2024 Annual Water Quality Report

Cedar Rapids Linn County Solid Waste Agency Site 1
Cedar Rapids, Iowa

January 2025

IDNR Permit No. 57-SDP-03-75C
Project I.D.: 24C034.00

Solving our clients' toughest science and engineering challenges.

411 6th Avenue SE, Suite 400
Cedar Rapids, IA 52401
(319) 365-9565
foth.com

January 30, 2024

Brian Rath, P.E.
Iowa Department of Natural Resources
6200 Park Avenue, Suite 200
Des Moines, IA 50321

Re: 2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
2250 A Street SW, Cedar Rapids, IA 52404
Permit No. 57-SDP-03-75C

Dear Brian Rath:

On behalf of the Cedar Rapids Linn County Solid Waste Agency (Agency), Foth Infrastructure & Environment, LLC (Foth) is submitting the 2024 Annual Water Quality Report (AWQR) as required by Iowa Department of Natural Resources (IDNR) Permit No. 57-SDP-03-75C. The contents of this report are intended to satisfy the requirements of 567 Iowa Administrative Code (IAC) 113.10(5)c(1) and 113.10(6)d(1), related to recordkeeping and notification, and annual reporting requirements listed in IAC 113.10(10) (effective 12/10/07).

This report was prepared using the IDNR AWQR report format required by Permit Amendment #14. The Monitoring Well Maintenance and Performance Reevaluation Schedule and Summary, Leachate Control System Performance Evaluation Report (LCSPER), and Methane Monitoring Report (MMR) have been incorporated directly into the AWQR as Tables 3, 4, 11, 12, and 13.

Thank you for your attention to this matter. Please contact us at our numbers listed below if you have any questions or need additional information.

Sincerely,

Foth Infrastructure & Environment, LLC

Hannah Dubbs
Project Environmental Scientist
(319) 297-2055

Gina Wilming
Senior Project Manager
(319) 297-2065

2024 Annual Water Quality Report

Distribution

No. of Copies	Sent To
1	Brian Rath, P.E. Iowa Department of Natural Resources 6200 Park Avenue, Suite 200 Des Moines, IA 50321
1	Garrett Prestegard or Karmin McShane Cedar Rapids Linn County Solid Waste Agency 1954 County Home Road Marion, IA 52302
1	Field Office #1 Iowa Department of Natural Resources 909 West Main, Suite 4 Manchester, IA 52057

2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1

Project ID: 24C034.00

Prepared for

Cedar Rapids Linn County Solid Waste Agency

1954 County Home Road
Marion, IA 52302

Prepared by

Foth Infrastructure & Environment, LLC

January 2025

411 6th Avenue SSE, Suite 400 • Cedar Rapids, IA 52401 • (319) 365-9565
foth.com

2024 Annual Water Quality Report

Table of Contents

Tables

Figures

Appendices

Certifications

I hereby certify that this document was prepared by me or under my direct supervision and that I am a qualified groundwater scientist as defined in 567 Iowa Administrative Code 113.10(1)d.

1/30/2025
Gina Wilming (date)
Iowa G.W.P. No. 2099.

My certification renewal date is
December 31, 2025.

For the purposes of 567 Iowa Administrative Code 113.10(1)d, a "qualified groundwater scientist" means a scientist or an engineer who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields demonstrated by state registration, professional certifications, or completion of accredited university programs that enable that individual to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.

LICENSED PROFESSIONAL ENGINEER BRIAN K. HARTHUN 14049 IOWA	I hereby certify that the Leachate Control System Performance Evaluation Report and Methane Monitoring Report were prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. 1/30/2025 Brian K. Harthun (date) Iowa P.E. No. 14049 My license renewal date is December 31, 2026. Pages or sheets covered by this seal: Tables 11, 12, and 13

List of Abbreviations, Acronyms, and Symbols

ACM	assessment of corrective measures
Agency	Cedar Rapids Linn County Solid Waste Agency
AWQR	Annual Water Quality Report
bTOC	below top of casing
cm/s	centimeters per second
ft/ft	feet per foot
Foth	Foth Infrastructure & Environment, LLC
GWPS	groundwater protection standard
HMSP	Hydrologic Monitoring System Plan
HRG	Howard R. Green Company
IAC	Iowa Administrative Code
IDNR	Iowa Department of Natural Resources
LCSPER	Leachate Control System Performance Evaluation Report
LEL	Lower Explosive Limit
mg/L	milligrams per liter
MMR	Methane Monitoring Report
MNA	monitored natural attenuation
SSL	statistically significant level (over GWPS)
TSS	total suspended solids

1. Executive Summary

Foth Infrastructure & Environment, LLC (Foth) was retained by the Cedar Rapids Linn County Solid Waste Agency (Agency) to provide an annual report summarizing the groundwater quality and hydrogeologic monitoring activities at Site 1 during 2024. This 2024 Annual Water Quality Report (AWQR) was prepared using the Iowa Department of Natural Resources (IDNR) AWQR report format required by Permit Amendment #14. The Monitoring Well Maintenance and Performance Reevaluation Schedule and Summary, Leachate Control System Performance Evaluation Report (LCSPER), and Methane Monitoring Report (MMR) have been incorporated directly into the AWQR as Tables 3, 4, 11, 12, and 13. In addition, the 5-year review of plume stability and timeframes for remedy completion were conducted as part of this 2024 AWQR.

1.1 Period of Report Coverage

This AWQR presents an evaluation of the groundwater, methane monitoring, and leachate collection system monitoring, maintenance, and performance activities conducted at Site 1 for the period of January 1 through December 31, 2024.

1.2 Report Priority

No actions or activities are on hold due to the completion of IDNR review or comment. There are no changes to the Hydrologic Monitoring System Plan (HMSP) requested in this report.

As discussed in Section 2.3, a meeting was held between IDNR, the Agency, and Foth on August 28, 2024 to review the history of groundwater corrective action and to discuss upcoming changes to the approved remedy associated with the nearby industrial pumping center discontinuing alluvial well pumping and installing a horizontal collector well to replace the alluvial wells. In addition, the status of the groundwater plumes at Site 1 was reviewed. In the email dated January 3, 2025 (IDNR, 2025), IDNR noted that expanded modeling updates may not clarify the capture zone for the new horizontal collector well and requested development of a “plan for monitoring groundwater levels in a select set of monitoring wells with the goal of obtaining field data to visualize actual groundwater flow and compare to assumed flow from the current corrective action.” As requested, the plan will be submitted by March 3, 2025.

1.3 Site Status and Applicable Rules

Site 1 is a closed, unlined landfill located within the city limits of Cedar Rapids, Iowa. The facility is situated in Sections 27 and 34, Township 83 North, Range 7 West, in Linn County, Iowa. The landfill is situated in a former limestone and dolomite quarry adjacent to a horseshoe bend in the Cedar River. Land use in the area is urban, with nearby industrial, commercial, and residential uses. A site map depicting the characteristics of the landfill and surrounding vicinity is provided in Figure 1.

The facility includes about 95 acres, of which 76 acres have received fill materials. The waste is estimated to be 200 feet in thickness over the central portions of the disposal area and about 25 to 40 feet in thickness along its margins. The facility ceased operation on July 29, 2006. The rules in effect at the time of closure [567 Iowa Administrative Code (IAC) 113.26] were established on January 15, 2003. The closure permit (57-SDP-03-75C) was issued on September 21, 2006, and expires on September 21, 2036.

Groundwater monitoring and reporting activities were conducted in accordance with Special Provision X.6 of the closure permit (including subsequent permit amendments) and a combination of the rules in effect at the time of closure [567 IAC 113.26 (effective 1/15/03)] and the current rules (567 IAC 113.10). Details regarding the statistical methods utilized are included with the statistical reports in Appendix B. In accordance with Permit Amendment #4 and the variance granted on March 26, 2010, monitoring well maintenance and performance was conducted in accordance with 567 IAC 113.10(2)f rather than the rules in effect at the time of closure.

Methane monitoring and reporting activities were conducted in accordance with Special Provision X.8 and 567 IAC 113.26(15)b (effective 1/15/03).

The leachate collection system monitoring, maintenance, and performance activities were conducted in accordance with Special Provision X.10 and 567 IAC 113.26(8)d (effective 1/15/03).

2. Site Background

2.1 Site History

Site 1 began operations in 1965 as an unlined landfill and was first permitted by the State of Iowa in 1975. From 1975 to July 29, 2006, the landfill operated under Sanitary Disposal Project Permit No. 57-SDP-03-75P and received municipal waste generated from residential, commercial, and industrial generators located primarily in Cedar Rapids and Linn County.

The facility ceased operation on July 29, 2006 and construction of the final cap was completed in 2007. The closure permit (57-SDP-03-75C) was issued on September 21, 2006.

In June 2008, the landfill reopened for disposal of disaster debris from the 2008 flooding (in accordance with Permit Amendment #2) and continued to accept debris until Spring 2013 (in accordance with Permit Amendment #5). The facility ceased operation in Spring 2013 and began reconstruction of the final cover. Construction of the final cover was completed in August 2013 and incorporated into the closure permit through Permit Amendment #9.

2.2 Geology and Hydrogeology

The site-specific geologic and hydrogeologic characteristics presented in this section are summarized from the November 1992 *Hydrogeologic Investigation Report* submitted by Howard R. Green Company (HRG) (HRG, 1992).

The Site 1 landfill is situated within a limestone and dolomite quarry known as the former Otis quarry. The landfill is bounded to the north and east by the Cedar River and to the south and west by residential and commercial areas. The Otis quarry was developed in the Devonian age Otis Formation which is primarily composed of dolomite. Overburden at the landfill consists of quarry spoils, refuse, imported earth cover, Pleistocene glacial drift deposits, and Quaternary alluvium/colluvium.

The surficial stratigraphy is dominated by up to 47 feet of Cedar River alluvium. Along the eastern and northern landfill perimeters (closest to the Cedar River), alluvium directly overlies bedrock. In contrast, glacial till separates overlying alluvium from underlying pre-Wisconsin silt and sand and bedrock along the southern and western perimeters. The alluvium predominantly consists of silt and sand; however, localized zones of clay-rich alluvium are noted. A sand interval of up to 22 feet in thickness occurs in the alluvial sequence along the eastern perimeter of the landfill. Localized, thin remnants of sand-rich glacial till are also noted and appear to attain a maximum thickness of approximately 17 feet in the west-central area of the landfill.

Composed primarily of limestone and dolomite, the bedrock surface spans the Silurian age Gower Formation, the Coggon Member of the Devonian age Otis Formation, the Cedar Rapids Member of the Devonian age Otis Formation, and the Kenwood Member of the Devonian age Wapsipinicon Formation (from oldest to most recent). In the south-central portion of the landfill, where quarry excavations were the deepest, the bedrock surface consists of the Coggon Member of the Devonian age Otis Formation. The Cedar Rapids Member of the Devonian age Otis Formation is encountered in areas of the landfill where pre-landfill quarry excavations were not as deep. The Devonian age Wapsipinicon Formation is present along the landfill periphery in the south-central and north-central portions of the facility.

Two aquifers exist at Site 1: the shallow Cedar River alluvium aquifer and the Devonian-Silurian bedrock aquifer. The two aquifers exist under unconfined conditions and are hydraulically connected forming a single aquifer system which is in hydraulic connection with the Cedar River. During the hydrogeologic

investigation, the water table was observed within the alluvium at only two well locations: MW-17 and MW-34. Generally, the alluvial sequence is considered relatively impermeable; however, where saturated, this sequence is hydraulically connected to the underlying bedrock aquifer and the Cedar River.

In all other locations, the water table was encountered within the bedrock aquifer, most typically in the weathered and fractured Coggon Member of the Otis Formation. Hydraulic conductivity typically ranged from $2.7x10^{-8}$ to $6.6x10^{-5}$ centimeters per second (cm/s) where the Coggon Member was not fractured or highly weathered. A hydraulic conductivity range on the order of 10^{-2} cm/s or greater was inferred for the weathered and fractured Coggon Member of the Otis Formation. Hydraulic conductivity ranged from $8.1x10^{-8}$ to $8.1x10^{-7}$ cm/s and $4.0x10^{-7}$ to $2.3x10^{-3}$ cm/s for the Cedar Rapids Member of the Otis Formation and the Silurian age Gower Formation, respectively. Again, values for weathered or fractured zones in these formations are presumed to be on the order of 10^{-2} cm/s or greater.

Groundwater levels measured in monitoring wells installed around the periphery of the landfill are consistent with the regional north-northeast groundwater flow direction toward the Cedar River. The horizontal water table gradient varied from 0.0015 feet per foot (ft/ft) to 0.1671 ft/ft, with an average gradient of 0.0281 ft/ft. The vertical recharge gradient ranged from 0.0007 ft/ft to 0.0447 ft/ft, with an average recharge gradient of 0.0112 ft/ft. The vertical discharge gradient ranged from 0.0005 to 0.0075 ft/ft, with an average discharge gradient of 0.0033 ft/ft. The horizontal gradient is approximately 2.5 times greater than the vertical recharge gradient and 8.5 times greater than the vertical discharge gradient. On average, groundwater flow is dominated by the horizontal flow component.

2.3 History of Groundwater Corrective Action

Groundwater quality assessments were conducted during 1998-2001 in response to a release of leachate. The leachate release was characterized by concentrations above the applicable health-based risk levels for 1,2-dichloroethane, 1,2-dichloropropane, dissolved arsenic, benzene, cadmium, cis-1,2-dichloroethene, nitrogen as ammonia, tetrachloroethene, trichloroethene, vinyl chloride, and dissolved zinc in the upper bedrock system and 1,2-dichloroethane, dissolved arsenic, benzene, tetrachloroethene, nitrogen as ammonia, vinyl chloride, and dissolved zinc in the deeper bedrock system. The groundwater quality assessment work was conducted in accordance with the rules in effect at the time [IAC 103.2(9)]. The reports summarizing the previously approved groundwater assessments are:

- *Groundwater Quality Assessment: Work Plan* (HRG, 1998)
- *Groundwater Quality Assessment: Final Phase I Report* (HRG, 1999)
- *Phase II Groundwater Quality Assessment Expanded Risk Assessment Documentation* (HRG, 2000)
- *Phase II Groundwater Quality Assessment Report, Volumes I & II* (HRG, 2001)

In accordance with the rules in effect at the time [IAC 103.2(9)], the selected remedy was outlined in the Risk Management Plan and Corrective Action Plan (HRG, 2001) which was approved by the IDNR and incorporated into the closure permit through Special Provision X.7. To date, remedy implementation has been conducted in accordance with the Risk Management Plan and Corrective Action Plan (HRG, 2001).

Prior to August 2008, semiannual groundwater sampling for the routine and supplemental indicator parameters was conducted in accordance with the previous rule revisions listed in IAC 113.26(15) (effective 1/15/03) and the Risk Management Plan and Corrective Action Plan (HRG, 2001). In accordance with the 2007 rule revisions, assessment monitoring for the Appendix II constituents [IAC 113.10(6)] was initiated in August 2008 due to indicator parameter control limit exceedances identified after the March 2008 sampling event (Foth, 2008). The initial Appendix II statistical evaluation identified statistically significant levels (SSLs) over the groundwater protection standards (GWPS) in the upper bedrock system (Foth, 2010a). In lieu of initiating assessment of corrective measures (ACM) under IAC 113.10(7), the *2010 AWQR* and *March 2011 Semiannual Report* (Foth, 2010b and 2011) requested IDNR review of the previous groundwater quality assessment activities and continued implementation of the Risk Management Plan and Corrective Action Plan.

In the letter dated June 27, 2011 (IDNR, 2011), IDNR provided written concurrence that the requirements outlined in IAC 113.10(7) do not need to be repeated when previously identified contaminants are found to exceed a GWPS. However, IDNR required the Agency to conduct additional delineation activities and to submit a schedule for completing the existing remedy which demonstrates how and/or when the existing remedy will meet the following performance objectives: 1) be protective of human health and the environment, 2) attain the GWPS, 3) control the source of the release or eliminate to the maximum extent practicable to prevent further releases, and 4) comply with the standards for management of wastes.

An *Assessment Work Plan* (Foth, 2012) was prepared to outline additional activities for expansion of the background data set, for addressing horizontal and vertical delineation, and a schedule for completing a comprehensive data review (i.e., trend analysis, plume stability) to evaluate the existing remedy and determine a schedule for achieving compliance with the performance objectives. In accordance with the approved *Assessment Work Plan* (Foth, 2012), additional background and delineation monitoring wells were installed and sampled between May 2013 and September 2014. An evaluation of the effectiveness of the existing remedy and compliance with the performance requirements was submitted with the *2014 AWQR* (Foth, 2015a). The conclusions of the data evaluation recommended continued implementation of the existing remedy as outlined in the Risk Management Plan and Corrective Action Plan (HRG, 2001).

In the March 10, 2015 comment letter (IDNR, 2015), the IDNR did not yet concur with the recommendation to continue implementation of the existing remedy. IDNR requested further plume delineation but indicated that if low-flow sampling were initiated, then additional plume delineation activities could be deferred until analysis of the new data is complete.

In accordance with the *Response to DNR Comments dated March 10, 2015* letter (Foth, 2015b), a low-flow sampling and analysis program was implemented between Spring 2015 and Fall 2016. Reevaluation of the background and downgradient data sets based on the sampling methodology change was conducted during the Fall 2016 statistical evaluation. Recommendations were provided in the *Fall 2016 Statistical Notifications* letter (Foth, 2016a) and the *2016 AWQR* (Foth, 2016b). IDNR approved the recommended background and downgradient data set adjustments in the letter dated November 20, 2017 (IDNR, 2017).

Upon completion of the low-flow sampling and analysis program and reevaluation of the background and downgradient data sets, two-dimensional plume stability models were utilized to evaluate horizontal and vertical plume delineation (Foth, 2017). The results indicated that compliance with the horizontal and vertical delineation requirements have been met for nickel, thallium, and vinyl chloride. However, compliance has not been met for arsenic and cobalt. Two additional well nests (MW-108A/B and MW-109A/B) were recommended in a continued effort to meet the delineation requirements for arsenic and cobalt.

In accordance with the *Plume Delineation [IAC 113.10(6)g(1)1]* letter (Foth, 2017), upper and deeper bedrock delineation monitoring wells MW-108A, MW-108B, and MW-109A, and MW-109B were installed in November 2017 to horizontally and vertically delineate the arsenic and cobalt groundwater plumes in accordance with IAC 113.10(6)g(1)1. Delineation wells MW-108A, MW-108B, MW-109A, and MW-109B were installed in November 2017. Five rounds of baseline delineation monitoring for the Appendix I list were conducted between November 2017 and November 2018 at these locations.

In the letter dated November 20, 2017 (IDNR, 2017), IDNR commented that reevaluation of the existing source control and remedy should be conducted after review of the 2017 AWQR and a meeting with IDNR, the Agency, and the Agency's consultant has been completed. A meeting was held between IDNR, the Agency, and Foth on April 19, 2018. The meeting included a history of groundwater compliance activities at Site 1, an update on delineation progress, and discussions regarding property owner notification, remedy evaluation and implementation, and whether any post-closure care reductions could be considered (i.e., sampling optimization).

Based on the discussions and verbal approvals at the April 19, 2018 meeting, a reevaluation of the existing remedy and source control was provided in the *2018 AWQR* (Foth, 2019a). No additional delineation activities were recommended and IDNR approval to finalize completion of delineation

activities at Site 1 was requested. Reevaluation of exposure pathways and receptors did not identify any new receptors and indicated that the previous risk assessment remained applicable. Reevaluation of source control suggested that the identified decrease in the number of contaminants comprising the groundwater plume along with steady to declining groundwater concentrations indicated that the leachate release is under control. In addition, steady to declining leachate elevations with no apparent correlation with precipitation supported that construction of the final cover and additional storm water controls has been effective in reducing infiltration. Based on the reevaluation results, IDNR approval to continue implementation of the existing remedy in accordance with the Risk Management Plan (HRG, 2001) was requested, along with IDNR approval of the revised remedy implementation schedule based on a monitored natural attenuation (MNA) remedy as outlined in Section 4.3 of the *2018 AWQR* (Foth, 2019a).

In the letter dated April 16, 2019, IDNR approved the revised remedy implementation schedule as shown in Section 4.3 of the *2018 AWQR* (Foth, 2019a), except for removal of MW-109B from the groundwater monitoring network (IDNR, 2019). MW-109B has been retained in the monitoring network.

In 2019, the Agency elected to hold a Public Information Meeting to provide the public an opportunity to learn more about the closed Site 1 landfill and to re-notify interested parties and property owners that directly overlie the groundwater plume. The 2019 notifications were a continuation of the historical public notification efforts regarding groundwater quality near the closed Site 1 landfill. Initial public notification was conducted through a press conference and two public meetings held in February 1998. The Agency elected to re-notify property owners that directly overlie the groundwater plume due to the length of time that had passed since the initial 1998 notifications and to be transparent. The Public Informational Meeting was held on October 17, 2019 at the National Czech & Slovak Museum & Library from 5:30 – 7:30 PM. IDNR was provided notice of the Public Informational Meeting, a figure depicting the overall extent of the groundwater plume at Site 1, a listing of property owners that were notified, and copies of the notification letters in the submittal dated October 7, 2019 (Foth, 2019b).

In July 2020, the IDNR approved the spatial and frequency optimizations detailed in “Site 1 Monitoring Optimization” (Foth, 2020b) in the Permit Amendment #16 (IDNR, 2020). The spatial optimization recommendations were initiated in Fall 2020, and the frequency optimizations were initiated in Spring 2021. The Monitoring Program Implementation Schedule provided in Table 2 of the memorandum includes the approved spatial and frequency optimizations.

On August 28, 2024, a meeting was held between IDNR, the Agency, and Foth to review the history of groundwater corrective action and to discuss upcoming changes to the approved remedy associated with the nearby industrial pumping center discontinuing alluvial well pumping and installing a horizontal collector well to replace the alluvial wells. In addition, the status of the groundwater plumes at Site 1 was reviewed. In the email dated January 3, 2025 (IDNR, 2025), IDNR noted that expanded modeling updates may not clarify the capture zone for the new horizontal collector well and requested development of a “plan for monitoring groundwater levels in a select set of monitoring wells with the goal of obtaining field data to visualize actual groundwater flow and compare to assumed flow from the current corrective action.” As requested, the plan will be submitted by March 3, 2025.

3. Quality Assurance/Quality Control Summary

In 2024, field blanks, field duplicates, and trip blanks were collected and analyzed at the frequencies listed in the *Hydrologic Monitoring System Plan* (HRG, 2006). Data validation reports detailing any resampling, data qualifiers added per data validation, and an overall assessment of the data are included in Appendix A.

In 2024, the overall data assessments indicated that method criteria, precision, accuracy, representativeness, comparability, completeness, and suitability for intended use were acceptable. In 2024, resampling was not conducted; however, it was considered based on the data quality for the Spring and Fall 2024 sampling events.

In Spring and Fall 2024, MW-37 was extracted outside the 7-day holding time, but analyzed within the 40-day holding time for pesticide analysis. In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020), when pesticide samples are extracted outside the 7-day hold time and analyzed outside or within the 40-day holding time, detected pesticides are qualified J and non-detects are rejected (qualified R). Professional judgment was utilized not to qualify the non-detect pesticide results in MW-37 since the extraction hold time was only slightly exceeded (i.e., one hour and fifty-eight minutes). Resampling was not recommended since MW-37 is a background monitoring well and background monitoring for pesticides is not required for compliance with the project requirements.

In Fall 2024, MW-26 and FB-2 were extracted outside the 7-day holding time, but analyzed within the 40-day holding time for pesticide analysis. In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020), when pesticide samples are extracted outside the 7-day hold time and analyzed outside or within the 40-day holding time, detected pesticides are qualified J and non-detects are rejected (qualified R). Professional judgment was utilized not to qualify the non-detect alpha-BHC and heptachlor results in MW-26 and the non-detect pesticide results in FB-2 since the extraction holding time for pesticides were only slightly exceeded (i.e., 1.5 hours and 3 hours, respectively). In addition, since FB-2 is a field blank quality control sample, non-detect results are expected. At MW-26, resampling was not recommended since alpha-BHC has not been detected at MW-26 since 2013, and heptachlor has not been detected at MW-26 since 2019. Resampling was not recommended for FB-2 since it is a quality control sample.

Overall, the 2024 data was found to be of good quality and suitable for the intended use.

3.1 Sample Turbidity

Low-flow and no purge sampling techniques were continued in 2024. The sampling methodology utilized was consistent with minimizing turbidity and total suspended solids (TSS) in the groundwater samples.

In 2024, no data set adjustments were recommended based on sample turbidity in background. Upper bedrock background wells MW-37 and MW-101A and deeper bedrock background wells MW-38 and MW-101B had TSS concentrations below the 5 milligrams per liter (mg/L) level for satisfactory sample quality in 2024. The 2024 background review indicated that turbidity is not impacting the representativeness of the background data set, and the 2024 background data is suitable for use in interwell statistical comparisons.

Several downgradient and delineation monitoring wells had TSS concentrations greater than the 5 mg/L level for satisfactory sample quality. The IDNR noted in the Unnumbered Permit Amendment (IDNR, 2014) that a TSS level of 5 mg/L may be unattainable and concluded that if extra measures were conducted, the IDNR would consider higher levels for TSS as satisfactory. No additional actions or removal of data were recommended for the downgradient and delineation monitoring wells in 2024. The following additional actions have been conducted to address turbidity: well redevelopment was conducted at wells with elevated TSS concentrations in August 2015 and low-flow or no purge sampling techniques have been utilized since the March 2015 sampling event.

Historical high-volume data at the downgradient wells continued to be reviewed on a case-by-case basis in 2024 to determine whether adjustments were recommended based on the change in sampling technique from high volume to low-flow methods. IDNR concurred with the strategy to evaluate downgradient wells on a case-by-case basis given the large number of wells and volume of data in the letter dated November 20, 2017 (IDNR, 2017). No data set adjustments were recommended for the downgradient wells in 2024.

4. Five-Year Plume Stability Review

In accordance with the approved remedy implementation schedule, most recently outlined in the *2023 AWQR* (Foth, 2024), a five-year review of plume stability and timeframes for remedy completion was conducted as part of this 2024 AWQR to quantitatively assess the progress of the MNA remedy for the

groundwater plumes at Site 1 and to reevaluate plume characteristics over time. Plume stability analysis was initially conducted for Site 1 with the *2014 AWQR* (Foth, 2015a), and the first five-year MNA review was submitted with the *2019 AWQR* (Foth, 2020a). This five-year review updates the 2014 and 2019 plume stability results with five years of data collected from 2020 through 2024. A memorandum with detailed results and descriptions of the modeling and statistical methods is included in Appendix C. Plume stability modeling was chosen for this application since 1) the model allows for an integrated analysis of the entire contaminant plumes, as opposed to multiple evaluations being performed at individual monitoring wells; 2) the analysis offers a quantitative, rather than qualitative, approach to evaluating plume characteristics and trends; and 3) the analysis considers the contaminant plume over time, rather than only the last sampling event(s).

Note that the terms “shallow aquifer” and “upper bedrock aquifer” are synonymous. The plume stability analysis has consistently referred to the uppermost aquifer as the shallow aquifer since the geologic conditions are a mixture of alluvial and bedrock deposits. For consistency with the original reports, the AWQR report and tables has referred to the uppermost aquifer as the upper bedrock aquifer (nomenclature occurred since most of the original wells installed were in bedrock).

As further discussed below, the five-year review has indicated progress with the MNA remedy. Based on the plume metric trend results, the plume areas for arsenic, cobalt, thallium, and vinyl chloride are either stable or shrinking, except for cobalt in the deeper bedrock aquifer. For the shallow aquifer, in addition to the stable or shirking plume metric trends, semiannual statistical evaluations over the past five years indicated continued improvements in the corrective action and delineation monitoring programs. In accordance with IAC 113.10(9)e(2), four analyte/well pairs (i.e., arsenic in MW-20 and cobalt in AW-5, MW-27, and MW-35) exited correction action during the 2020-2024 review cycle. In addition, compliance with the GWPS was newly achieved for thallium in MW-20 and cobalt in MW-105A in Fall 2024; therefore, thallium in MW-20 and cobalt in MW-105A will return to assessment constituents in 2027 as long as concentrations remain statistically below the GWPS during interim statistical evaluations. For the remaining corrective action constituents listed in Table 1 of the memorandum in Appendix C, statistically significant decreasing trends were identified for arsenic in AW-1, MW-12, MW-17, MW-24, MW-30, MW-34, and MW-106A; thallium in AW-2; and vinyl chloride in MW-34.

Continued implementation of the MNA remedy is recommended.

4.1 Interpolation Data and Assumptions

Plume stability was evaluated for arsenic, cobalt, thallium, and vinyl chloride. While nickel was included in the 2014 and 2019 plume stability evaluations (Foth, 2015a and 2020a), it was not included in the current evaluation since nickel exited corrective action before 2020 and no new SSLs over the GWPS were identified for nickel between 2020 and 2024. No new corrective action constituents were added from 2020 to 2024.

Two-dimensional interpolations were developed for the annual arsenic, cobalt, thallium, and vinyl chloride data collected between August 2008 and August 2024, providing a consistent data set as a basis for evaluating groundwater plume changes over time. Two-dimensional interpolations were performed separately for the upper and deeper bedrock aquifers since the GWPS differs between the two aquifers, specifically for cobalt. Since optimized groundwater monitoring frequencies were implemented starting in 2021, this five-year review cycle was based on interpolations and trends from annual monitoring events. The 2014 and 2019 plume stability evaluations (Foth, 2015a and 2020a) utilized interpolations and trends from semiannual events. In addition, groundwater monitoring wells removed from the monitoring network due to spatial optimization (i.e., MW-27, MW-29, MW-102A, MW-103A, MW-103C, and MW-108A) and abandoned well AW-7 were removed from the current plume stability analysis.

Since a consistent data set is required to quantitatively evaluate the plume as a whole, data from quarterly or spring semiannual sampling events were not utilized since the results from quarterly events and spring semiannual sampling events after optimization was initiated were limited to a few wells and were not inclusive of all the wells within the plume bounds.

Where missing data occurred due to inaccessible wells or time periods prior to well installation, concentration estimates interpolated by the EVS modeling software were utilized in order to minimize trend artifacts in the plume stability modeling.

Background cobalt concentrations in the upper bedrock data set exceeded the IAC 567 Chapter 137 Statewide Standard. Therefore, pursuant to IAC 113.10(6)h, the GWPS for cobalt was taken as background (0.008 mg/L). Additional details regarding the upper bedrock cobalt GWPS as background are provided in the statistical reports in Appendix B. Note that cobalt concentrations in deeper bedrock have not exceeded the IAC 567 Chapter 137 Statewide Standard. Therefore, the deeper bedrock cobalt GWPS remained the IAC 567 Chapter 137 Statewide Standard (i.e., 0.0021 mg/L).

4.2 Interpolation Results and Plume Trends

Spatial interpolations of the modeled results for arsenic, cobalt, thallium, and vinyl chloride are depicted in Figures 1A through 4D of the plume stability memorandum in Appendix C. Due to the different GWPS values for cobalt in upper and deeper bedrock, the spatial interpolations and trends were evaluated separately for upper and deeper bedrock, as opposed to one three-dimensional model for each parameter. On the spatial interpolation figures, yellow shading indicates concentrations above the GWPS, green shading indicates concentrations above background (and below the GWPS), and blue shading indicates concentrations below background or non-detect.

Based on these spatial interpolations, two-dimensional plume metrics were calculated and tested for trends. These metrics included planar area exceeding the GWPS, average concentration, maximum concentration, and center of mass. Plume metric trends were evaluated for the overall data (i.e., 2008-2024) and for the last five years (i.e., 2020-2024) to evaluate the plume metrics since the last update. The results of the trend tests on the plume metrics are provided In Tables 2 and 3 and Figures 5 and 6 of the plume stability memorandum in Appendix C and summarized in the tables below.

Summary of Spatial Plume Metric Trend Test Results
All Historical Data (2008-2024)

Analyte	Area Exceeding GWPS	Average Concentration	Maximum Concentration	Mass Center X-Coordinate	Mass Center Y-Coordinate
Shallow Aquifer					
Arsenic	No Trend	No Trend	Increasing	No Trend	Increasing
Cobalt	Decreasing	No Trend	No Trend	No Trend	Increasing
Thallium	No Trend	No Trend	Decreasing	No Trend	No Trend
Vinyl Chloride	Decreasing	Decreasing	Decreasing	Increasing	Decreasing
Deeper Bedrock Aquifer					
Arsenic	No Trend	No Trend	No Trend	Increasing	No Trend
Cobalt	Increasing	Increasing	Increasing	Decreasing	Increasing
Thallium [(1)]	No Trend	No Trend	Increasing	No Trend	No Trend
Vinyl Chloride	No Trend	No Trend	Decreasing	N/A	N/A

N/A = not applicable

Summary of Spatial Plume Metric Trend Test Results
Recent Five-Year Data (2020-2024)

Analyte	Area Exceeding GWPS	Average Concentration	Maximum Concentration	Mass Center X-Coordinate	Mass Center Y-Coordinate
Shallow Aquifer					
Arsenic	No Trend	No Trend	No Trend	No Trend	No Trend
Cobalt	Decreasing	No Trend	No Trend	No Trend	No Trend
Thallium	No Trend	No Trend	No Trend	No Trend	No Trend
Vinyl Chloride	No Trend	No Trend	No Trend	No Trend	No Trend
Deeper Bedrock Aquifer					
Arsenic	No Trend	No Trend	No Trend	No Trend	No Trend
Cobalt	No Trend	No Trend	No Trend	No Trend	No Trend
Thallium	No Trend	No Trend	No Trend	No Trend	No Trend
Vinyl Chloride	No Trend	No Trend	No Trend	N/A	N/A

N/A = not applicable

4.2.1 Arsenic

Arsenic is and has been the most widespread corrective action constituent at Site 1. Arsenic concentrations exceeding the GWPS occurred over a broad area in the shallow aquifer and at three discrete locations in the deeper bedrock aquifer. Based on the plume metric trend results, the arsenic plume area is stable.

In the shallow aquifer, the area exceeding the GWPS has fluctuated from 2008-2024. In 2008, 127 acres exceeded the GWPS for arsenic in the shallow aquifer. This metric fluctuated and increased to a maximum of 171 acres exceeding the GWPS in 2013. After 2013, area exceeding the GWPS began decreasing until 2019 and 2020, when area exceeding the GWPS was just under 100 acres. In 2021, a rebound occurred resulting in 149 acres exceeding the GWPS for arsenic in the shallow aquifer. Subsequently, area exceeding the GWPS began decreasing again with 110 acres exceeding the GWPS in 2024. While statistically significant decreasing trends were not identified for area exceeding the GWPS in the overall and recent five-year data, shorter-term decreases were visually identified in the 2013-2020 data and 2022-2024 data (i.e., after the rebound occurred in 2021).

An increasing trend was identified for maximum concentration in the shallow aquifer. This trend was primarily driven by the 2022-2024 increases in arsenic concentrations at MW-32, located near the southeastern part of Site 1. While increases were identified at MW-32, the remaining shallow aquifer wells generally had stable or decreasing arsenic trends resulting in the fluctuating then decreasing area exceeding the GWPS from 2022-2024. The increases at MW-32 impacted the plume maximum but not the lateral plume size.

In the deeper aquifer, highest concentrations are located at MW-14 in the north-central part of Site 1, MW-22 in the northwestern area, and MW-36 in the southeastern area. Consistent with the 2019 evaluation (Foth, 2020a), no trends were identified for area exceeding the GWPS, average concentration, and maximum concentration. On average, the area exceeding the GWPS for arsenic from 2008-2024 was 25 acres. Over the past five years, the deeper bedrock arsenic plume appears relatively stable except for MW-14. The lateral extent of arsenic concentrations exceeding the GWPS at MW-14 appears smaller than the 2008-2019 extent at MW-14.

The trends in the two-dimensional center of mass for arsenic were primarily due to relative concentration decreases, not increases. The slight northward migration in the center of mass for arsenic in the shallow aquifer occurred due to decreasing concentrations near the southern end of Site 1 primarily between 2013 and 2020. While arsenic increases occurred from 2022-2024 at MW-32, near the southeastern part

of Site 1, decreases in other wells in the southern part of Site 1 result in an overall northward migration in the center of mass. For the deeper bedrock aquifer, the slight westward shift in the overall data for center of mass is likely due to decreases at MW-14.

4.2.2 Cobalt

Cobalt concentrations exceeding the GWPS primarily occurred along the eastern side of Site 1 in the shallow and deeper bedrock aquifers.

For the shallow aquifer, a decreasing trend was identified for area exceeding the GWPS and no trends were identified for average and maximum concentration for cobalt in the overall and recent five-year data. The only change from the 2019 evaluation (Foth, 2020a) was that no trend was previously identified for area exceeding the GWPS and the current evaluation indicates a decreasing trend. Cobalt in the shallow aquifer decreased from a maximum of 75 acres exceeding the GWPS in 2010 to 5.4 acres exceeding the GWPS in 2024. The trends for two-dimensional center of mass indicated a northward shift in the overall data and no trend in the recent five-year data in the shallow aquifer. The northward migration in the center of mass for cobalt in the shallow aquifer in the overall data occurred due to decreasing concentrations near MW-105A in the southeast portion of Site 1.

In the deeper bedrock aquifer, increasing trends were identified for area exceeding the GWPS, average concentration, and maximum concentration. The area exceeding the GWPS increased from 6.5 acres in 2008 to 71 acres in 2020 and remained relatively stable from 2020-2024. The largest increases in area exceeding the GWPS occurred in 2010 and 2014. After 2014, the slope of the increasing trend is lower. For maximum concentration, the increasing trend was driven by two shifts in the data. The first shift occurred in 2010 when the maximum shifted from non-detect in 2008/2009 to the detected maximum of 0.0093 mg/L in 2010. Between 2010 and 2017, the plume maximum was driven by AW-6 which remained stable during this time. The second shift occurred in 2018 when the plume maximum switched to newly added delineation well MW-109B. MW-109B was installed in November 2017; therefore, the second shift identified may not be representative of an actual change in plume conditions, but rather, due to additional data from adding MW-109B to the monitoring network. From 2018-2024, the plume maximum remained driven by MW-109B which exhibited a stable to decreasing trend over that period. The trends for two-dimensional center of mass indicated a northwest shift in the overall data and no trend in the recent five-year data in the deeper bedrock aquifer. The northwest migration in the center of mass for cobalt in the deeper bedrock aquifer in the overall data occurred due to higher concentrations around MW-107B, MW-22, and CRL-9, located in the northwest portion of Site 1, which began to show more consistent GWPS exceedances after 2014.

The larger and increasing cobalt plume size in deeper bedrock is attributed to the smaller number of monitoring wells in deeper bedrock to better define plume limits, the lower GWPS value (i.e., the health-based GWPS of 0.0021 mg/L, whereas the upper bedrock background GWPS is 0.008 mg/L), and the higher concentrations at MW-105B and MW-109B. The average cobalt concentration for the deeper bedrock was 0.00068 mg/L in August 2024, which was lower than the health-based GWPS of 0.0021 mg/L.

4.2.3 Thallium

Thallium is a very small plume in both upper and deeper bedrock, with the August 2024 event indicating 0.4 acres exceeding the GWPS in the shallow aquifer and 1 acre exceeding the GWPS in deeper bedrock aquifer.

For the overall data in the shallow aquifer, no trends were identified for area exceeding the GWPS and average concentration, and a decreasing trend was identified for maximum concentration. No trends were identified in the recent five-year data in the shallow aquifer. The only change from the 2019 evaluation (Foth, 2020a) was that no trend was previously identified for maximum concentration, and the current evaluation indicates a decreasing trend. The shallow aquifer thallium plume has predominantly consisted of isolated exceedances limiting the overall lateral extent and resulting in area exceeding the

GWPS of less than 20 acres except for 2012 and 2014 (i.e., 28.5 and 31.6 acres, respectively). While no trend was identified for area exceeding the GWPS in the overall data, reductions in the thallium plume are evident after 2014. By 2024, only 0.4 acres exceed the GWPS for thallium in the shallow aquifer. Plume maximum concentrations were primarily driven by AW-2, MW-12, and MW-20. Thallium in AW-2, MW-12, and MW-20 had statistically significant decreasing trends from 2012/2013 to 2024 resulting in the decreasing trend for maximum concentration in the overall data for thallium in the shallow aquifer. No trends were identified for two-dimensional center of mass in the overall and recent five-year data.

For the overall data in the deeper bedrock aquifer, no trends were identified for area exceeding the GWPS and average concentration; however, an increasing trend was identified for maximum concentration. No trends were identified in the recent five-year data in the deeper bedrock aquifer. The only change from the 2019 evaluation (Foth, 2020a) was that a decreasing trend was previously identified for average concentration, and the current evaluation indicates no trend. GWPS exceedances for thallium in the deeper bedrock aquifer were limited to monitoring wells MW-107B and MW-109B. Therefore, the area exceeding the GWPS has remained less than 6 acres from 2008 to 2024. Monitoring was initiated in 2013 at MW-107B and in 2018 in MW-109B. Similar to cobalt in the deeper bedrock aquifer, the increasing trend identified for thallium in the deeper bedrock aquifer is not likely representative of an actual change in plume conditions, but rather, due to additional data from adding delineation wells MW-107B and MW-109B to the monitoring network. No trends were identified for two-dimensional center of mass in the overall and recent five-year data.

4.2.4 Vinyl Chloride

Vinyl chloride concentrations exceeding the GWPS in the shallow aquifer initially occurred in the central region of Site 1, extending from north to south along MW-12, MW-13, MW-16, MW-32, and MW-34. In the deeper bedrock aquifer, isolated individual GWPS exceedances occurred at MW-14 and MW-36 prior to 2014. Note that none of the historical GWPS exceedances for vinyl chloride in deeper bedrock were identified as SSLs over the GWPS using confidence interval comparisons during semiannual statistical evaluations.

For the overall data in the shallow aquifer, decreasing trends were identified for area exceeding the GWPS, average concentration, and maximum concentration. These plume metric trends for the overall data remain unchanged from the previous evaluation (Foth, 2020a). No trends were identified in the recent five-year data in the shallow aquifer. The vinyl chloride plume in the shallow aquifer has been decreasing over time. The area exceeding the GWPS has shrunk from over 20 acres to no area exceeding the GWPS in 2019 and 2024. Over the past five years, the vinyl chloride plume has been limited to GWPS exceedances at MW-34. Vinyl chloride concentrations rebounded at MW-34 in 2021 and then decreased again until concentrations were back below the GWPS in 2024. Due to that slight rebound at MW-34, no trends were identified in the recent five-year data. The trends for two-dimensional center of mass indicated a southwest shift in the overall data and no trend in the recent five-year data in the shallow aquifer. The southwest migration in the center of mass for vinyl chloride in the shallow aquifer in the overall data occurred due to decreases in MW-12, MW-13, and MW-16 concentrations more to the north.

As previously stated, SSLs over the GWPS have not been identified for vinyl chloride in the deeper bedrock aquifer. The evaluation of plume metric trends is not applicable. A few isolated individual GWPS exceedances occurred at MW-14 and MW-36, and these occurred before 2014.

4.3 Attenuation Rates

First order attenuation was assessed to evaluate progress with the attenuation model results and timeframes presented in the 2019 evaluation (Foth, 2020a) to ensure actual conditions are meeting the modeled expectations. Note that the 2019 plume stability evaluation (Foth, 2020a) evaluated first order attenuation rates based on semiannual monitoring events, while the current evaluation is limited to annual monitoring events. Despite the variation in methodology, comparisons were still made between the previous and current evaluations. However, consideration should be given to the potential impacts the methodology change may have had on results in addition to the data itself.

A comparison of the previous and current modeled first order attenuation rates is summarized below.

Comparison Summary of First Order Decay of Plume Maximum

Analyte	Previous Evaluation (2019)		Current Evaluation (2024)	
	First Order Decay Could Be Modeled	Estimated Year to Attain Compliance with the GWPS [1]	First Order Decay Could Be Modeled	Estimated Year to Attain Compliance with the GWPS [1]
Shallow Aquifer				
Arsenic	Yes	2084	No	No Attenuation
Cobalt	Yes	2055	Yes	2096
Thallium	Yes	2032	Yes	2029
Vinyl Chloride	Yes	2021	Yes	2027
Deeper Bedrock Aquifer				
Arsenic	No	No Attenuation	No	No Attenuation
Cobalt	No	No Attenuation	No	No Attenuation
Thallium	No	No Attenuation	No	No Attenuation
Vinyl Chloride	N/A	Currently Attained	N/A	Currently Attained

[1] The projected year of GWPS attainment is based on the first order attenuation curve found through exponential regression modeling. The previous evaluation utilized the August 2008 through August 2019 data (Foth, 2020a). The current evaluation utilized August 2008 through August 2024 data.

Note that Table 11 of the 2024 AWQR provides the projected year to completion for individual analyte/well pairs, as recommended in the *2018 AWQR* (Foth, 2019a). When evaluating remedy completion for Site 1 as a whole, the timeframes estimated for individual analyte/well pairs (listed in Table 11) and the timeframes estimated based on the plume maximum (listed in the table above) will be considered.

In the 2019 evaluation (Foth, 2020a), arsenic attenuation in the shallow aquifer was estimated to attain compliance with the GWPS in 2084. In the current evaluation, first order decay could not be modeled for the plume maximum for arsenic in the shallow aquifer. An increasing trend in maximum concentration was identified primarily due to 2022-2024 increases in arsenic concentrations at MW-32, located near the southeastern part of Site 1. As a result of the increasing trend in maximum concentration, attenuation could no longer be estimated. Note that while the increases at MW-32 impacted the plume maximum, lateral plume size (i.e., area exceeding the GWPS) did not increase.

First order attenuation was estimated for cobalt, thallium, and vinyl chloride plume maximum plume concentration in the shallow aquifer. The estimated time for attenuated concentrations to reach the GWPS are 2096 for cobalt, 2029 for thallium, and 2027 for vinyl chloride. For cobalt, the timeframe to attain compliance with the GWPS was longer than the 2019 evaluation (Foth, 2020a), which was dictated by elevated concentrations at MW-106A. While the overall cobalt plume is shrinking, the maximum at MW-106A is projected to take longer to attain compliance with the GWPS due to the elevated and not trending cobalt concentrations at this location. For thallium, the timeframe to attain compliance with the GWPS was three years shorter than the 2019 evaluation (Foth, 2020a) and driven by ongoing decreases at AW-2, MW-12, and MW-12. For vinyl chloride, the timeframe to attain compliance with the GWPS increased by six years compared to the 2019 evaluation (Foth, 2020a). The slightly extended timeframe occurred due to the rebound observed for vinyl chloride at MW-34 in 2021. Vinyl chloride in MW-34 decreased again after 2021 until concentrations reduced back below the GWPS in 2024.

Consistent with the 2019 evaluation (Foth, 2020a), no attenuation could be modeled for arsenic, cobalt, and thallium in the deeper bedrock aquifer. As a reminder, no plume exists for vinyl chloride in the deeper bedrock aquifer; SSLs over the GWPS have not been identified.

5. Conclusions and Recommendations

5.1 2024 Data Evaluation Summary

5.1.1 Groundwater

Based on the 2024 data, groundwater quality generally indicates stable or declining plumes. No new upper and deeper bedrock assessment monitoring locations, assessment constituents in corrective action monitoring locations, and assessment constituents in delineation monitoring locations triggered corrective action.

One corrective action constituent/well pair exited corrective action in 2024. In accordance with IAC 113.10(9)e(2), cobalt in MW-35 exited corrective action after the Fall 2024 statistical evaluation and will return to an assessment constituent in 2025. Since cobalt is the only corrective action constituent in MW-35, MW-35 will return to an assessment monitoring location in 2025. In addition, compliance with the GWPS was newly achieved for cobalt in MW-105A and thallium in MW-20 with the Fall 2024 statistical evaluation (Appendix B). As long as concentrations remain statistically below the GWPS during interim statistical evaluations, cobalt in MW-105A and thallium in MW-20 will have attained compliance the GWPS for three consecutive years after the Fall 2026 statistical evaluation and may return as assessment constituents in 2027.

Arsenic remains the most prevalent corrective action constituent with SSLs remaining above the GWPS in eleven of the upper bedrock corrective action and delineation monitoring wells and six of the deeper bedrock corrective action and delineation monitoring wells. Cobalt in AW-6, CRL-9, MW-22, MW-105A, MW-105B, MW-106A, and MW-109B; thallium in AW-2 and MW-109B; and vinyl chloride in MW-34 also remain as SSLs above the GWPS. As shown in Table 10, stable or decreasing trends were identified for the corrective action constituents.

Five-Year Plume Stability Review

The five-year review has indicated progress with the MNA remedy, and continued implementation of the MNA remedy is recommended. Based on the plume metric trend results, the plume areas for arsenic, cobalt, thallium, and vinyl chloride are either stable or shrinking, except for cobalt in the deeper bedrock aquifer.

For the shallow aquifer, in addition to the stable or shirking plume metric trends, semiannual statistical evaluations over the past five years indicated continued improvements in the corrective action and delineation monitoring programs. In accordance with IAC 113.10(9)e(2), four analyte/well pairs (i.e., arsenic in MW-20 and cobalt in AW-5, MW-27, and MW-35) exited correction action during the 2020-2024 review cycle. In addition, compliance with the GWPS was newly achieved for thallium in MW-20 and cobalt in MW-105A in Fall 2024; therefore, thallium in MW-20 and cobalt in MW-105A will return to assessment constituents in 2027 as long as concentrations remain statistically below the GWPS during interim statistical evaluations. For the remaining corrective action constituents listed in Table 1 of the memorandum in Appendix C, statistically significant decreasing trends were identified for arsenic in AW-1, MW-12, MW-17, MW-24, MW-30, MW-34, and MW-106A; thallium in AW-2; and vinyl chloride in MW-34.

First order attenuation estimates were evaluated for the plume maximum in Section 4.3 and for individual analyte/well pairs (see Table 11). When evaluating remedy completion for Site 1 as a whole, the timeframes estimated based on the plume maximum and for individual analyte/well pairs will be considered. Five-year review cycles will be utilized to determine whether first order attenuation can be projected for any of the corrective action constituents not previously estimated and to review the 2024 first order attenuation model results and timeframes to ensure that actual conditions are meeting the modeled expectations for the corrective action constituents which have been projected.

The five-year plume stability review supports continued implementation of the existing MNA remedy in accordance with the Risk Management Plan (HRG, 2001) since generally stable or declining plume conditions have been identified for arsenic, cobalt, thallium, and vinyl chloride. Where rebound occurred in

the past five years (i.e., shallow aquifer arsenic and vinyl chloride in 2021), decreases were identified in subsequent years.

5.1.2 Leachate Control System Performance

In 2024, W-212 was replaced with W-214 and W-217 was removed from the leachate elevation monitoring network as approved in Permit Amendment #20 issued January 9, 2025. Note that Foth requested to replace W-212 with W-214 in the *2023 AWQR* (Foth, 2024) due to a restriction encountered at 72.2 feet below top of casing (bTOC) at W-212 in December 2023. Starting in January 2024, elevations returned to a level above 72.2 feet bTOC; therefore, leachate elevations could be measured at W-212 in 2024 and the data was reported in Tables 11 and 12. If leachate levels remain above 72.2 feet bTOC, elevations will continue to be reported at W-212. W-214 will also be retained in the leachate elevation monitoring network (i.e., in addition to W-212 or as a replacement for W-212 if elevations decline below the casing restriction).

Site operations and management practices have been consistent with the regulatory intent to achieve the lowest possible leachate head levels. The leachate collection system continues to function as designed, and monthly elevations are collected to monitor short-term and long-term trends in the leachate elevation data. In 2024, no significant change to the leachate contour pattern occurred, and the variation in elevations was not correlated with precipitation. Steady to declining leachate elevations were generally observed, which, along with no apparent correlation with precipitation, supports that construction of the final cover and additional stormwater controls appears to have been effective in reducing infiltration.

A review of the average annual leachate elevations indicates stable or declining elevations at W-100, W-102, W-104, W-105, W-110, W-115, W-117, W-203, W-207, W-209, W-211, W-212, and W-219. At W-103, a slightly increasing trend was identified from 2010 to 2024 with elevations increasing by approximately 13.75 feet during this period. The slope of the increasing trend has been decreasing over time. From 2021-2024, elevations have remained approximately stable. At W-214, leachate elevation monitoring was initiated in 2024. Since only one year of data has been collected, trends are not evaluated at this time.

5.1.3 Methane

The quarterly methane monitoring results did not indicate concentrations in exceedance of 25% of the lower explosive limit (LEL) for facility structures or 100% LEL for facility boundaries.

5.2 Recommendations for Future Monitoring

On behalf of the Agency, Foth presents the following recommendations for future monitoring at Site 1:

- Continue collecting water level and well depth measurements on a semiannual basis at the HMSP-approved monitoring points.
- Begin collecting groundwater level measurements per the plan due March 3, 2025. See Remedy Implementation Schedule below.
- Continue collecting TSS samples and field turbidity measurements during sampling events in 2025.
- Continue detection, assessment, corrective action, background, and delineation monitoring as listed in Table 2.
- Continue MNA remedy implementation in accordance with the conditions set forth under Special Provision X.7 and the Risk Management Plan (HRG, 2001), and the IDNR-approved remedy implementation schedule. The updated remedy implementation schedule, reflecting the implementation actions planned, is provided in the table below.

Remedy Implementation Schedule

Estimated Completion Date	Activity
March 3, 2025	Submit a plan in accordance with IDNR recommendations (IDNR, 2025) for monitoring groundwater levels to obtain field data to visualize actual groundwater flow and compare to assumed flow from the current corrective action.
On-going – Semiannually or Annually	Continue implementation of the existing remedy in accordance with Special Provision X.7 and the Risk Management Plan (HRG, 2001).
	Continue semiannual or annual detection, assessment, and corrective action monitoring in accordance with IAC 113.10(5), (6), and (9)a and as listed in Table 2. Continue semiannual or annual delineation monitoring as listed in Table 2.
Annually (due January 31)	By January 31 of each year, submit AWQRs including an update on remedy implementation.
Every 5 years (Next due in 2029)	Conduct the next five-year review cycle to review plume stability and timeframes for remedy completion to quantitatively assess the progress of the MNA remedy for the groundwater plumes at Site 1 and to reevaluate plume characteristics over time.

6. References

Foth Infrastructure & Environment (Foth), 2008. *Cedar Rapids / Linn County Solid Waste Agency, Site No. 1, Permit No. 57-SDP-03-75C, Spring 2008 Sampling Event*. July 9. [Doc. No. 26223].

Foth, 2010a. *March 2010 Semiannual Sampling Event, Cedar Rapids/Linn County Solid Waste Agency Site No. 1, Permit No. 57-SDP-03-75C*. June 15. [Doc. No. 58224].

Foth, 2010b. *2010 Annual Water Quality Report, Cedar Rapids/Linn County Solid Waste Agency Site No. 1, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 10C033.00*. December 29. [Doc. No. 62681].

Foth, 2011. *March 2011 Semiannual Sampling Event, Cedar Rapids/Linn County Solid Waste Agency Site No. 1, Permit No. 57-SDP-03-75C*. May 16. [Doc. No. 65188].

Foth, 2012. *Assessment Work Plan, Cedar Rapids/Linn County Solid Waste Agency Site No. 1, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 11C050.00*. March 28. [Doc. No. 69500].

Foth, 2015a. *2014 Annual Water Quality Report, Cedar Rapids/Linn County Solid Waste Agency Site No. 1, DNR Permit No. 57-SDP-03-75C, Project I.D.: 14C061.00*. January 29. [Doc. No. 82643, 82499, 82502, 82503].

Foth, 2015b. *Response to DNR Comments dated March 10, 2015, Cedar Rapids/Linn County Solid Waste Agency Site 1, Permit No. 57-SDP-03-75C*. May 6. [Doc. No. 83348].

Foth, 2016a. *Fall 2016 Statistical Notifications, Cedar Rapids/Linn County Solid Waste Agency Site 1, Permit No. 57-SDP-03-75C*. November 4. [Doc. No. 87660].

Foth, 2016b. *2016 Annual Water Quality Report, Cedar Rapids/Linn County Solid Waste Agency Site 1, 2250 A Street SW, Cedar Rapids, IA 52404, DNR Permit No. 57-SDP-03-75C, Project I.D.: 16C061.00*. December 30. [Doc. No. 88060].

Foth, 2017. *Plume Delineation [IAC 113.10(6)g(1)1], Cedar Rapids/Linn County Solid Waste Agency Site 1, Permit No. 57-SDP-03-75C*. April 28. [Doc. No. 89325].

Foth, 2019a. *2018 Annual Water Quality Report, Cedar Rapids Linn County Solid Waste Agency Site 1, 2250 A Street SW, Cedar Rapids, IA 52404, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 18C061.00*. January 31. [Doc. No. 94330].

Foth, 2019b. *Public Informational Meeting & Property Owner Notifications, Cedar Rapids Linn County Solid Waste Agency Site 1, Permit No. 57-SDP-03-75C*. October 7. [Doc. No. 96064].

Foth, 2020a. *2019 Annual Water Quality Report, Cedar Rapids Linn County Solid Waste Agency Site 1, 2250 A Street SW, Cedar Rapids, IA 52404, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 19C061.00*. January 29. [Doc. No. 96887].

Foth, Memorandum to Iowa Department of Natural Resources (Matthew Graesch), 2 June. 2020b. "Site 1 Monitoring Optimization, Permit No. 57-SDP-03-75C." [Doc. No. 97853].

Foth, 2024. *2023 Annual Water Quality Report, Cedar Rapids Linn County Solid Waste Agency Site 1, 2250 A Street SW, Cedar Rapids, IA 52404, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 23C071.00*. January 23. [Doc. No. 102164].

Howard R. Green Company (HRG), *1992. Hydrogeologic Investigation Report, Cedar Rapids Sanitary Landfill, Cedar Rapids, IA, Permit No. 57-SDp-3-75P*. November 13. Unpublished report.

HRG, 1998. *Final Groundwater Quality Assessment - Work Plan, Bluestem Solid Waste Agency, Site No. 1, Cedar Rapids, Iowa*. March 25. [Doc. No. 52560].

HRG, 1999. *Groundwater Quality Assessment: Phase I Report, Bluestem Solid Waste Agency, Site No. 1, Cedar Rapids, Iowa*. October 29. [Doc. No. 52521].

HRG, 2000. *Phase II Groundwater Quality Assessment, Expanded Risk Assessment Documentation, Bluestem Solid Waste Agency, Site No. 1*. December 20. [Doc. No. 52504].

HRG, 2001. *Phase II Groundwater Quality Assessment Report, Volumes I & II, Bluestem Solid Waste Agency, Site No. 1, Cedar Rapids, IA*. April 30. [Doc. No. 52494 & 52495].

HRG, 2006. *Landfill Closure Permit Application, Cedar Rapids Linn County Solid Waste Agency, Site No. 1, 2250 A Street SW, Cedar Rapids, IA, Appendix 4: Hydrologic Monitoring System Plan*. September 21. [Doc. No. 52374-52384].

Iowa Department of Natural Resources (Matthew R. Phoenix, P.E.), Letter to Karmin McShane, 27 Jun 2011. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill (Site #1 – Marion), 2009 and 2010 Annual Water Quality Reports, Permit No. 57-SDP-03-75C." [Doc. No. 65580].

Iowa Department of Natural Resources (Matthew R. Phoenix, P.E.), Letter to Karmin McShane, 10 Jul 2014. "Cedar Rapids/Linn Co. Solid Waste Agency #1 Sanitary Landfill (Closed), Permit #57-SDP-03-75, Unnumbered Amendment Regarding Turbidity." [Doc. No. 80704].

Iowa Department of Natural Resources (Matthew R. Phoenix, P.E.), Letter to Karmin McShane, 10 Mar 2015. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill (Site #1 – Cedar Rapids), 2013 and 2014 Annual Water Quality Reports and 2014 Statistical Notifications, Permit No. 57-SDP-03-75C." [Doc. No. 82674].

Iowa Department of Natural Resources (Matthew R. Phoenix, P.E.), Letter to Karmin McShane, 12 May 2016. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill (Site #1 – Cedar Rapids), 2015 Annual Water Quality Report and 2015 Statistical Notifications, Permit No. 57-SDP-03-75C." [Doc. #86317].

Iowa Department of Natural Resources (Matthew Graesch), Letter to Karmin McShane, 20 Nov 2017. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill #1, Permit No. 57-SDP-03-75C, Response to Fall 2017 Statistical Notifications (doc 90813)." [Doc. No. 90850].

Iowa Department of Natural Resources (Matthew Graesch), Letter to Karmin McShane, 16 Apr 2019. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill #1, Permit No. 57-SDP-03-75C, 2019 Annual Water Quality Report (Doc No. 94330)." [Doc. No. 94910].

Iowa Department of Natural Resources (Matthew Graesch), Letter to Karmin McShane, 2 July 2020. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill #1, Permit No. 57-SDP-03-75C, Groundwater Monitoring Optimization Report (Doc. No. 97853)."[Doc. No 98023]

Iowa Department of Natural Resources (Brian Rath, P.E.), Email to Karmin McShane, 3 Jan 2025. "CRLCSWA Site 1 – Corrective Action Changes." [Doc. No 111644]

United States Environmental Protection Agency (USEPA, 2020). *National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. Office of Superfund Remediation and Technology Innovation, Washington, D.C*. Revised November 2020.

Tables

Table 1
Monitoring Program Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Monitoring Well	Formation	Current Monitoring Program [1]	Change for Next Sampling Event	Constituents w/ SSI [2]	Constituents w/ SSL [2]	Total # of Samples in Each Monitoring Program				
						Detection	Assessment	Corrective Action	Delineation	Background
Upper Bedrock Monitoring Locations										
Downgradient Monitoring Locations										
AW-1	Limestone	Corrective Action	No Change	1,4-Dichlorobenzene; Barium; Chlorobenzene; Thallium	Arsenic	0	8	22	0	0
AW-2	Limestone	Corrective Action	No Change	1,1-Dichloroethane; Barium; Chlorobenzene; cis-1,2-Dichloroethene	Arsenic; Thallium	0	5	25	0	0
AW-3	Limestone	Assessment	No Change	Arsenic	None	5	26	0	0	0
AW-4	Alluvium - Sand, Silt, Clay	Assessment	No Change	Arsenic; Cadmium; Copper; Nickel	None	8	24	0	0	0
AW-5	Alluvium - Sand	Assessment	No Change	Barium; Selenium	None	3	16	11	0	0
MW-12	Dolomite	Corrective Action	No Change	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; cis-1,2-Dichloroethene; Nickel; Thallium	Arsenic	0	6	28	0	0
MW-13	Dolomite	Corrective Action	No Change	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene	Arsenic	0	5	29	0	0
MW-16	Limestone/Dolomite	Corrective Action	No Change	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene	Arsenic	0	8	26	0	0
MW-17	Silty/Clayey Sand & Dolomite	Corrective Action	No Change	Barium	Arsenic	0	6	28	0	0
MW-20	Dolomite	Corrective Action	No Change	Arsenic; Barium	None	1	5	24	0	0
MW-21	Dolomite	Assessment	No Change	Barium; Chlorobenzene; Thallium	None	0	30	0	0	0
MW-23	Dolomite	Assessment	No Change	None	None	0	20	10	0	0
MW-24	Dolomite	Corrective Action	No Change	1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene	Arsenic	0	8	24	0	0
MW-26	Dolomite	Assessment	No Change	Barium	None	1	31	0	0	0
MW-28	Limestone	Assessment	No Change	Barium	None	3	27	0	0	0
MW-30	Dolomite	Corrective Action	No Change	1,1-Dichloroethane; Barium; Benzene; Chloroethane; cis-1,2-Dichloroethene; Vinyl Chloride; Zinc	Arsenic	0	6	24	0	0
MW-32	Dolomite	Corrective Action	No Change	1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; Cobalt; Nickel	Arsenic	0	7	27	0	0
MW-34	Alluvium - Sand/ Colluvium Silt	Corrective Action	No Change	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; Toluene	Arsenic; Vinyl Chloride	0	8	23	0	0
MW-35	Dolomite	Corrective Action	Assessment [3]	Arsenic; Barium; Selenium	None	0	12	17	0	0
VP-3	Limestone	Assessment	No Change	Arsenic; Barium	None	1	16	13	0	0
VP-4	Limestone	Assessment	No Change	Arsenic	None	3	27	0	0	0

Table 1
Monitoring Program Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Monitoring Well	Formation	Current Monitoring Program [1]	Change for Next Sampling Event	Constituents w/ SSI [2]	Constituents w/ SSL [2]	Total # of Samples in Each Monitoring Program				
						Detection	Assessment	Corrective Action	Delineation	Background
Upper Bedrock Monitoring Locations Continued										
Background Monitoring Locations										
MW-37	Limestone/Dolomite	Background	No Change	None	None	0	0	0	0	36
MW-101A	Glacial Drift Till - Silty Clay/ Alluvium - Sand	Background	No Change	None	None	0	0	0	0	25
Delineation Monitoring Locations										
MW-105A	Alluvium - Sand	Delineation	No Change	None	None	0	0	0	21	0
MW-106A	Alluvium - Silt/Sand	Delineation	No Change	Barium; Nickel	Arsenic; Cobalt	0	0	0	21	0
MW-107A	Glacial Drift Till - Silty Clay/ Alluvium - Sand	Delineation	No Change	Barium	None	0	0	0	21	0
MW-109A	Alluvium - Sand/Lean Clay	Delineation	No Change	Barium; Selenium	None	0	0	0	13	0
Deeper Bedrock Monitoring Locations										
Downgradient Monitoring Locations										
AW-6	Limestone	Corrective Action	No Change	1,1-Dichloroethane; Barium; Nickel	Cobalt	0	17	13	0	0
CRL-9	Limestone	Corrective Action	No Change	Barium; Benzene; Nickel	Arsenic; Cobalt	0	8	22	0	0
MW-11	Dolomite	Assessment	No Change	1,1-Dichloroethane; Cobalt	None	0	30	0	0	0
MW-14	Dolomite	Corrective Action	No Change	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; Nickel	Arsenic	0	8	26	0	0
MW-15	Dolomite	Assessment	No Change	Cobalt; Nickel	None	9	22	0	0	0
MW-18	Dolomite	Assessment	No Change	Arsenic	None	7	24	0	0	0
MW-19	Dolomite	Assessment	No Change	Nickel	None	5	26	0	0	0
MW-22	Dolomite	Corrective Action	No Change	1,1-Dichloroethane; 1,4-Dichlorobenzene; Barium; Chlorobenzene; Nickel	Arsenic; Cobalt	0	8	22	0	0
MW-25	Dolomite	Assessment	No Change	Barium; cis-1,2-Dichloroethene	None	3	27	0	0	0
MW-31	Dolomite	Detection	No Change	None	None	19	11	0	0	0
MW-33	Dolomite	Corrective Action	No Change	1,4-Dichlorobenzene; Barium; Chlorobenzene; Cobalt	Arsenic	0	8	26	0	0
MW-36	Limestone	Corrective Action	No Change	1,4-Dichlorobenzene; Barium; Chlorobenzene; Cobalt; Nickel	Arsenic	0	8	22	0	0
Background Monitoring Locations										
MW-38	Limestone	Background	No Change	None	None	0	0	0	0	34
MW-101B	Limestone	Background	No Change	None	None	0	0	0	0	25
Delineation Monitoring Locations										
MW-102B	Limestone	Delineation	No Change	Cobalt	None	0	0	0	19	0
MW-104B	Dolomite	Delineation	No Change	None	None	0	0	0	21	0
MW-105B	Limestone	Delineation	No Change	1,1-Dichloroethane; Arsenic; Nickel	Cobalt	0	0	0	21	0
MW-107B	Limestone/Dolomite	Delineation	No Change	Barium; Cobalt; Nickel; Thallium	None	0	0	0	21	0
MW-108B	Limestone	Delineation	No Change	Barium	None	0	0	0	13	0

Table 1
Monitoring Program Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Monitoring Well	Formation	Current Monitoring Program [1]	Change for Next Sampling Event	Constituents w/ SSI [2]	Constituents w/ SSL [2]	Total # of Samples in Each Monitoring Program				
						Detection	Assessment	Corrective Action	Delineation	Background
Deeper Bedrock Monitoring Locations Continued										
Delineation Monitoring Locations Continued										
MW-109B	Limestone/Dolomite	Delineation	No Change	1,4-Dichlorobenzene; Barium; Chlorobenzene; Nickel	Arsenic; Cobalt; Thallium	0	0	0	17	0

Comments:

N/A= not applicable

[1] Current Monitoring Program is from the last event the location was sampled (i.e., Fall 2024 event).

[2] SSIs and SSLs are from the Fall 2024 statistical evaluation.

[3] In accordance with Iowa Administrative Code (IAC) 113.10(9)e(2), cobalt in MW-35 will return to an assessment constituent in 2025. Since cobalt is the only corrective action constituent in MW-35, MW-35 will return to an assessment monitoring location in 2025.

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Monitoring Well	Monitoring Program	Sampling Date and Constituents [1,2]		Upcoming Sampling Dates and Constituents [2]		Full Appendix II Sample Dates	
		Mar. 2024	Aug. 2024	Spring 2025	Fall 2025	Previously Collected	Next Event
Upper Bedrock Monitoring Locations							
Downgradient Monitoring Locations							
AW-1	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
AW-2	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
AW-3	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Mar. 2016, Jun. 2016, Aug. 2020	Fall 2025
AW-4	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Mar. 2016, Jun. 2016, Aug. 2020	Fall 2025
AW-5	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2015, Aug. 2020	Fall 2025
MW-12	Corrective Action	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-13	Corrective Action	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-16	Corrective Action	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-17	Corrective Action	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-20	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2015, Aug. 2020	Fall 2025
MW-21	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-23	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-24	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-26	Assessment		Appendix II, TSS		Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020, Jan. 2023, Mar. 2023	Fall 2028
MW-28	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2015, Aug. 2020	Fall 2025
MW-30	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-32	Corrective Action	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-34	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-35	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
VP-3	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2015, Aug. 2020	Fall 2025
VP-4	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Jul. 2019, Sep. 2009, Sep. 2015, Aug. 2020	Fall 2025
Background Monitoring Locations							
MW-37	Background	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2015, Sep. 2015, Mar. 2016, Aug. 2020	Fall 2025
MW-101A	Background	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Oct. 2015, Mar. 2016, Aug. 2020	Fall 2025
Delineation Monitoring Locations							
MW-105A	Delineation		Appendix I, TSS		Appendix I, TSS	N/A - Delineation Monitoring	N/A
MW-106A	Delineation		Appendix I, TSS		Appendix I, TSS	N/A - Delineation Monitoring	N/A
MW-107A	Delineation		Appendix I, TSS		Appendix I, TSS	N/A - Delineation Monitoring	N/A
MW-109A	Delineation		Appendix I, TSS		Appendix I, TSS	N/A - Delineation Monitoring	N/A

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Monitoring Well	Monitoring Program	Sampling Date and Constituents [1,2]		Upcoming Sampling Dates and Constituents [2]		Full Appendix II Sample Dates	
		Mar. 2024	Aug. 2024	Spring 2025	Fall 2025	Previously Collected	Next Event
Deeper Bedrock Monitoring Locations							
Downgradient Monitoring Locations							
AW-6	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
CRL-9	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-11	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-14	Corrective Action	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sept. 2015, Aug. 2020	Fall 2025
MW-15	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Jun. 2016, Aug. 2016, Aug. 2020	Fall 2025
MW-18	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Jul. 2015, Sep. 2015, Aug. 2020	Fall 2025
MW-19	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Jul. 2015, Sep. 2015, Aug. 2020	Fall 2025
MW-22	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-25	Assessment		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2015, Aug. 2020	Fall 2025
MW-31	Detection		Appendix I, TSS		Appendix I, TSS	Aug. 2008, Mar. 2009	N/A - Detection
MW-33	Corrective Action	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
MW-36	Corrective Action		Appendix II, TSS		Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Aug. 2020	Fall 2025
Background Monitoring Locations							
MW-38	Background	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Aug. 2008, Mar. 2009, Sep. 2010, Sep. 2015, Mar. 2016, Aug. 2016, Aug. 2020	Fall 2025
MW-101B	Background	Appendix II, TSS	Appendix II, TSS	Appendix II, TSS	Full Appendix II, TSS	Sep. 2015, Mar. 2016, Sep. 2016, Aug. 2020	Fall 2025
Delineation Monitoring Locations							
MW-102B	Delineation		Appendix I, TSS		Appendix I, TSS	N/A - Delineation Monitoring	N/A
MW-104B	Delineation		Arsenic, TSS [3]		Arsenic, TSS [3]	N/A - Delineation Monitoring	N/A
MW-105B	Delineation		Appendix I, TSS		Appendix I, TSS	N/A - Delineation Monitoring	N/A
MW-107B	Delineation		Appendix I, TSS		Appendix I, TSS	N/A - Delineation Monitoring	N/A
MW-108B	Delineation		Appendix I without Cobalt, TSS [4]		Appendix I without Cobalt, TSS [4]	N/A - Delineation Monitoring	N/A
MW-109B	Delineation	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	N/A - Delineation Monitoring	N/A

Comments:

N/A = Not Applicable

[1] In Mar. and Aug. 2024, semiannual corrective action, background, and delineation monitoring was continued at upper bedrock wells MW-12, MW-13, MW-16, MW-17, MW-32, MW-37, and MW-101A and deeper bedrock wells MW-14, MW-33, MW-38, MW-101B, and MW-109B. In accordance with Permit Amendment #16, annual detection, assessment, corrective action, and delineation monitoring was also conducted in Aug. 2024 at upper bedrock wells AW-1, AW-2, AW-3, AW-4, AW-5, MW-20, MW-21, MW-23, MW-24, MW-26, MW-28, MW-30, MW-34, MW-35, VP-3, VP-4, MW-105A, MW-106A, MW-107A, and MW-109A and deeper bedrock wells AW-6, CRL-9, MW-11, MW-15, MW-18, MW-19, MW-22, MW-25, MW-31, MW-36, MW-102B, MW-104B, MW-105B, MW-107B, and MW-108B.

[2] Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Mar. and Aug. 2024, and will be sampled for the Appendix I and detected Appendix II constituents in Spring 2025. Except for MW-26, the five-year resampling of the full Appendix II list will be conducted at assessment, corrective action, and background monitoring wells in Fall 2025 in accordance with Permit Amendment #6. At MW-26, resampling for the full Appendix II list is scheduled for Fall 2028.

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Comments Continued:

(3) The Iowa Department of Natural Resources (IDNR) approved retaining MW-104B as an arsenic delineation monitoring well in the letter dated May 12, 2016 (IDNR, 2016).

(4) The IDNR approved the removal of cobalt from the list of analytes at MW-108B in the letter dated April 16, 2019 (IDNR, 2019).

Table 3
Monitoring Well Maintenance and Performance Reevaluation Schedule
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Compliance with:	Monitoring Calendar Years										
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
567 IAC 113.10(2)"f"(1): High and low water levels (semiannual)	Completed		Completed		Completed		Completed		Completed		Scheduled
567 IAC 113.10(2)"f"(2): Changes in the hydrologic setting and flow paths	Completed		Completed		Completed		Completed		Completed		Scheduled
567 IAC 113.10(2)"f"(3): Well depths	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Scheduled
567 IAC 113.10(2)"f"(4)" Well recharge rates and chemistry	Completed		Completed		Completed		Completed		Completed		Scheduled
567 IAC 113.6(2)"i": Waste separation from ground water	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Comments:

• In accordance with Permit Amendment #4 and the variance granted on March 26, 2010, monitoring well maintenance and performance is conducted in accordance with 567 IAC 113.10(2)"f" rather than the rules in effect at the time of closure.

• Groundwater elevations and measured well depths are shown on Table 4 and the field sampling forms in Appendix A.

• 567 IAC 113.6(2)"i" is not applicable. Site 1 is a closed, unlined landfill. The rules in effect at the time of closure were 567 IAC 113.26 (effective 1/15/03).

Table 4
Monitoring Well Maintenance and Performance Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Top of Casing (feet amsl)	Top of Screen (feet amsl)	Total Depth (feet bTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (feet)
					Mar. 2024	Aug. 2024	
Upper Bedrock Monitoring Locations							
Downgradient Monitoring Locations							
AW-1	739.51	711.84	47.67	Groundwater Level (feet bTOC)	36.83	32.87	-0.33
				Groundwater Elevation (feet amsl)	702.68	706.64	
				Measured Well Depth (feet bTOC)	48.00	48.00	
				Submerged Screen	N	N	
AW-2	788.18	710.60	97.58	Groundwater Level (feet bTOC)	77.77	77.50	0.08
				Groundwater Elevation (feet amsl)	710.41	710.68	
				Measured Well Depth (feet bTOC)	97.50	97.50	
				Submerged Screen	N	Y	
AW-3	799.31	711.70	107.61	Groundwater Level (feet bTOC)	92.07	90.49	-0.29
				Groundwater Elevation (feet amsl)	707.24	708.82	
				Measured Well Depth (feet bTOC)	107.90	107.90	
				Submerged Screen	N	N	
AW-4	725.76	712.44	33.32	Groundwater Level (feet bTOC)	24.77	22.08	0.22
				Groundwater Elevation (feet amsl)	700.99	703.68	
				Measured Well Depth (feet bTOC)	33.10	33.10	
				Submerged Screen	N	N	
AW-5	721.33	711.44	29.89	Groundwater Level (feet bTOC)	20.26	17.28	-0.36
				Groundwater Elevation (feet amsl)	701.07	704.05	
				Measured Well Depth (feet bTOC)	30.25	30.25	
				Submerged Screen	N	N	
MW-12	745.37	708.84	46.53	Groundwater Level (feet bTOC)	41.00	37.85	-0.27
				Groundwater Elevation (feet amsl)	704.37	707.52	
				Measured Well Depth (feet bTOC)	46.80	46.80	
				Submerged Screen	N	N	
MW-13	740.99	714.16	41.83	Groundwater Level (feet bTOC)	36.45	32.58	-0.32
				Groundwater Elevation (feet amsl)	704.54	708.41	
				Measured Well Depth (feet bTOC)	42.15	42.15	
				Submerged Screen	N	N	
MW-16	737.92	711.67	41.25	Groundwater Level (feet bTOC)	34.55	30.38	-0.25
				Groundwater Elevation (feet amsl)	703.37	707.54	
				Measured Well Depth (feet bTOC)	41.50	41.50	
				Submerged Screen	N	N	
MW-17	736.68	709.99	36.69	Groundwater Level (feet bTOC)	29.05	23.47	-0.21
				Groundwater Elevation (feet amsl)	707.63	713.21	
				Measured Well Depth (feet bTOC)	36.90	36.90	
				Submerged Screen	N	Y	
MW-20	723.48	706.73 [1]	26.75 [1]	Groundwater Level (feet bTOC)	22.15	19.79	0.25
				Groundwater Elevation (feet amsl)	701.33	703.69	
				Measured Well Depth (feet bTOC)	26.50	26.50	
				Submerged Screen	N	N	
MW-21	732.88	706.93 [2]	36.50 [2]	Groundwater Level (feet bTOC)	31.24	28.47	0.60
				Groundwater Elevation (feet amsl)	701.64	704.41	
				Measured Well Depth (feet bTOC)	35.90	35.90	
				Submerged Screen	N	N	
MW-23	736.74	712.29	39.45	Groundwater Level (feet bTOC)	34.77	31.59	-0.05
				Groundwater Elevation (feet amsl)	701.97	705.15	
				Measured Well Depth (feet bTOC)	39.50	39.50	
				Submerged Screen	N	N	

Table 4
Monitoring Well Maintenance and Performance Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Top of Casing (feet amsl)	Top of Screen (feet amsl)	Total Depth (feet bTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (feet)
					Mar. 2024	Aug. 2024	
Upper Bedrock Monitoring Locations Continued							
Downgradient Monitoring Locations Continued							
MW-24	785.70	707.00 (1)	88.70 (1)	Groundwater Level (feet bTOC)	81.27	78.12	-0.30
				Groundwater Elevation (feet amsl)	704.43	707.58	
				Measured Well Depth (feet bTOC)	89.00	89.00	
				Submerged Screen	N	Y	
MW-26	811.58	716.70	109.88	Groundwater Level (feet bTOC)	104.00	102.34	-1.47
				Groundwater Elevation (feet amsl)	707.58	709.24	
				Measured Well Depth (feet bTOC)	111.35	111.35	
				Submerged Screen	N	N	
MW-28	816.62	715.46	116.16	Groundwater Level (feet bTOC)	109.82	108.17	-0.99
				Groundwater Elevation (feet amsl)	706.80	708.45	
				Measured Well Depth (feet bTOC)	117.15	117.15	
				Submerged Screen	N	N	
MW-30	790.98	712.40	88.58	Groundwater Level (feet bTOC)	83.23	81.66	-1.02
				Groundwater Elevation (feet amsl)	707.75	709.32	
				Measured Well Depth (feet bTOC)	89.60	89.60	
				Submerged Screen	N	N	
MW-32	749.01	713.62	55.62	Groundwater Level (feet bTOC)	47.18	44.58	-0.18
				Groundwater Elevation (feet amsl)	701.83	704.43	
				Measured Well Depth (feet bTOC)	55.80	55.80	
				Submerged Screen	N	N	
MW-34	748.72	708.91	49.81	Groundwater Level (feet bTOC)	45.65	42.63	0.31
				Groundwater Elevation (feet amsl)	703.07	706.09	
				Measured Well Depth (feet bTOC)	49.50	49.50	
				Submerged Screen	N	N	
MW-35	744.89	711.04	43.85	Groundwater Level (feet bTOC)	42.58	40.02	-1.55
				Groundwater Elevation (feet amsl)	702.31	704.87	
				Measured Well Depth (feet bTOC)	45.40	45.40	
				Submerged Screen	N	N	
VP-3	774.52	710.42	74.10	Groundwater Level (feet bTOC)	63.30	63.20	-0.20
				Groundwater Elevation (feet amsl)	711.22	711.32	
				Measured Well Depth (feet bTOC)	74.30	74.30	
				Submerged Screen	Y	Y	
VP-4	790.91	718.01	82.99	Groundwater Level (feet bTOC)	80.11	79.74	-0.26
				Groundwater Elevation (feet amsl)	710.80	711.17	
				Measured Well Depth (feet bTOC)	83.25	83.25	
				Submerged Screen	N	N	
Background Monitoring Locations							
MW-37	784.81	724.97	69.84	Groundwater Level (feet bTOC)	65.21	64.98	-0.11
				Groundwater Elevation (feet amsl)	719.60	719.83	
				Measured Well Depth (feet bTOC)	69.95	69.95	
				Submerged Screen	N	N	
MW-101A	720.47	706.36	29.55	Groundwater Level (feet bTOC)	18.87	16.09	0.10
				Groundwater Elevation (feet amsl)	701.60	704.38	
				Measured Well Depth (feet bTOC)	29.45	29.45	
				Submerged Screen	N	N	

Table 4
Monitoring Well Maintenance and Performance Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Top of Casing (feet amsl)	Top of Screen (feet amsl)	Total Depth (feet bTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (feet)
					Mar. 2024	Aug. 2024	
Upper Bedrock Monitoring Locations Continued							
Delineation Monitoring Locations							
MW-102A	725.57	705.11	33.75	Groundwater Level (feet bTOC)	23.92	21.08	0.00
				Groundwater Elevation (feet amsl)	701.65	704.49	
				Measured Well Depth (feet bTOC)	33.75	33.75	
				Submerged Screen	N	N	
MW-103A	720.34	707.62	22.90	Groundwater Level (feet bTOC)	18.08	14.91	0.40
				Groundwater Elevation (feet amsl)	702.26	705.43	
				Measured Well Depth (feet bTOC)	22.50	22.50	
				Submerged Screen	N	N	
MW-105A	723.97	708.80	30.40	Groundwater Level (feet bTOC)	23.06	21.38	0.05
				Groundwater Elevation (feet amsl)	700.91	702.59	
				Measured Well Depth (feet bTOC)	30.35	30.35	
				Submerged Screen	N	N	
MW-106A	716.19	707.34	23.55	Groundwater Level (feet bTOC)	15.12	12.93	0.05
				Groundwater Elevation (feet amsl)	701.07	703.26	
				Measured Well Depth (feet bTOC)	23.50	23.50	
				Submerged Screen	N	N	
MW-107A	721.65	706.90	29.95	Groundwater Level (feet bTOC)	20.49	18.17	0.30
				Groundwater Elevation (feet amsl)	701.16	703.48	
				Measured Well Depth (feet bTOC)	29.65	29.65	
				Submerged Screen	N	N	
MW-108A	719.11	710.15	19.30	Groundwater Level (feet bTOC)	16.19	12.18	0.00
				Groundwater Elevation (feet amsl)	702.92	706.93	
				Measured Well Depth (feet bTOC)	19.30	19.30	
				Submerged Screen	N	N	
MW-109A	724.17	707.23	27.45	Groundwater Level (feet bTOC)	23.35	20.86	0.30
				Groundwater Elevation (feet amsl)	700.82	703.31	
				Measured Well Depth (feet bTOC)	27.15	27.15	
				Submerged Screen	N	N	
Deeper Bedrock Monitoring Locations							
Downgradient Monitoring Locations							
AW-6	721.13	651.44	79.69	Groundwater Level (feet bTOC)	20.56	18.33	0.19
				Groundwater Elevation (feet amsl)	700.57	702.80	
				Measured Well Depth (feet bTOC)	79.50	79.50	
				Submerged Screen	Y	Y	
CRL-9	736.59	672.89	73.70	Groundwater Level (feet bTOC)	34.61	31.44	0.05
				Groundwater Elevation (feet amsl)	701.98	705.15	
				Measured Well Depth (feet bTOC)	73.65	73.65	
				Submerged Screen	Y	Y	
MW-11	745.62	678.44	72.18	Groundwater Level (feet bTOC)	41.38	38.23	-0.42
				Groundwater Elevation (feet amsl)	704.24	707.39	
				Measured Well Depth (feet bTOC)	72.60	72.60	
				Submerged Screen	Y	Y	
MW-14	740.93	679.13	66.80	Groundwater Level (feet bTOC)	36.57	33.14	-0.35
				Groundwater Elevation (feet amsl)	704.36	707.79	
				Measured Well Depth (feet bTOC)	67.15	67.15	
				Submerged Screen	Y	Y	

Table 4
Monitoring Well Maintenance and Performance Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Top of Casing (feet amsl)	Top of Screen (feet amsl)	Total Depth (feet bTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (feet)
					Mar. 2024	Aug. 2024	
Deeper Bedrock Monitoring Locations Continued							
Downgradient Monitoring Locations Continued							
MW-15	737.99	673.59	69.40	Groundwater Level (feet bTOC)	34.36	30.30	-0.25
				Groundwater Elevation (feet amsl)	703.63	707.69	
				Measured Well Depth (feet bTOC)	69.65	69.65	
				Submerged Screen	Y	Y	
MW-18	736.28	676.53	64.75	Groundwater Level (feet bTOC)	30.21	25.76	-0.35
				Groundwater Elevation (feet amsl)	706.07	710.52	
				Measured Well Depth (feet bTOC)	65.10	65.10	
				Submerged Screen	Y	Y	
MW-19	723.01	680.23	47.78	Groundwater Level (feet bTOC)	21.59	19.21	-0.02
				Groundwater Elevation (feet amsl)	701.42	703.80	
				Measured Well Depth (feet bTOC)	47.80	47.80	
				Submerged Screen	Y	Y	
MW-22	733.34	681.27	57.45	Groundwater Level (feet bTOC)	31.69	28.91	-0.05
				Groundwater Elevation (feet amsl)	701.65	704.43	
				Measured Well Depth (feet bTOC)	57.50	57.50	
				Submerged Screen	Y	Y	
MW-25	784.20	679.02	110.18	Groundwater Level (feet bTOC)	79.80	76.76	-0.02
				Groundwater Elevation (feet amsl)	704.40	707.44	
				Measured Well Depth (feet bTOC)	110.20	110.20	
				Submerged Screen	Y	Y	
MW-27	809.66	671.66	143.00	Groundwater Level (feet bTOC)	102.95	101.27	-0.35
				Groundwater Elevation (feet amsl)	706.71	708.39	
				Measured Well Depth (feet bTOC)	143.35	143.35	
				Submerged Screen	Y	Y	
MW-29	816.20	679.70	141.50	Groundwater Level (feet bTOC)	109.44	107.74	-0.25
				Groundwater Elevation (feet amsl)	706.76	708.46	
				Measured Well Depth (feet bTOC)	141.75	141.75	
				Submerged Screen	Y	Y	
MW-31	790.06	671.00	124.06	Groundwater Level (feet bTOC)	83.73	81.85	-0.14
				Groundwater Elevation (feet amsl)	706.33	708.21	
				Measured Well Depth (feet bTOC)	124.20	124.20	
				Submerged Screen	Y	Y	
MW-33	749.92	670.39	84.53	Groundwater Level (feet bTOC)	47.86	45.33	-0.17
				Groundwater Elevation (feet amsl)	702.06	704.59	
				Measured Well Depth (feet bTOC)	84.70	84.70	
				Submerged Screen	Y	Y	
MW-36	745.22	674.03	76.19	Groundwater Level (feet bTOC)	42.96	40.44	-0.01
				Groundwater Elevation (feet amsl)	702.26	704.78	
				Measured Well Depth (feet bTOC)	76.20	76.20	
				Submerged Screen	Y	Y	
Background Monitoring Locations							
MW-38	784.81	699.26	90.55	Groundwater Level (feet bTOC)	65.45	65.08	0.45
				Groundwater Elevation (feet amsl)	719.36	719.73	
				Measured Well Depth (feet bTOC)	90.10	90.10	
				Submerged Screen	Y	Y	
MW-101B	720.33	640.36	84.90	Groundwater Level (feet bTOC)	18.63	15.90	0.05
				Groundwater Elevation (feet amsl)	701.70	704.43	
				Measured Well Depth (feet bTOC)	84.85	84.85	
				Submerged Screen	Y	Y	

Table 4
Monitoring Well Maintenance and Performance Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Top of Casing (feet amsl)	Top of Screen (feet amsl)	Total Depth (feet bTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (feet)
					Mar. 2024	Aug. 2024	
Deeper Bedrock Monitoring Locations Continued							
Delineation Monitoring Locations							
MW-102B	726.21	651.28	88.00	Groundwater Level (feet bTOC)	24.62	21.85	0.00
				Groundwater Elevation (feet amsl)	701.59	704.36	
				Measured Well Depth (feet bTOC)	88.00	88.00	
				Submerged Screen	Y	Y	
MW-103C	719.90	649.32	75.85	Groundwater Level (feet bTOC)	17.66	14.44	0.35
				Groundwater Elevation (feet amsl)	702.24	705.46	
				Measured Well Depth (feet bTOC)	75.50	75.50	
				Submerged Screen	Y	Y	
MW-104B	773.35	686.09	98.10	Groundwater Level (feet bTOC)	65.42	64.12	-0.10
				Groundwater Elevation (feet amsl)	707.93	709.23	
				Measured Well Depth (feet bTOC)	98.20	98.20	
				Submerged Screen	Y	Y	
MW-105B	724.00	648.80	85.50	Groundwater Level (feet bTOC)	23.06	21.51	0.10
				Groundwater Elevation (feet amsl)	700.94	702.49	
				Measured Well Depth (feet bTOC)	85.40	85.40	
				Submerged Screen	Y	Y	
MW-107B	721.91	660.37	67.51	Groundwater Level (feet bTOC)	20.45	17.98	-0.09
				Groundwater Elevation (feet amsl)	701.46	703.93	
				Measured Well Depth (feet bTOC)	67.60	67.60	
				Submerged Screen	Y	Y	
MW-108B	719.00	646.77	76.70	Groundwater Level (feet bTOC)	15.44	12.89	-0.10
				Groundwater Elevation (feet amsl)	703.56	706.11	
				Measured Well Depth (feet bTOC)	76.80	76.80	
				Submerged Screen	Y	Y	
MW-109B	724.37	650.27	84.05	Groundwater Level (feet bTOC)	22.72	20.50	0.40
				Groundwater Elevation (feet amsl)	701.65	703.87	
				Measured Well Depth (feet bTOC)	83.65	83.65	
				Submerged Screen	Y	Y	

Comments:
amsl = above mean sea level
bTOC = below top of casing
N/A = Not applicable
(1) MW-20 and MW-24 were replaced in 2005, but well construction forms could not be located on Iowa Department of Natural Resources (IDNR) DocDNA. Constructed well depths were from the 2005 Annual Water Quality Report (AWQR) and Top of Screen (TOS) were estimated.
(2) MW-21 was replaced in 2005, but well construction form could not be located on IDNR DocDNA. Constructed well depth was from the 2005 AWQR and TOS was estimated. The constructed well depth was updated in Spring 2021 due to casing extension conducted as part of City of Cedar Rapids flood wall construction project.

Well Depths:
• In accordance with IAC 113.10(2)f(3), well depth measurements were collected in 2024 to ensure the wells are physically intact and not filling with sediment. The 2024 well depths are within one foot of the original well depths, except at MW-26, MW-30, and MW-35. The well depth measurements at these locations were between 1-2 feet deeper than the original well depths, which does not indicate that these wells are filling up with sediment. The discrepancies between the measured well depths and the original depths at MW-26, MW-30, and MW-35 are attributed to an error in the original boring log records for these wells.
• The 2024 measured well depths indicated that the wells are not filling with sediment and remain physically intact. No maintenance activities are recommended based on review of the 2024 well depth information.

Table 4
Monitoring Well Maintenance and Performance Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Exterior Well Maintenance:

• The following well maintenance was conducted in June 2024 as recommended from the Aug. 2023 well maintenance evaluation: painting bumper posts, replacing locks, and repairing/replacing hinges of the outer protective casings. The exterior condition of the monitoring wells was evaluated again in Aug. 2024. This inspection included: the physical surrounding, condition of the bumper posts, condition of the surface seal, condition of the outer protective casing, verifying wells are locked, condition of the well cap, presence of water in the annular space or around the exterior of the well, and obstructions or kinks in the well casing. Well maintenance is not recommended based on the Aug. 2024 evaluation.

Table 5
Background and GWPS Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Constituent [1]	CAS #	Units	Samples	Detections [2]	Min [3]	Max [3]	Mean [3]	Note	Background Level	Statistical Test	GWPS	Source [4]
Interwell Background/GWPS (Aug. 2008 - Aug. 2024) - Upper Bedrock Monitoring Locations												
4,4'-DDE	72-55-9	ug/L	15	1	0.00227 J	0.0348 (1/2 RL)	0.0178	J-Flagged Only	**0.0640 (RL)**	DQR	**0.51**	SS
alpha-BHC	319-84-6	ug/L	43	3	0.00189 J	0.0356 (1/2 RL)	0.0189	J-Flagged Only	**0.0640 (RL)**	DQR	**0.028**	SS
Antimony	7440-36-0	mg/L	52	9	0.00021 J	0.00739	0.00117		**0.00739**	Non-Parametric (1-of-2)	**0.006**	MCL
Arsenic	7440-38-2	mg/L	53	10	0.0005 (1/2 RL)	0.00205	0.00097		**0.00205**	Non-Parametric (1-of-2)	**0.01**	MCL
Barium	7440-39-3	mg/L	49	49	0.0244	0.191	0.0523		**0.1285**	Parametric (Lognormal, 1-of-2)	**2**	MCL
Benzene	71-43-2	ug/L	54	1	0.25 (1/2 RL)	2.5 (1/2 RL)	0.30		**0.500 (RL)**	DQR	**5**	MCL
Benzo(ghi)perylene	191-24-2	ug/L	20	1	0.484 J	6.75 (1/2 RL)	5.07	J-Flagged Only	**10.0 (RL)**	DQR	**21**	SS
Beryllium	7440-41-7	mg/L	54	1	0.0000410 J	0.002 (1/2 RL)	0.00057	J-Flagged Only	**0.001 (RL)**	DQR	**0.004**	MCL
beta-BHC	319-85-7	ug/L	51	1	0.008 (1/2 RL)	0.04 (1/2 RL)	0.0214	J-Flagged Only	**0.0640 (RL)**	DQR	**0.042**	SS
Bis(2-ethylhexyl)phthalate	117-81-7	ug/L	53	3	0.409 J	6.85 (1/2 RL)	5.24	J-Flagged Only	**10.0 (RL)**	DQR	**6**	MCL
Butylbenzylphthalate	85-68-7	ug/L	20	1	0.341 J	6.75 (1/2 RL)	5.06	J-Flagged Only	**10.0 (RL)**	DQR	**140**	SS
Cadmium	7440-43-9	mg/L	52	6	0.000048 (1/2 RL)	0.0025 (1/2 RL)	0.000297	J-Flagged Only	**0.0002 (RL)**	DQR	**0.005**	MCL
Carbon Disulfide	75-15-0	ug/L	54	3	0.152 J	5.00 (1/2 RL)	0.67		**1.00 (RL)**	DQR	**700**	SS
Chloromethane	74-87-3	ug/L	53	1	0.311 J	15.0 (1/2 RL)	1.73	J-Flagged Only	**3.00 (RL)**	DQR	**N/A**	N/A
Chromium	7440-47-3	mg/L	54	7	0.000904 J	0.025 (1/2 RL)	0.0050	J-Flagged Only	**0.005 (RL)**	DQR	**0.1**	MCL
cis-1,2-Dichloroethene	156-59-2	ug/L	53	1	0.229 J	5.00 (1/2 RL)	0.58	J-Flagged Only	**1.00 (RL)**	DQR	**70**	MCL
Cobalt	7440-48-4	mg/L	40	27	0.000046 J	0.008	0.00099		**0.008**	Non-Parametric (1-of-2)	**0.008**	Background
Copper	7440-50-8	mg/L	52	3	0.000867 J	0.0225	0.0043		**0.0225**	Non-Parametric (1-of-2)	**1.3**	MCL
delta-BHC	319-86-8	ug/L	42	2	0.00415 J	0.03555 (1/2 RL)	0.0204	J-Flagged Only	**0.0640 (RL)**	DQR	**2.1**	SS
Di-n-butylphthalate	84-74-2	ug/L	47	2	0.600 J	6.85 (1/2 RL)	5.32	J-Flagged Only	**9.62 (RL)**	DQR	**700**	SS
Di-n-octylphthalate	117-84-0	ug/L	20	1	1.42 J	13.5 (1/2 RL)	7.57	J-Flagged Only	**20.0 (RL)**	DQR	**140**	SS
Endosulfan I	959-98-8	ug/L	15	1	0.00517 J	0.0348 (1/2 RL)	0.018	J-Flagged Only	**0.064 (RL)**	DQR	**42**	SS
Ethylbenzene	100-41-4	ug/L	54	3	0.348 J	5.00 (1/2 RL)	0.60		**1.00 (RL)**	DQR	**700**	MCL
Heptachlor	76-44-8	ug/L	45	2	0.00799 J	0.03555 (1/2 RL)	0.0202	J-Flagged Only	**0.0640 (RL)**	DQR	**0.4**	MCL
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	20	1	0.299 J	6.75 (1/2 RL)	5.06	J-Flagged Only	**10.0 (RL)**	DQR	**0.24**	SS
Lead	7439-92-1	mg/L	51	11	0.00018 J	0.00695	0.00073		**0.00695**	Non-Parametric (1-of-2)	**0.015**	MCL
Lindane (BHC, Gamma-)	58-89-9	ug/L	15	1	0.00674 J	0.0348 (1/2 RL)	0.0181	J-Flagged Only	**0.064 (RL)**	DQR	**0.2**	MCL
m/p-Cresol	15831-10-4	ug/L	42	1	4.81 (1/2 RL)	404	15.0		**10.0 (RL)**	DQR	**70**	SS
Methoxychlor	72-43-5	ug/L	15	1	0.00279 J	0.0348 (1/2 RL)	0.0177	J-Flagged Only	**0.064 (RL)**	DQR	**40**	MCL
Methyl Parathion	298-00-0	ug/L	19	1	0.877 J	6.75 (1/2 RL)	5.05	J-Flagged Only	**10.0 (RL)**	DQR	**1**	SS
Nickel	7440-02-0	mg/L	52	22	0.000643 J	0.0522	0.0086		**0.0522**	Non-Parametric (1-of-2)	**0.1**	SS
Nitrobenzene	98-95-3	ug/L	20	1	0.226 J	6.75 (1/2 RL)	5.05	J-Flagged Only	**10.0 (RL)**	DQR	**14**	SS
Phenol	108-95-2	ug/L	39	1	4.81 (1/2 RL)	23.6	6.4		**10.0 (RL)**	DQR	**2,000**	SS
Selenium	7782-49-2	mg/L	52	28	0.000872 J	0.025 (1/2 RL)	0.0034	J-Flagged Only	**0.005 (RL)**	DQR	**0.05**	MCL
Silver	7440-22-4	mg/L	54	3	0.0000720 J	0.025 (1/2 RL)	0.0036	J-Flagged Only	**0.001 (RL)**	DQR	**0.1**	SS
Thallium	7440-28-0	mg/L	54	8	0.000046 J	0.001 (1/2 RL)	0.0006	J-Flagged Only	**0.001 (RL)**	DQR	**0.002**	MCL
Tin	7440-31-5	mg/L	54	2	0.0025 (1/2 RL)	0.152	0.0187		**0.152**	Non-Parametric (1-of-2)	**4.2**	SS
Toluene	108-88-3	ug/L	55	6	0.179 J	6.56 (1/2 RL)	0.71		**1.00 (RL)**	DQR	**1,000**	MCL

Table 5
Background and GWPS Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Constituent [1]	CAS #	Units	Samples	Detections [2]	Min [3]	Max [3]	Mean [3]	Note	Background Level	Statistical Test	GWPS	Source [4]
Interwell Background/GWPS (Aug. 2008 - Aug. 2024) - Upper Bedrock Monitoring Locations (Continued)												
Total Suspended Solids	TSS	mg/L	41	26	0.875 J	25.7	2.75		**N/A**	N/A	**N/A**	N/A
Trichloroethene	79-01-6	ug/L	53	1	0.208 J	5.00 (1/2 RL)	0.58	J-Flagged Only	**1.00 (RL)**	DQR	**5**	MCL
Vanadium	7440-62-2	mg/L	52	19	0.000503 J	0.025 (1/2 RL)	0.0078	J-Flagged Only	**0.005 (RL)**	DQR	**0.035**	SS
Xylenes, Total	1330-20-7	ug/L	54	4	0.262 J	15.0 (1/2 RL)	1.86		**3.00 (RL)**	DQR	**10,000**	MCL
Zinc	7440-66-6	mg/L	54	7	0.005 (1/2 RL)	0.0805	0.0145		**0.0805**	Non-Parametric (1-of-2)	**2**	SS
Interwell Background/GWPS (Aug. 2008 - Aug. 2024) - Deeper Bedrock Monitoring Locations												
2,4,5-TP (Silvex)	93-72-1	ug/L	42	1	0.05 (1/2 RL)	2.14	0.522	J-Flagged Only	**1.07**	DQR	**50**	MCL
4,4'-DDD	72-54-8	ug/L	11	1	0.00206 J	0.0195 (1/2 RL)	0.0152	J-Flagged Only	**0.0376 (RL)**	DQR	**0.73**	SS
Acetonitrile	75-05-8	ug/L	10	1	3.64 J	5.0 (1/2 RL)	4.86	J-Flagged Only	**10.0 (RL)**	DQR	**N/A**	N/A
Antimony	7440-36-0	mg/L	51	2	0.000185 J	0.0101	0.00128		**0.0101**	Non-Parametric (1-of-2)	**0.006**	MCL
Arsenic	7440-38-2	mg/L	53	33	0.0005 (1/2 RL)	0.00225	0.00104		**0.00225**	Non-Parametric (1-of-2)	**0.01**	MCL
Barium	7440-39-3	mg/L	49	49	0.0402	0.138	0.0710		**0.138**	Non-Parametric (1-of-2)	**2**	MCL
Bis(2-ethylhexyl)phthalate	117-81-7	ug/L	53	4	0.423 J	25.4	5.91		**25.4**	Non-Parametric (1-of-2)	**6**	MCL
Cadmium	7440-43-9	mg/L	50	1	0.00005 (1/2 RL)	0.000824	0.000180		**0.000824**	Non-Parametric (1-of-2)	**0.005**	MCL
Chromium	7440-47-3	mg/L	53	2	0.000468 J	0.025 (1/2 RL)	0.0051	J-Flagged Only	**0.005 (RL)**	DQR	**0.1**	MCL
Cobalt	7440-48-4	mg/L	40	33	0.000099 J	0.000948	0.00029		**0.0008717**	Parametric (Lognormal, 1-of-2)	**0.0021**	SS
Copper	7440-50-8	mg/L	52	1	0.001 (1/2 RL)	0.0108	0.0043		**0.0108**	Non-Parametric (1-of-2)	**1.3**	MCL
Dieldrin	60-57-1	ug/L	20	1	0.0029 J	0.0195 (1/2 RL)	0.0160	J-Flagged Only	**0.0376 (RL)**	DQR	**0.011**	SS
Di-n-butylphthalate	84-74-2	ug/L	27	4	0.618 J	5.9 (1/2 RL)	4.71	J-Flagged Only	**11.8 (RL)**	DQR	**700**	SS
Di-n-octylphthalate	117-84-0	ug/L	19	1	1.73 J	11.75 (1/2 RL)	7.32	J-Flagged Only	**23.5 (RL)**	DQR	**140**	SS
Disulfoton	298-04-4	ug/L	20	1	1.11 J	35.0 (1/2 RL)	9.52	J-Flagged Only	**11.8 (RL)**	DQR	**0.7**	SS
Isosafrole	120-58-1	ug/L	20	2	0.184 J	5.9 (1/2 RL)	4.73	J-Flagged Only	**11.8 (RL)**	DQR	**N/A**	N/A
Lead	7439-92-1	mg/L	50	1	0.000117 J	0.002 (1/2 RL)	0.00060	J-Flagged Only	**0.0005 (RL)**	DQR	**0.015**	MCL
m/p-Cresol	15831-10-4	ug/L	22	1	0.255 J	5.9 (1/2 RL)	5.03	J-Flagged Only	**11.8 (RL)**	DQR	**70**	SS
Methoxychlor	72-43-5	ug/L	11	1	0.00633 J	0.0195 (1/2 RL)	0.0156	J-Flagged Only	**0.0376 (RL)**	DQR	**40**	MCL
Nickel	7440-02-0	mg/L	40	19	0.000748 J	0.00735	0.0027		**0.00735**	Non-Parametric (1-of-2)	**0.1**	SS
Selenium	7782-49-2	mg/L	53	18	0.00101 J	0.025 (1/2 RL)	0.0035	J-Flagged Only	**0.005 (RL)**	DQR	**0.05**	MCL
Silver	7440-22-4	mg/L	53	1	0.000111 J	0.025 (1/2 RL)	0.0037	J-Flagged Only	**0.001 (RL)**	DQR	**0.1**	SS
Thallium	7440-28-0	mg/L	53	7	0.000033 J	0.001 (1/2 RL)	0.0006	J-Flagged Only	**0.001 (RL)**	DQR	**0.002**	MCL
Tin	7440-31-5	mg/L	53	2	0.0025 (1/2 RL)	0.109	0.0163		**0.109**	Non-Parametric (1-of-2)	**4.2**	SS
Toluene	108-88-3	ug/L	52	2	0.315 J	0.50 (1/2 RL)	0.49	J-Flagged Only	**1.00 (RL)**	DQR	**1,000**	MCL
Total Suspended Solids	TSS	mg/L	40	7	0.75 J	34.9	1.95		**N/A**	N/A	**N/A**	N/A
Vanadium	7440-62-2	mg/L	53	1	0.000489 J	0.025 (1/2 RL)	0.0080	J-Flagged Only	**0.005 (RL)**	DQR	**0.035**	SS
Xylenes, Total	1330-20-7	ug/L	52	3	0.155 J	1.50 (1/2 RL)	1.45	J-Flagged Only	**3.00 (RL)**	DQR	**10,000**	MCL
Zinc	7440-66-6	mg/L	53	5	0.005 (1/2 RL)	0.0366	0.0113		**0.0366**	Non-Parametric (1-of-2)	**2**	SS

Table 5
Background and GWPS Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Comments:

N/A = not applicable

RL = reporting limit taken as the laboratory practical quantitation limit (PQL)

(1) List contains constituents detected above the laboratory minimum detection limit (MDL) in the background data sets after data set adjustments detailed in the Appendix B statistical reports were conducted (i.e., removal of background data based on turbidity and elevated PQLs). Background data set adjustments are listed as crossed-out concentrations in Table 14 and were removed from the background data set prior to conducting statistical analyses.

(2) The number of detections includes J-flagged data (concentrations above the MDL but below the RL).

(3) Non-detect concentrations are included in the calculation of minimum, maximum, and mean; 1/2 the RL was utilized for non-detect concentrations.

(4) Sources are either the Maximum Contaminant Level promulgated under Section 1412 of the Safe Drinking Water Act in 40 CFR Part 141 (MCL) or the 567 IAC Chapter 137 Statewide Standards for a Protected Groundwater Source (SS). If background is higher than the MCL or SS, the GWPS is background. Background as the GWPS is both the *two-sample* test prediction limit method and the *one-sample* test confidence limit method where the fixed GWPS is the background upper tolerance limit with 95% confidence and 95% coverage. N/A = not applicable; constituent does not have a MCL or SS and using background as the GWPS is not applicable due to limited detections.

• The background data sets consist of MW-37 and MW-101A for upper bedrock and MW-38 and MW-101B for deeper bedrock. No background data set adjustments were made in 2024. The previous background data set adjustments detailed in the statistical reports provided in Appendix B and listed as crossed-out concentrations in Table 14 were maintained in 2024.

• No new constituents were detected at the upper and deeper bedrock background monitoring locations in 2024.

Table 6
Summary of Well/Detected Constituent Pairs With No Previous SSIs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Constituent [1]	Units	Most Recent Result (Aug. 2024)	Background Standard [2]
Deeper Bedrock Monitoring Locations				
Detection Monitoring Locations				
MW-31	Barium	mg/L	0.0961	0.138
	Total Suspended Solids	mg/L	2.13	N/A

* Current result is above background, if confirmed by retest sample(s) an SSI will be identified (1-of-2 retesting plan for groundwater prediction limits and DQR constituents).

** Current result is a confirmed SSI. Appendix II sampling will be completed within 90 days.

Comments:

[1] List contains constituents detected above the laboratory method detection limit (MDL) and includes J-flagged concentrations.

[2] Source of background standards are presented in Table 5. If a constituent isn't listed in Table 5, indicating the constituent hasn't been detected in background, then the background standard is the laboratory reporting limit.

• No SSIs were identified at deeper bedrock detection monitoring well MW-31. The future sampling schedule is provided in Table 1.

Summary of Prediction Limits and Health Standards
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

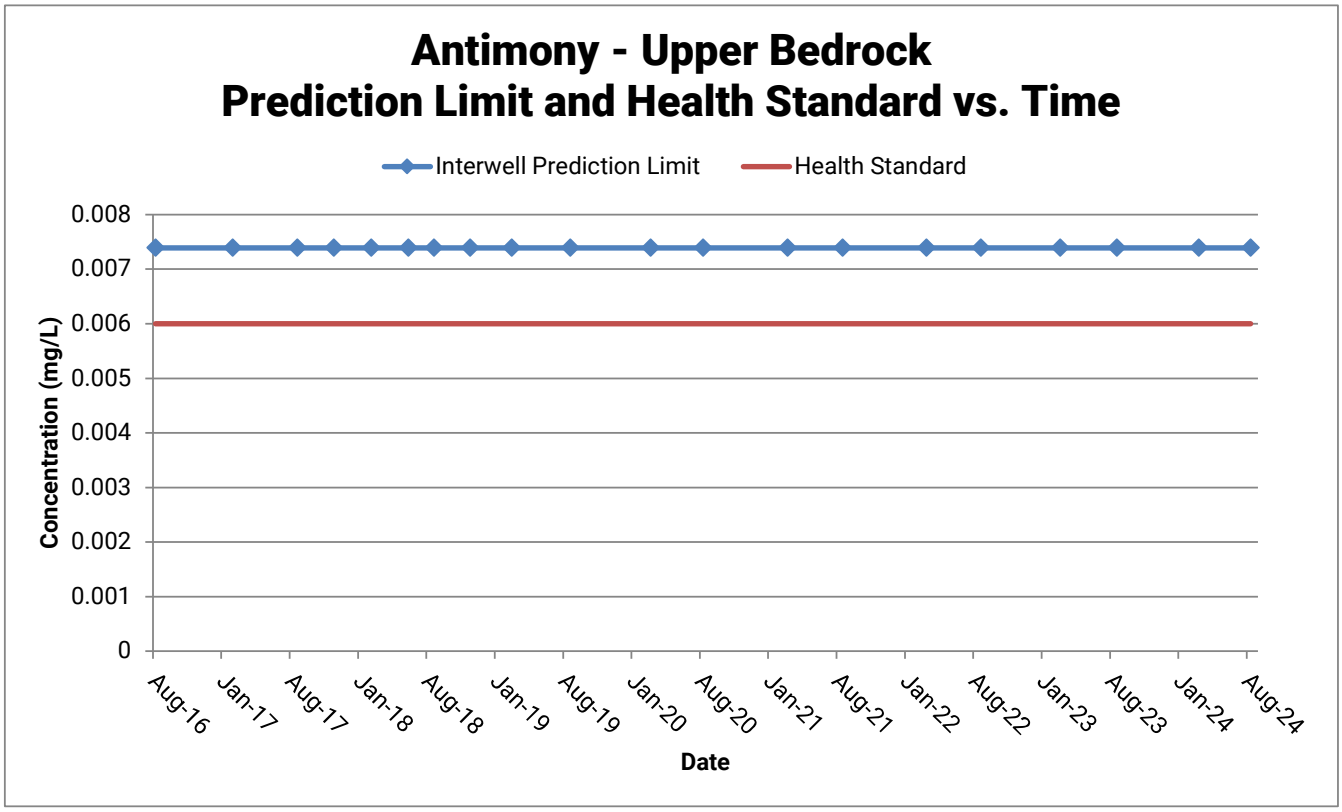
Comments:

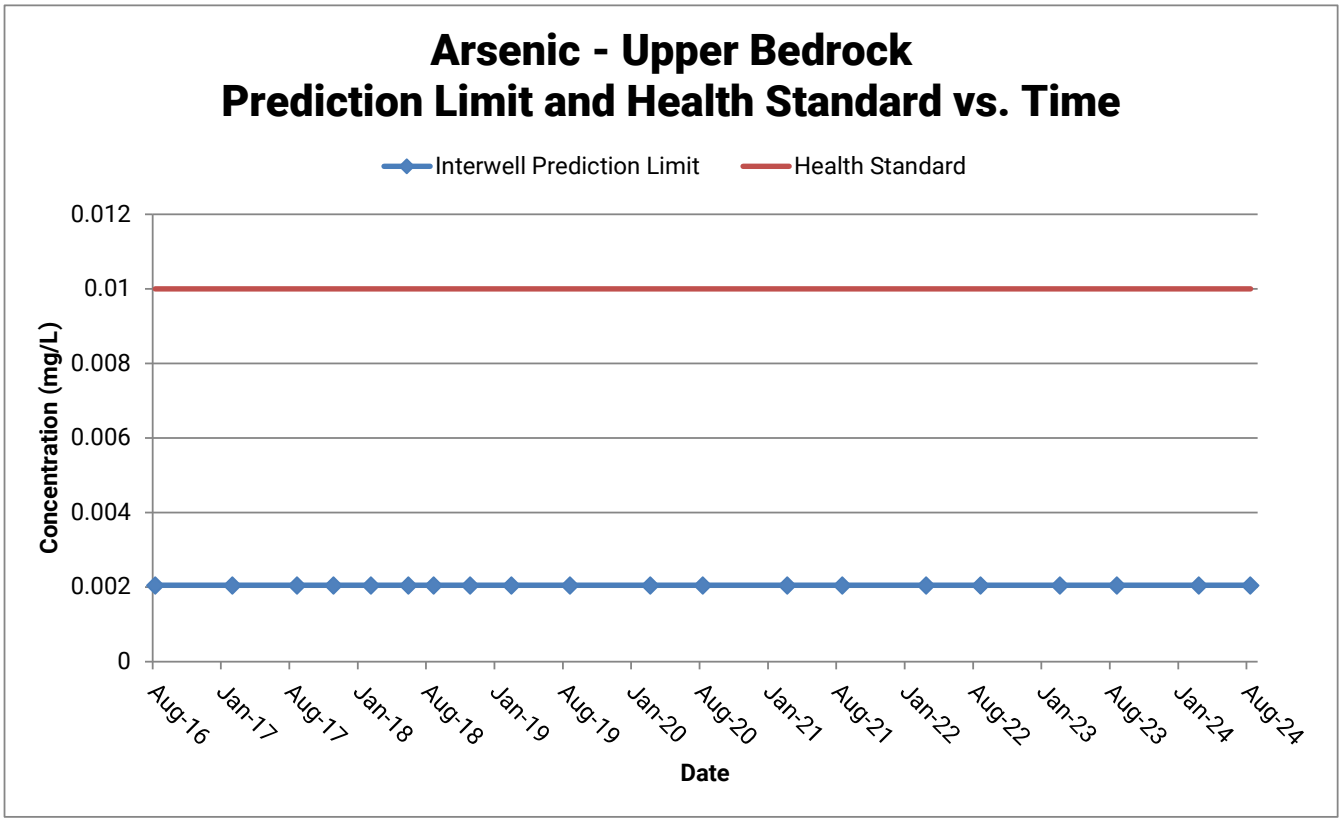
• The following graphs depict the interwell prediction limits for upper bedrock and deeper bedrock calculated for statistical analyses starting with the Fall 2016 statistical evaluation. Note that the Fall 2016 statistical evaluation was when data set adjustments due to sampling technique changes were implemented.

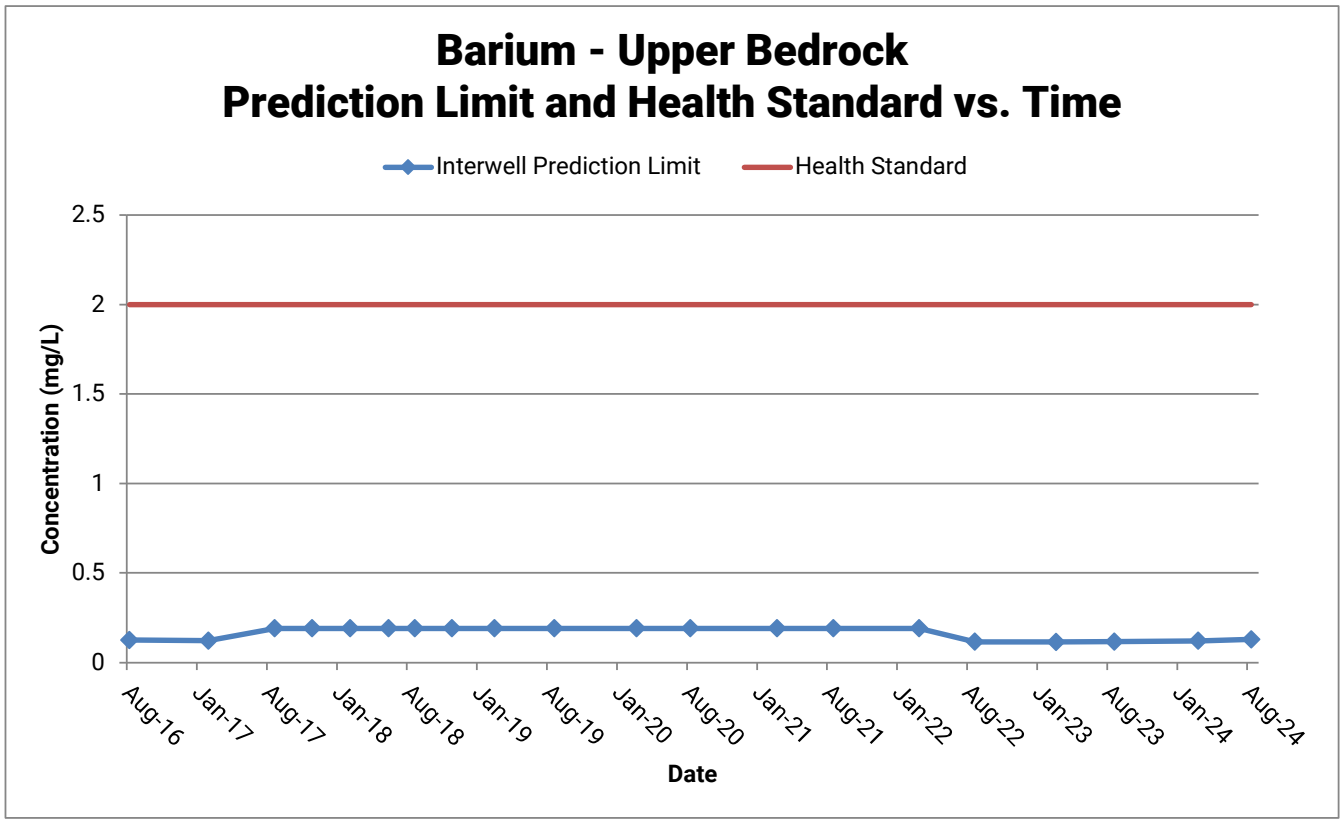
• Wells included in the background data sets and the sources of the background and health standards are presented in Table 5.

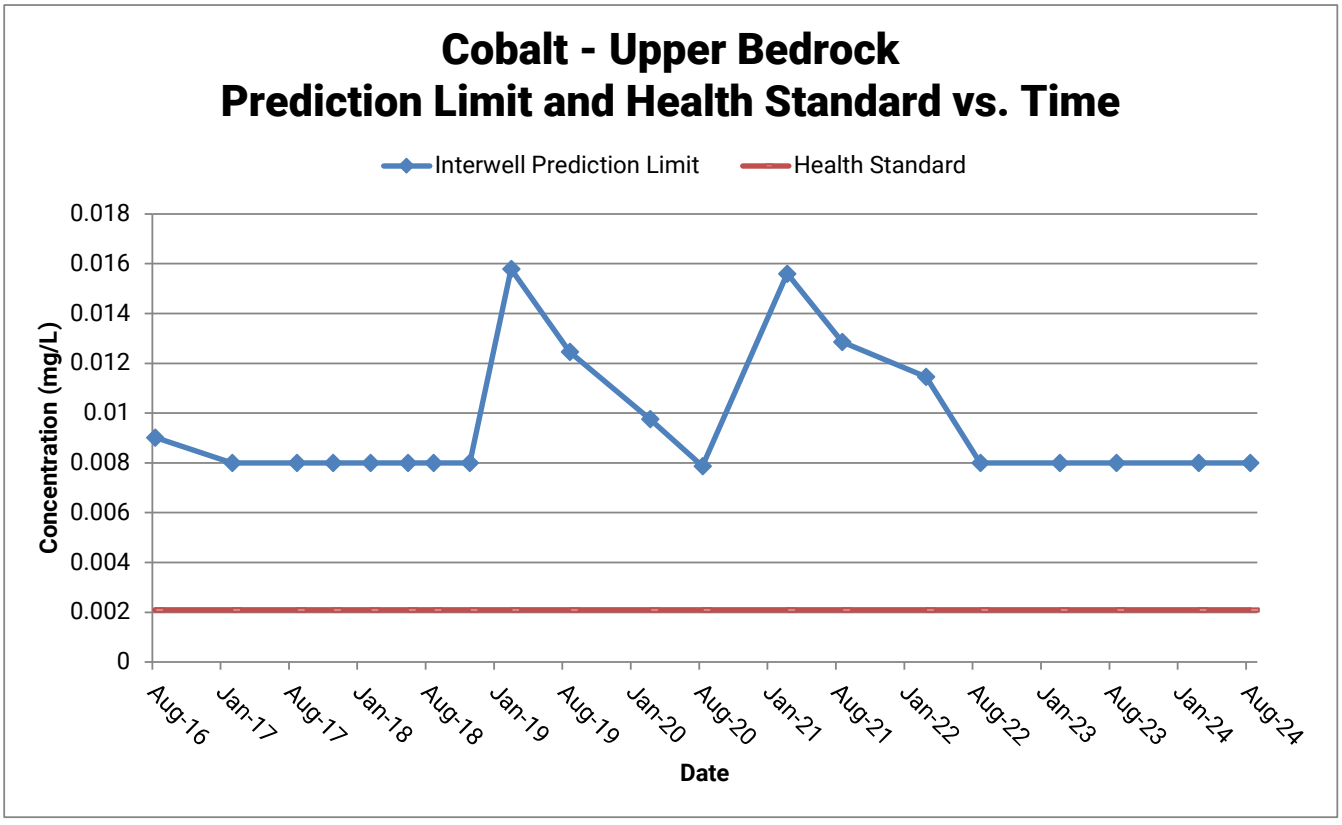
• For cobalt in upper bedrock, a notable increase in the prediction limit occurred with the Spring 2019 statistical evaluation due to a change from a non-parametric to a lognormal parametric method. A decreasing trend in the lognormal parametric prediction limit occurred between Spring 2019 and Fall 2020, with the Fall 2020 prediction limit nearly equal to the non-parametric limit utilized prior to Spring 2019. The decreasing trend occurred due to the increasing number of background samples utilized to calculate the lognormal parametric prediction limit and not due to decreasing trends in the background upper bedrock cobalt data. Another shift in the lognormal parametric prediction limit occurred between Fall 2020 and Spring 2021. The increased lognormal parametric prediction limit in Spring 2021 resulted from changes in the statistical configuration; specifically, changing from a 1-of-3 to a 1-of-2 retesting plan and changing the number of well/constituents pairs statistically evaluated with the implementation of the monitoring frequency optimizations. A decreasing trend in the lognormal prediction limit occurred between Spring 2021 and Spring 2022, which is again attributed to increasing background sample size for calculating the lognormal parametric prediction limit and not due to decreasing trends in the background upper bedrock cobalt data. In Fall 2022, the upper bedrock cobalt prediction limit changed from a lognormal parametric method to a non-parametric method again because normality could not be met. Cobalt continued to be analyzed using the non-parametric method through Fall 2024; therefore, the prediction limit has remained the same.

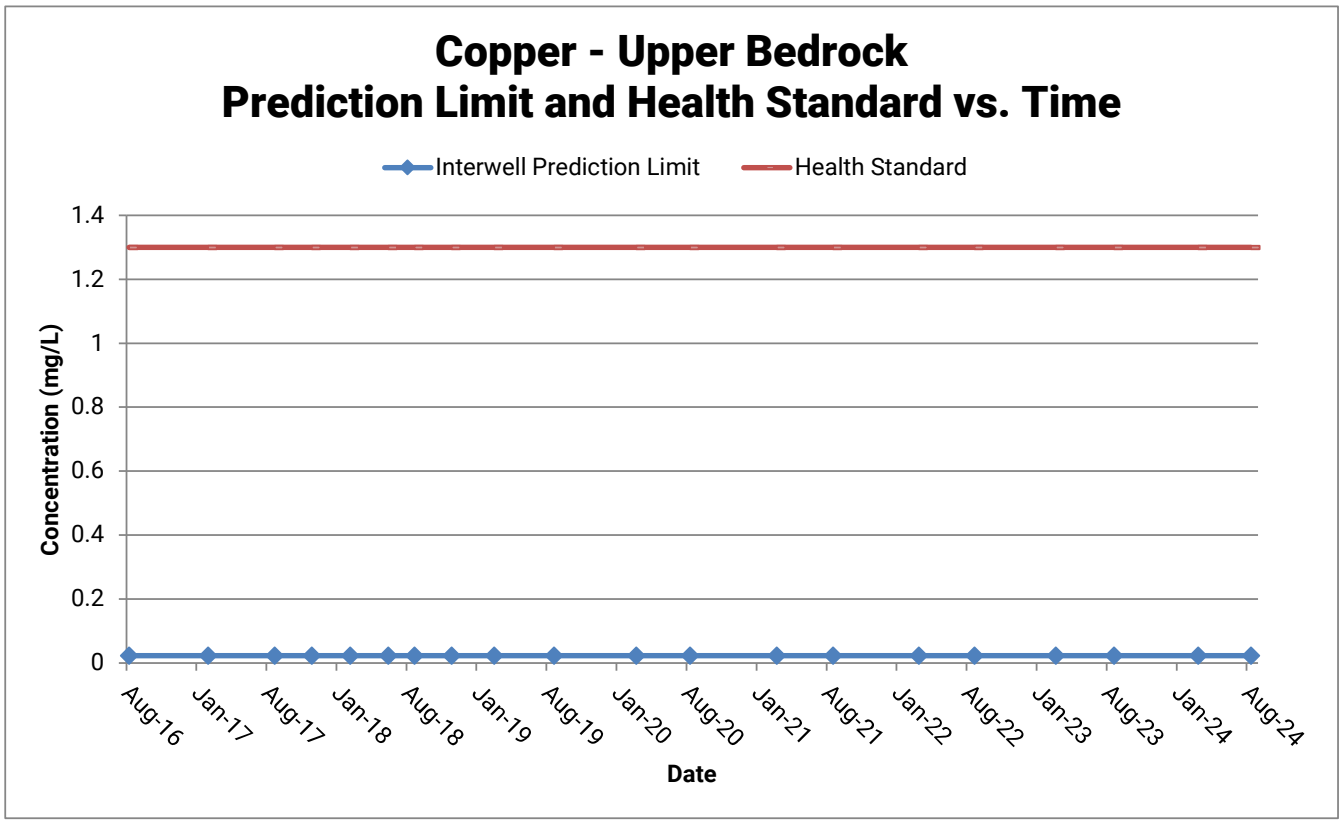
• The decreasing trend in the prediction limit for cobalt in deeper bedrock from Spring 2017 to Fall 2020 is attributed to the relatively small background sizes evaluated using lognormal parametric methods and not to decreasing trends in the individual well/analyte data. As occurred with the upper bedrock prediction limit for cobalt, an increase in the lognormal parametric prediction limit occurred in Spring 2021 as a result of changes in the statistical configuration; specifically, changing from a 1-of-3 to a 1-of-2 retesting plan and changing the number of well/constituents pairs statistically evaluated with the implementation of the monitoring frequency optimizations. The lognormal prediction limit remained fairly stable between Spring 2021 and Fall 2024.

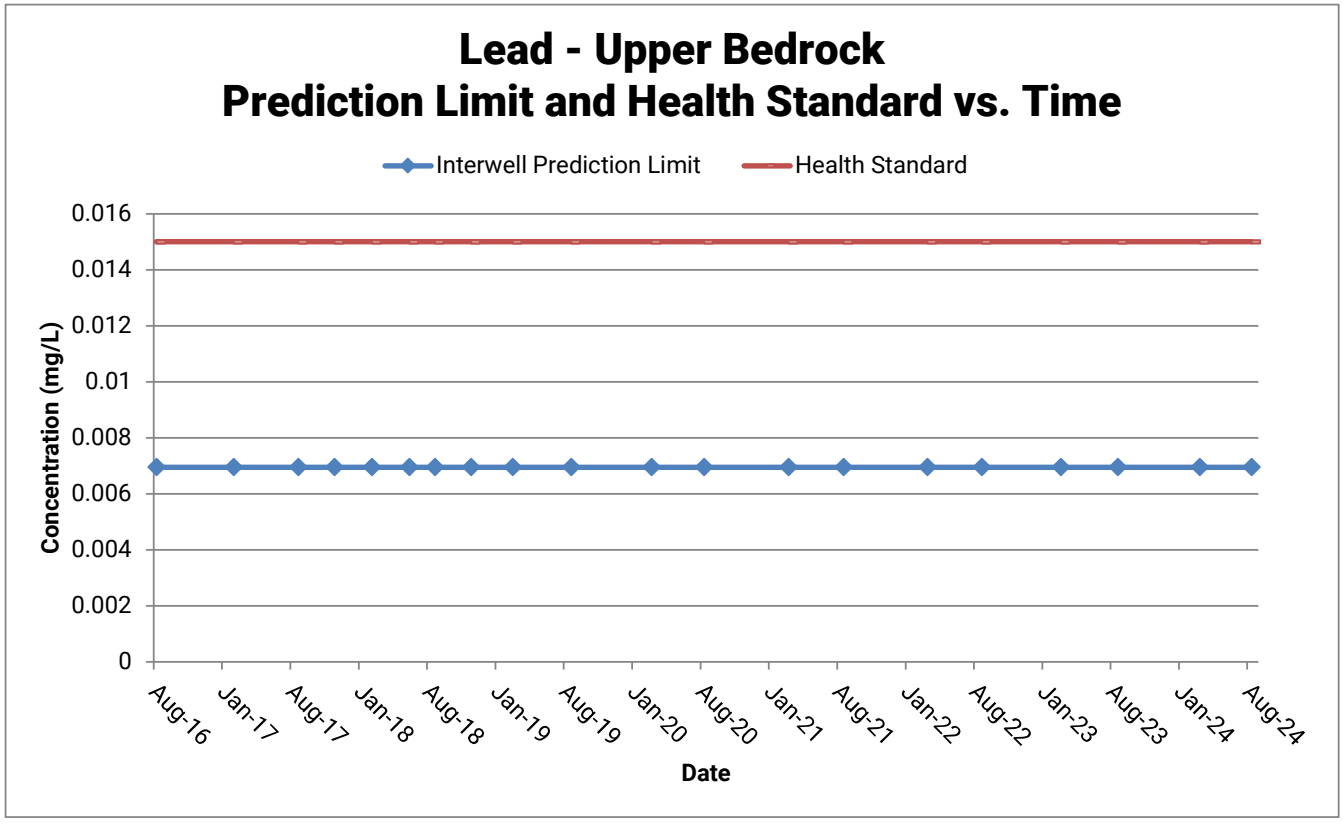

Antimony - Upper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

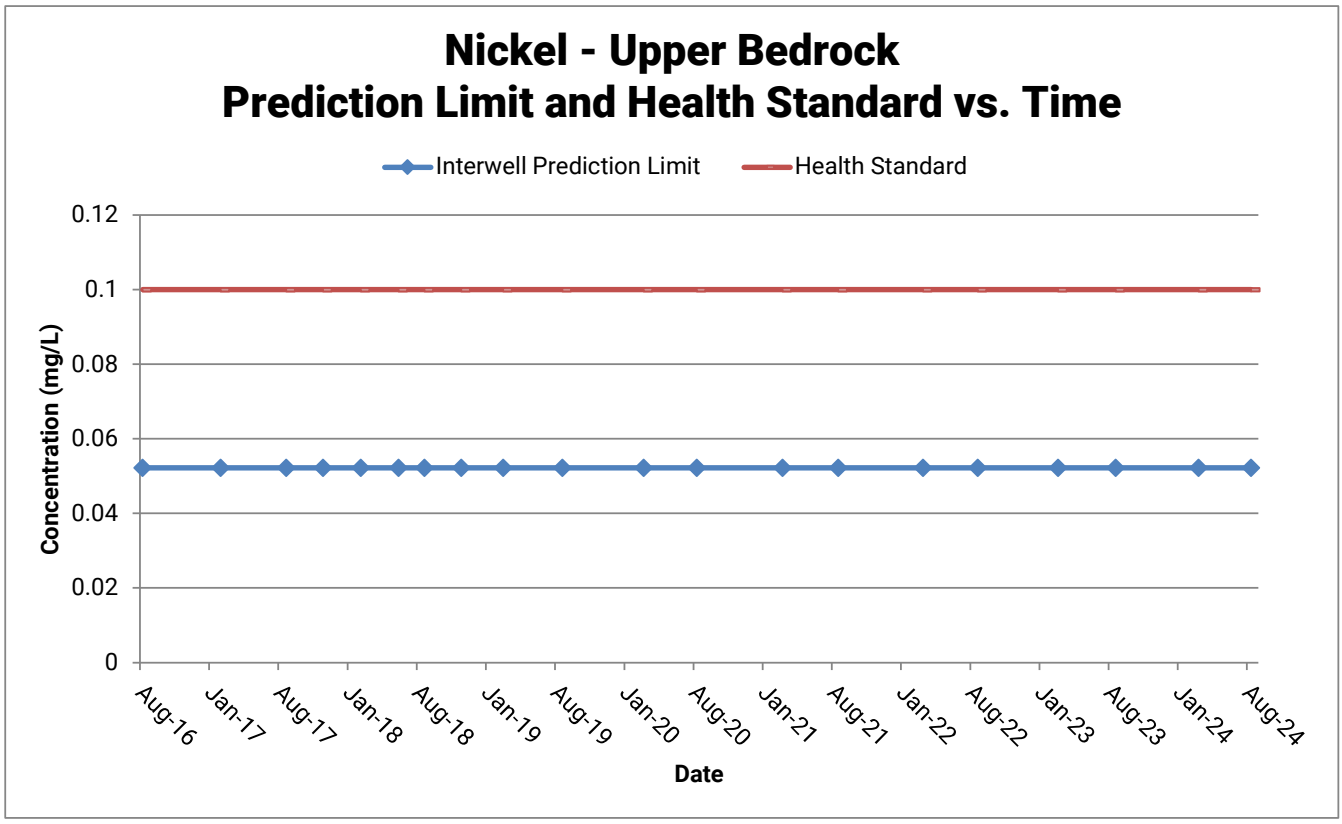

Arsenic - Upper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
0.012
0.01
0.008
0.006
0.004
0.002
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

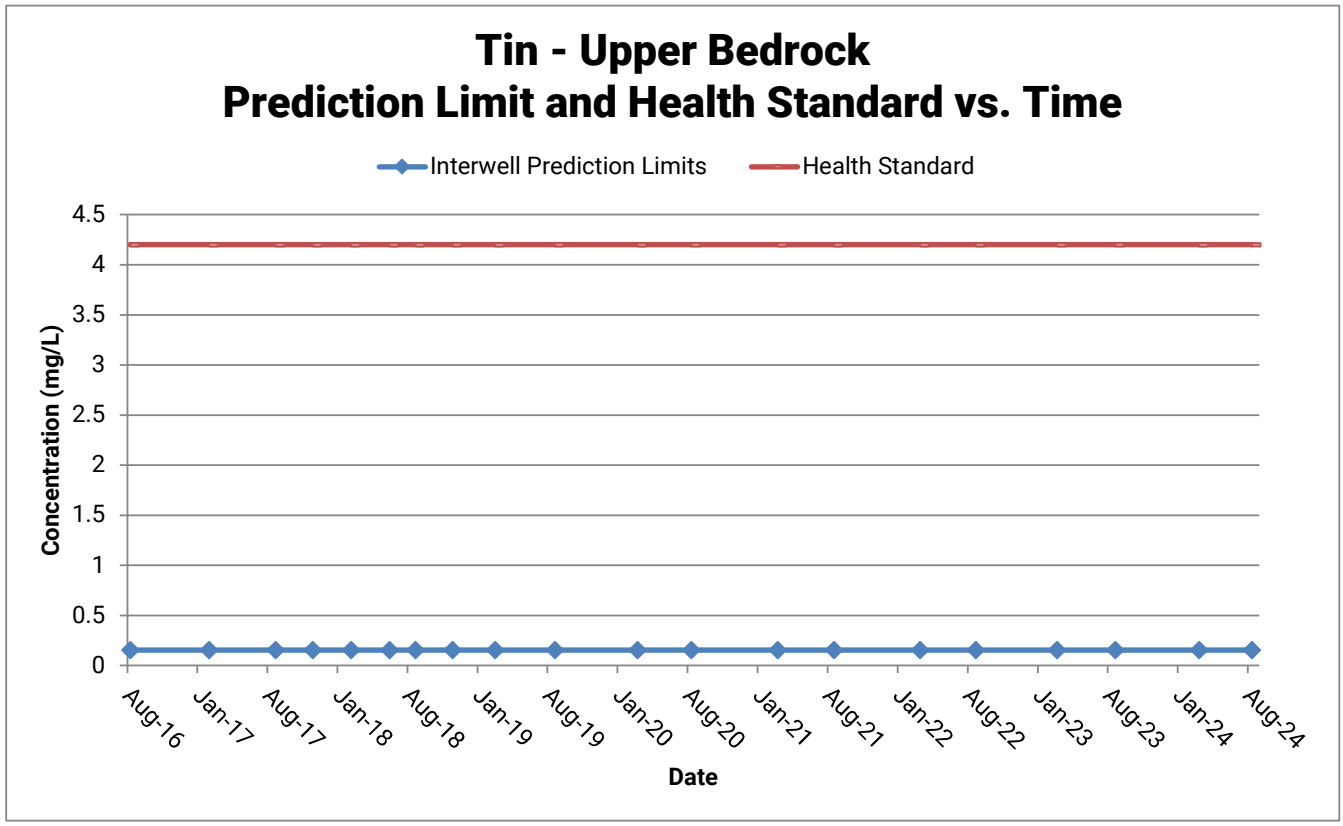

Barium - Upper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
Concentration (mg/L)
2.5
2
1.5
1
0.5
0
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

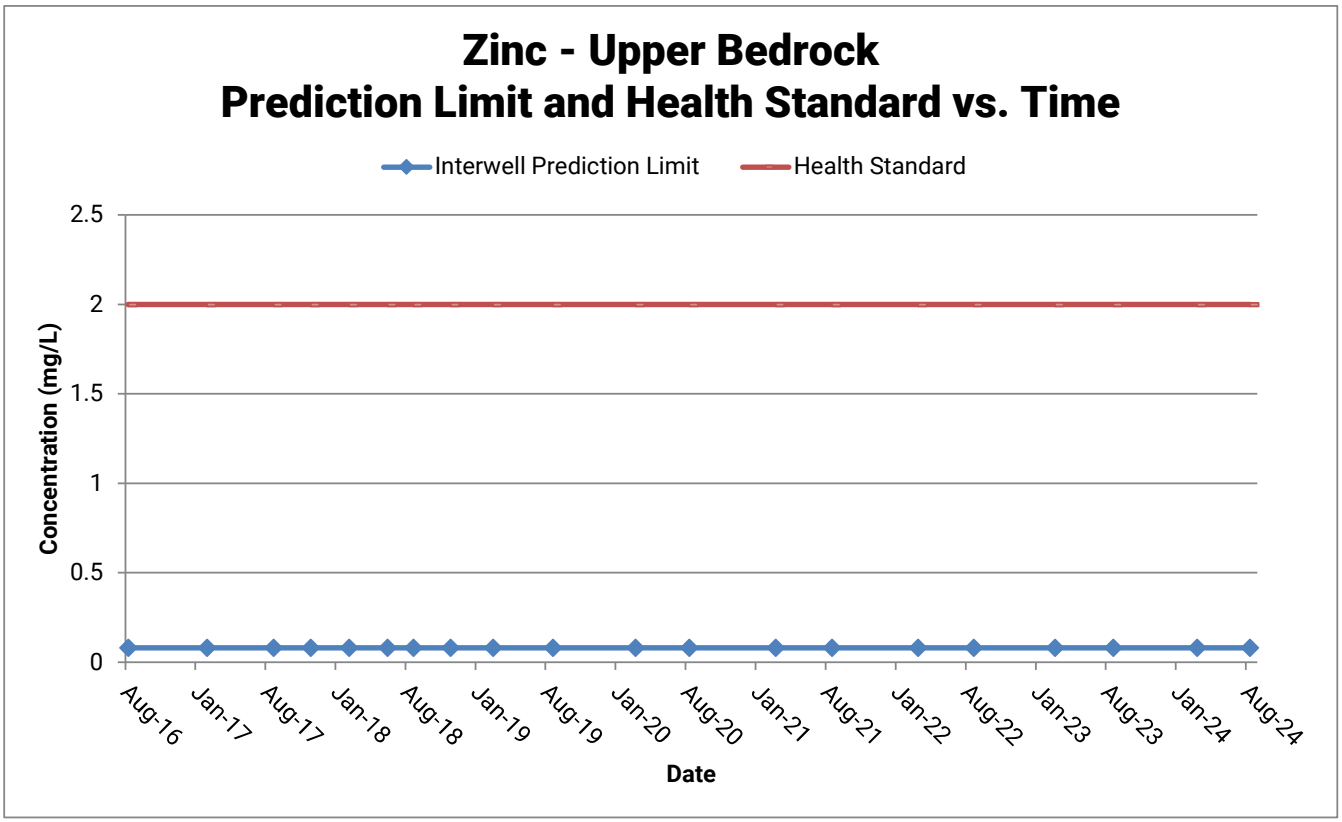

Cobalt - Upper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
Concentration (mg/L)
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

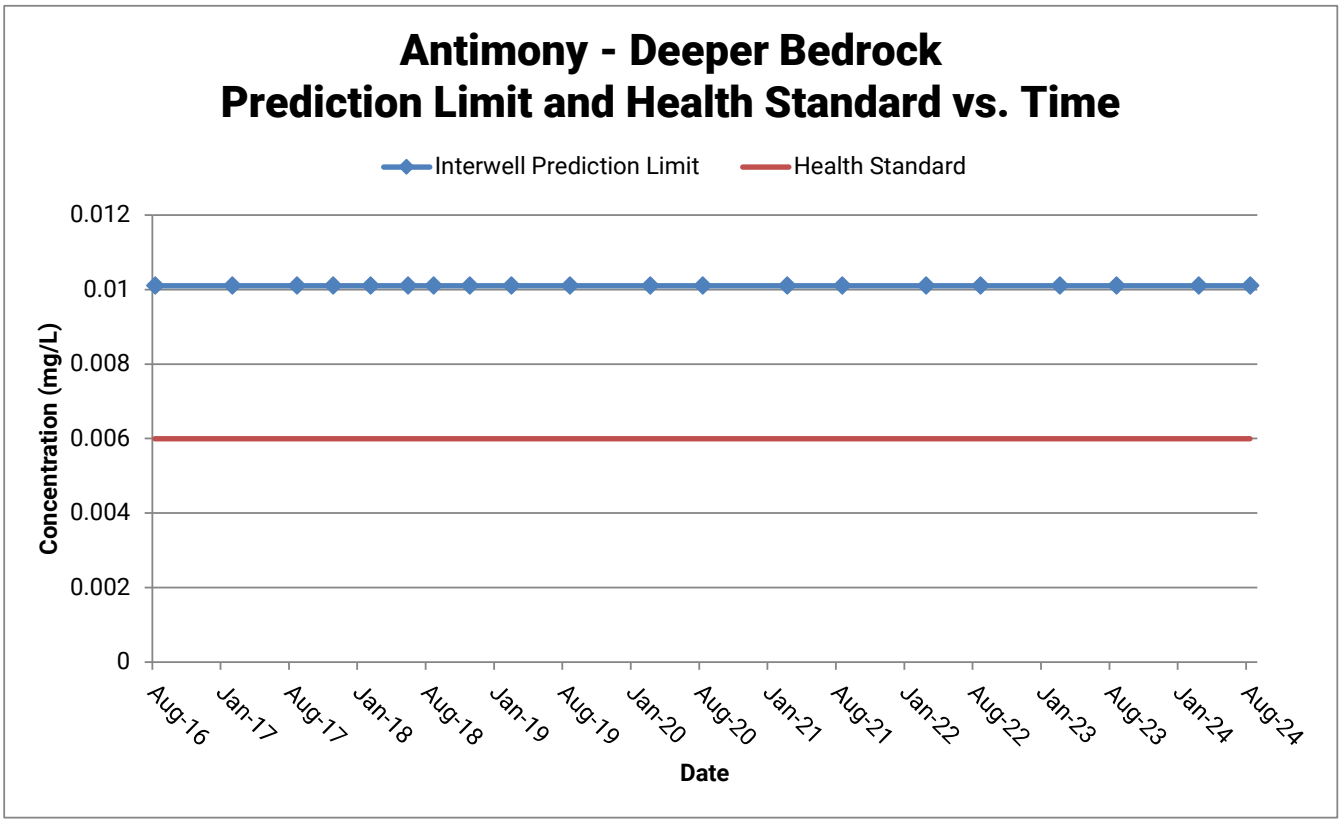

Copper - Upper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
Concentration (mg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

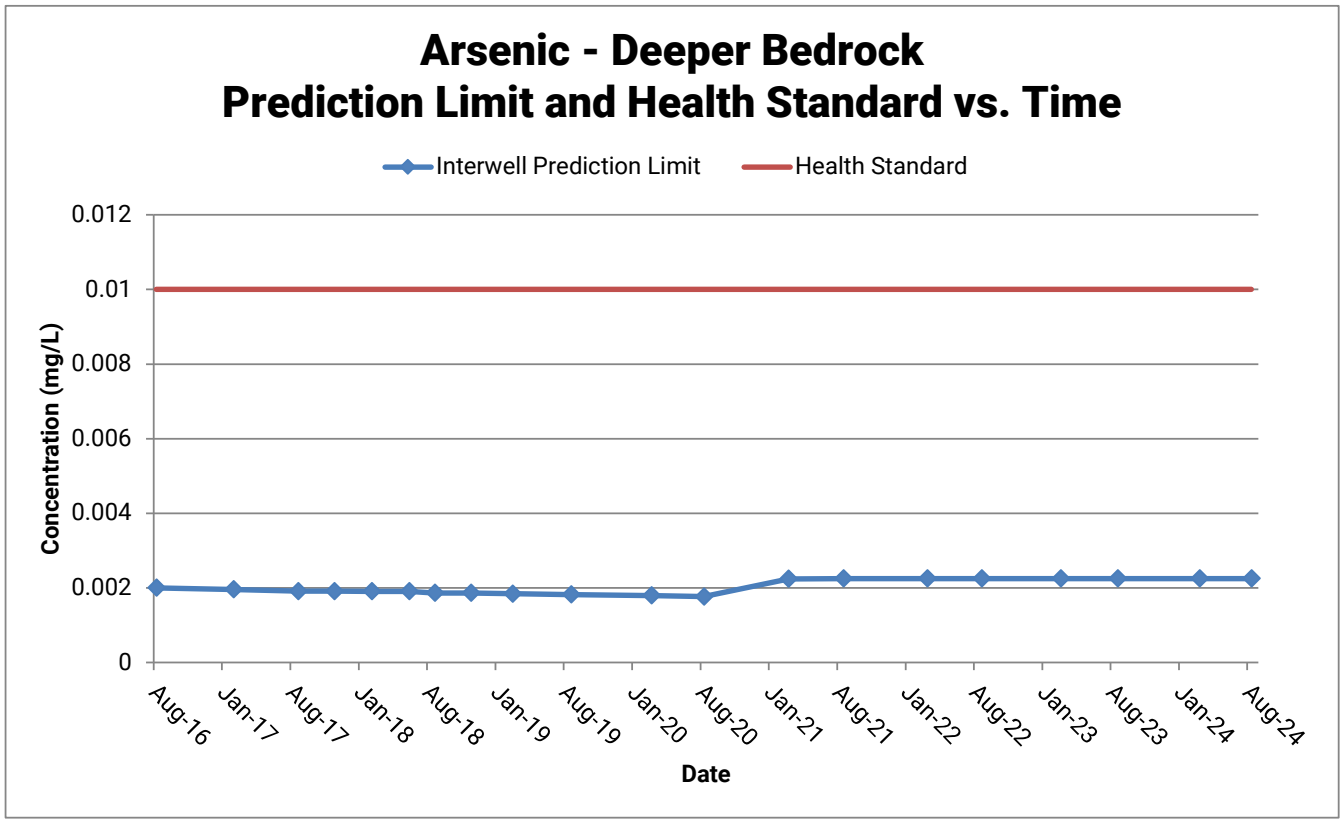

Lead - Upper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
Concentration (mg/L)
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

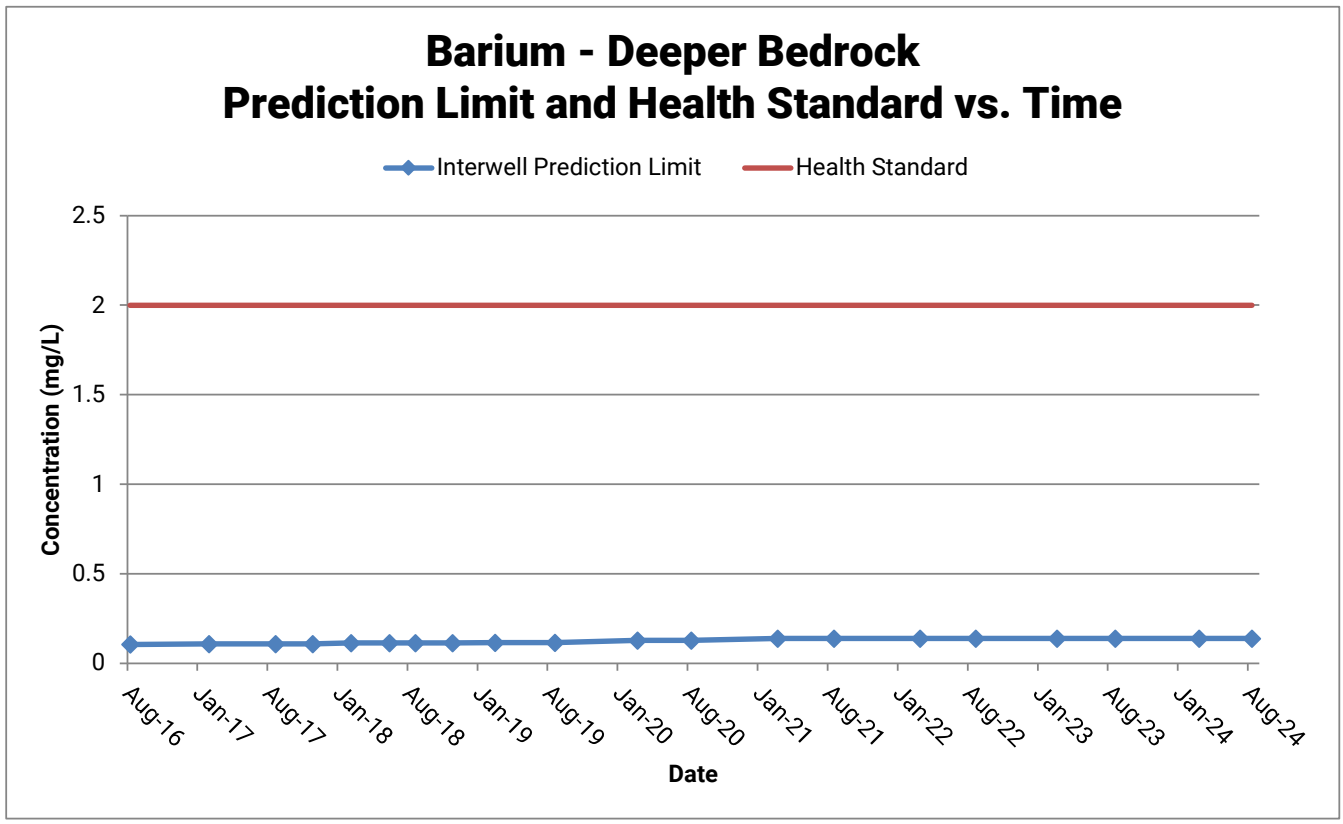

Nickel - Upper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
0.12
0.1
0.08
0.06
0.04
0.02
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

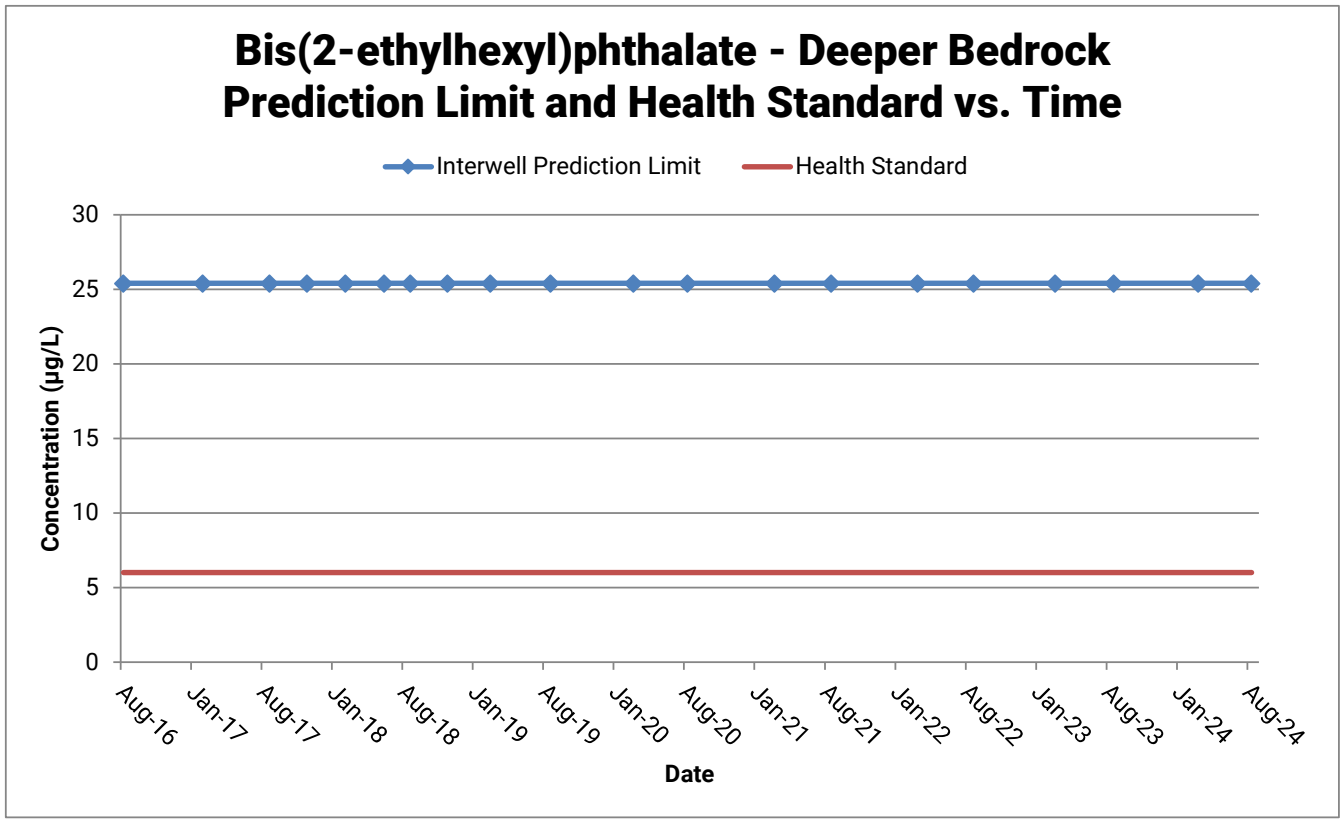

Tin - Upper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limits
Health Standard
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

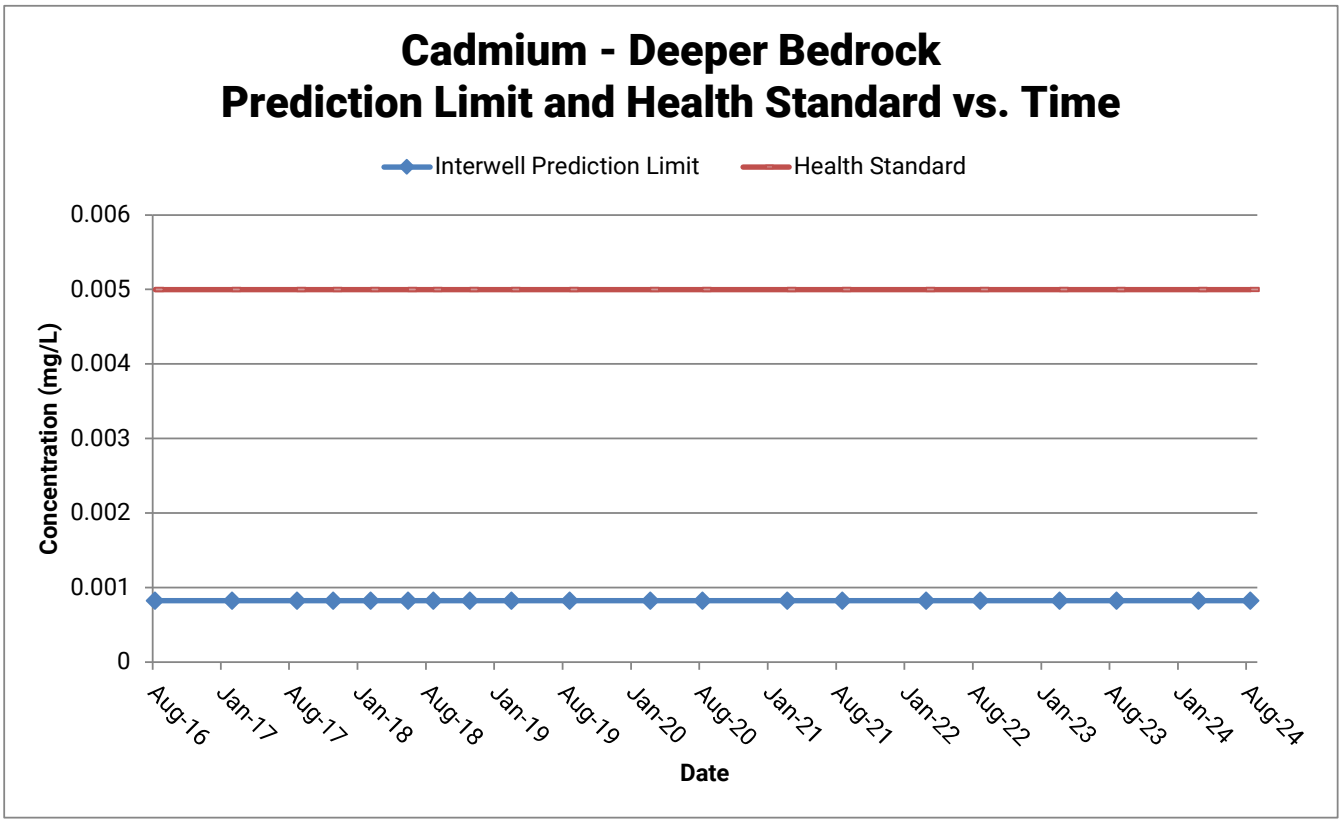

Zinc - Upper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
Concentration (mg/L)
2.5
2
1.5
1
0.5
0
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

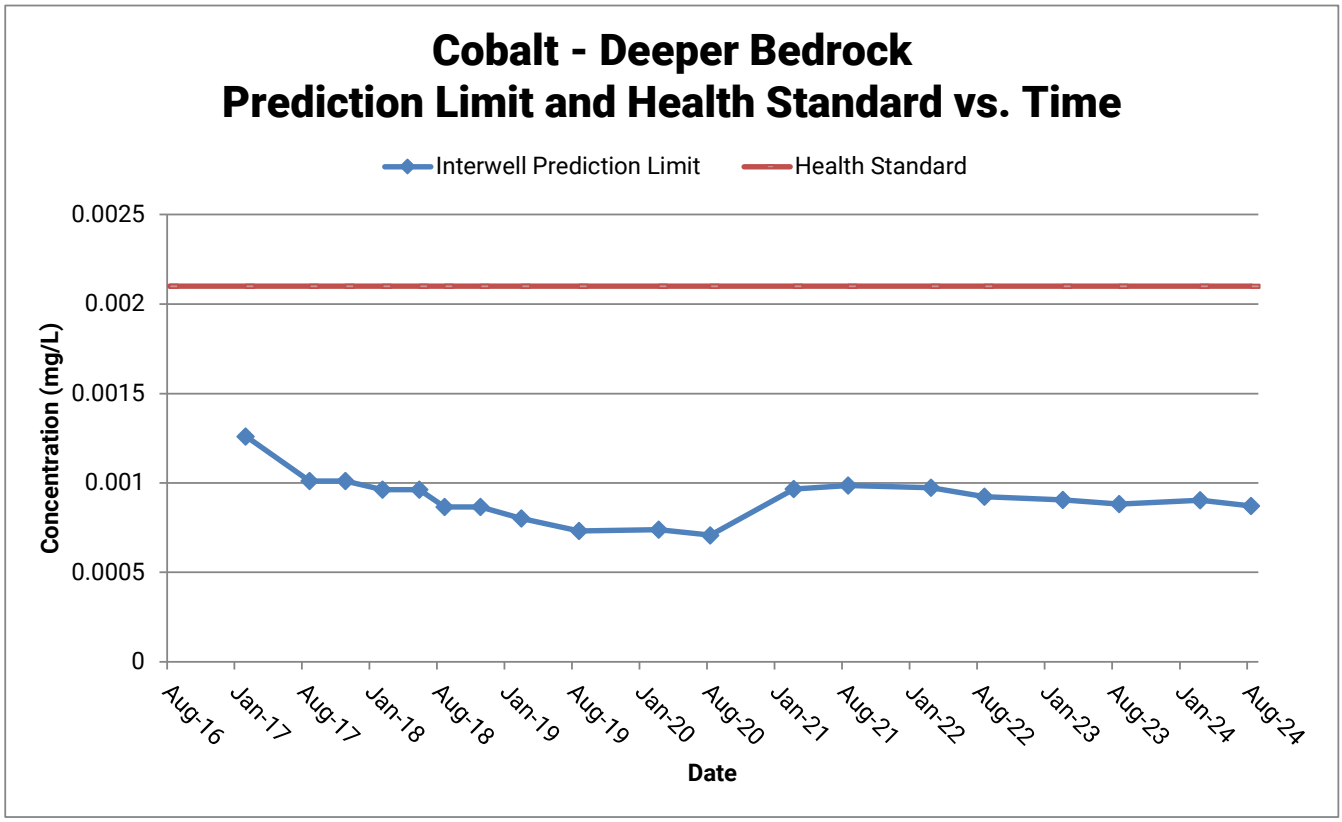

Antimony - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
Concentration (mg/L)
0.012
0.01
0.008
0.006
0.004
0.002
0
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

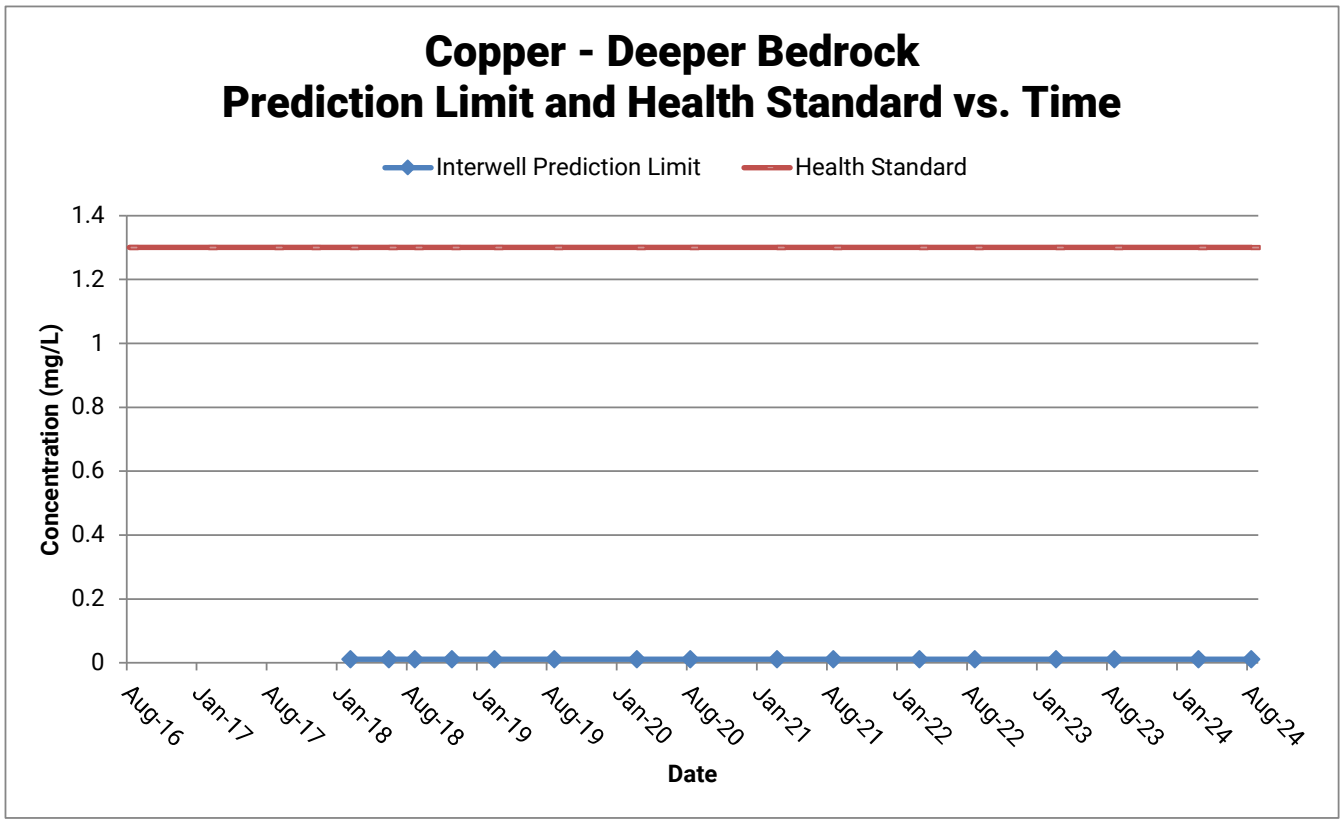

Arsenic - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
0.012
0.01
0.008
0.006
0.004
0.002
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

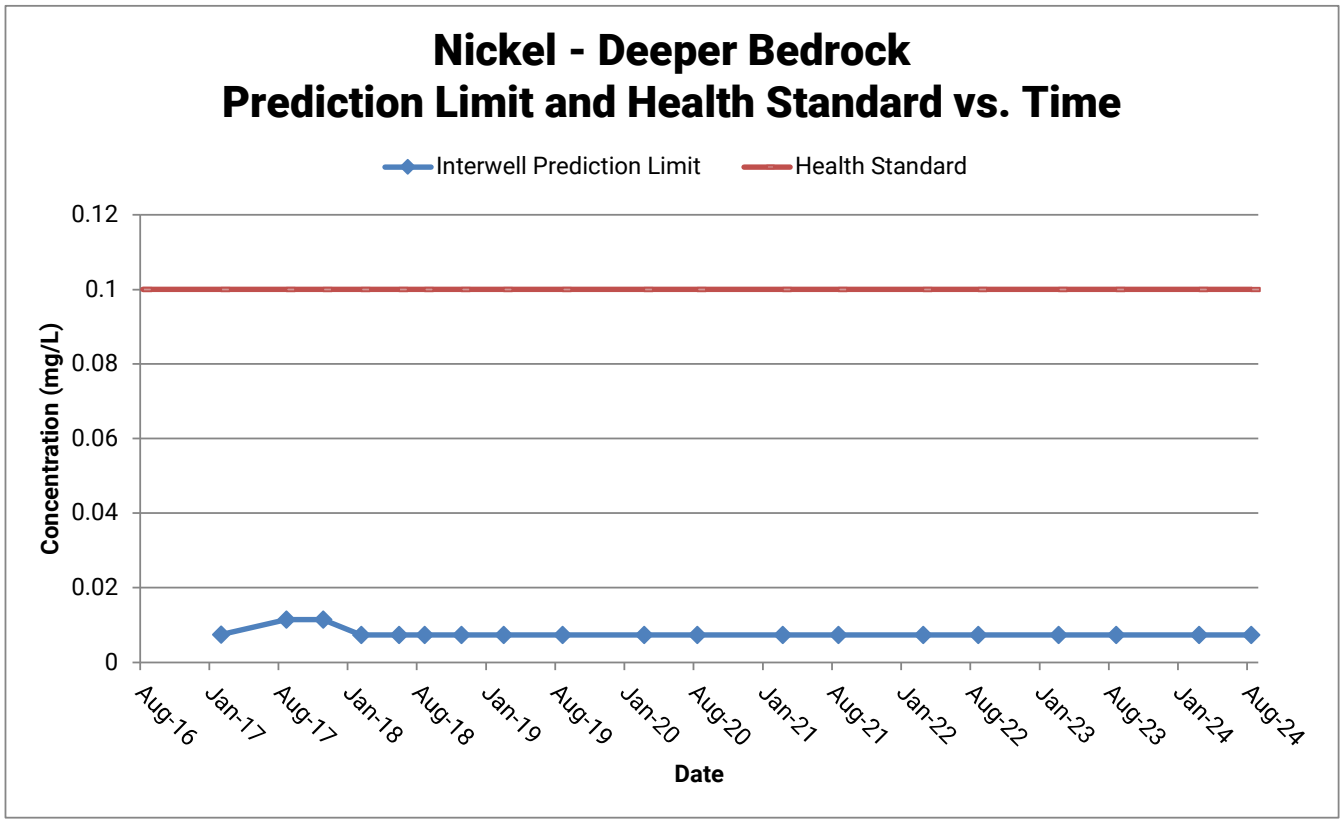

Barium - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
2.5
2
1.5
1
0.5
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

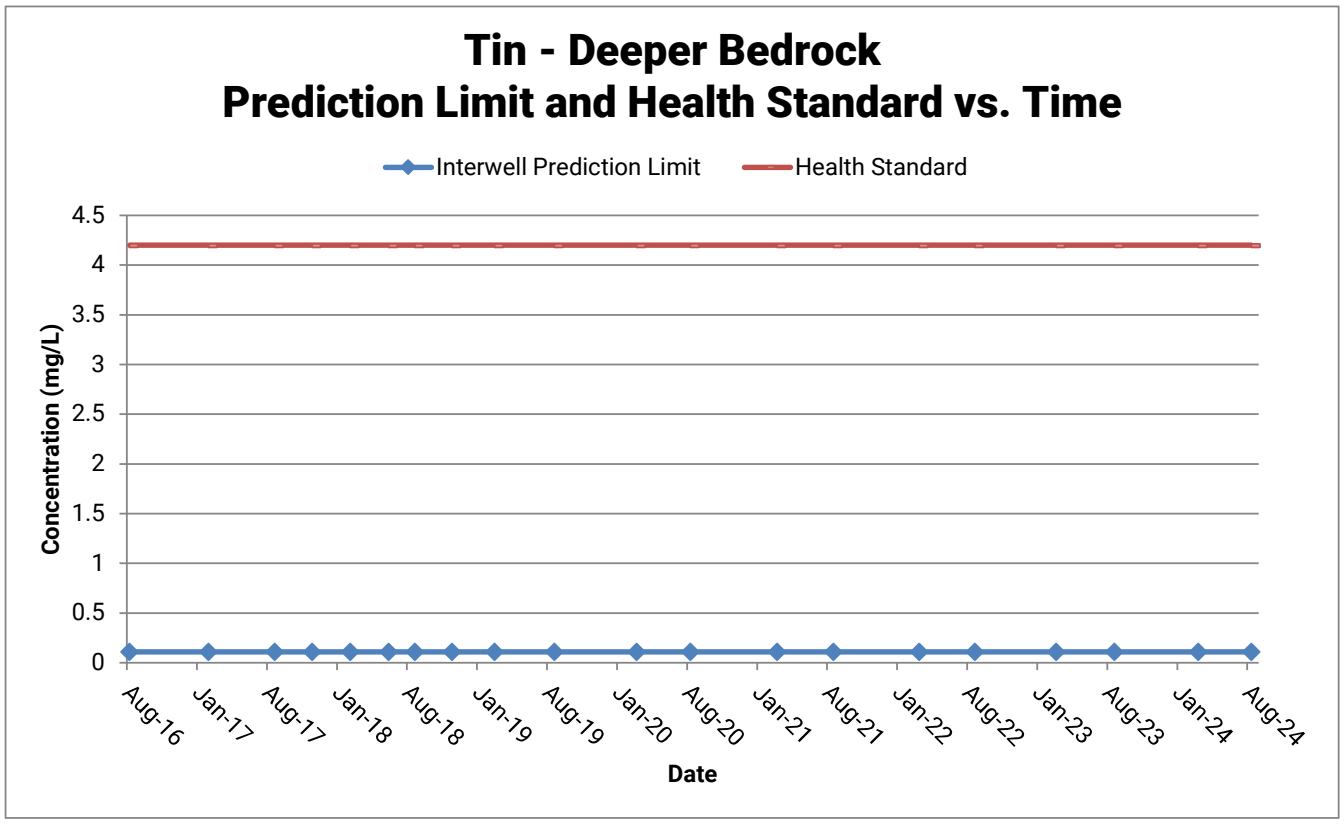

Bis(2-ethylhexyl)phthalate - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
Concentration (µg/L)
30
25
20
15
10
5
0
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date


Cadmium - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
Concentration (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date


Cobalt - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
0.0025
0.002
0.0015
0.001
0.0005
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date


Copper - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date


Nickel - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
0.12
0.1
0.08
0.06
0.04
0.02
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date


Tin - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

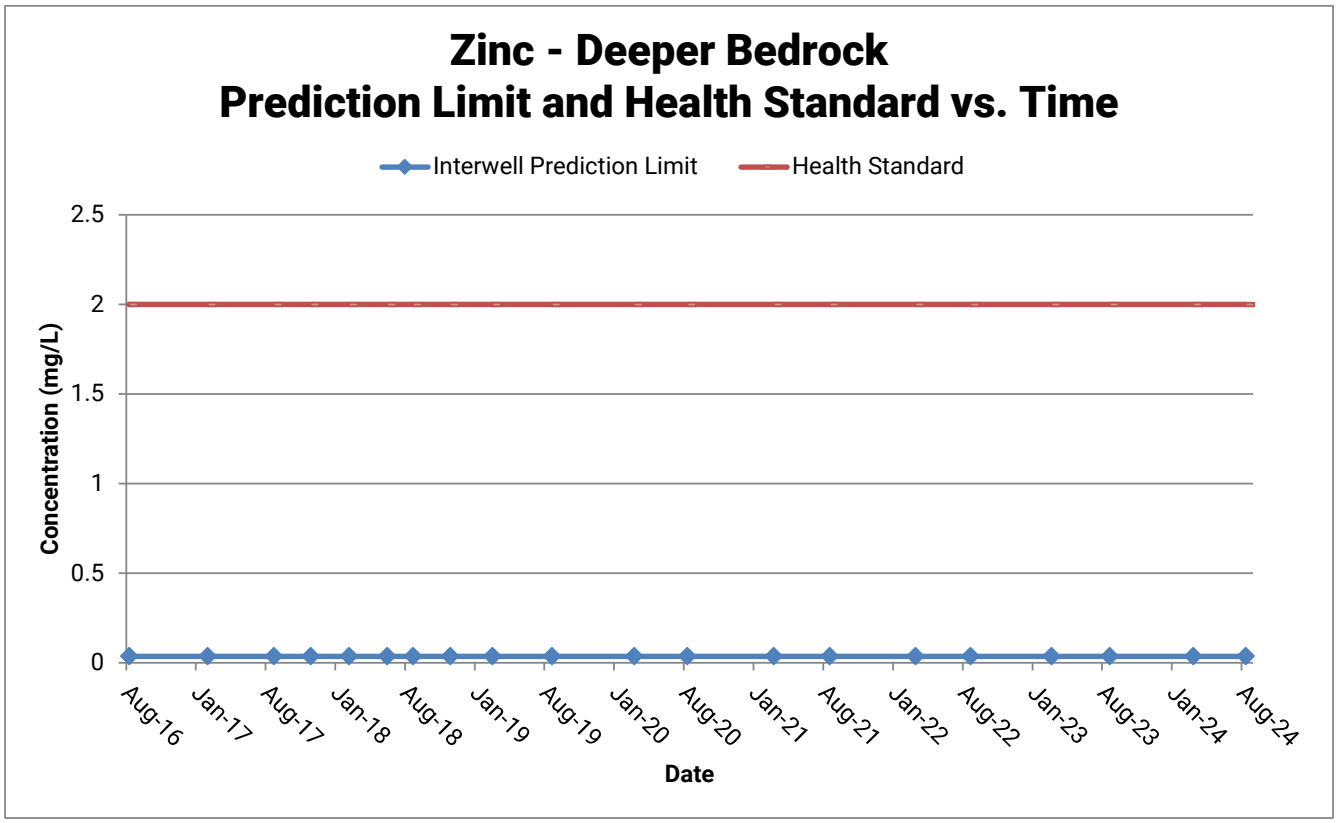

Zinc - Deeper Bedrock
Prediction Limit and Health Standard vs. Time
Interwell Prediction Limit
Health Standard
2.5
2
1.5
1
0.5
0
Concentration (mg/L)
Aug-16
Jan-17
Aug-17
Jan-18
Aug-18
Jan-19
Aug-19
Jan-20
Aug-20
Jan-21
Aug-21
Jan-22
Aug-22
Jan-23
Aug-23
Jan-24
Aug-24
Date

Table 7
Summary of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Constituent [1]	Units	Most Recent Result [2]	Background Standard [3]	Lower Confidence Limit	GWPS [3]	Sample Dates		
							Initial Exceedance (above background)	Resample(s) [4]	5th Background Sample
Upper Bedrock Monitoring Locations									
Assessment Monitoring Locations									
AW-3	Arsenic	mg/L	0.00251	0.00205	0.003	0.01	Fall 2011	N/S	Mar. 2010
AW-4	Arsenic	mg/L	0.00408	0.00205	0.001	0.01	Spring 2012	N/S	Mar. 2010
	Cadmium	mg/L	0.000476	0.0002	0.0002	0.005	Fall 2019	N/S	Mar. 2010
	Copper	mg/L	0.0917	0.0225	0.02	1.3	Sep. 2015	Jan. 2016	Mar. 2010
	Nickel	mg/L	0.0894	0.0522	0.024	0.1	Fall 2019	N/S	Mar. 2010
AW-5	Barium	mg/L	0.193	0.1285	0.13	2	Fall 2011	N/S	Mar. 2010
	Selenium	mg/L	0.0172	0.005	0.002	0.05	Fall 2020	N/A	Mar. 2010
MW-21	Barium	mg/L	0.146	0.1285	0.24	2	Fall 2011	N/S	Mar. 2010
	Chlorobenzene	ug/L	1.03	1.00	1.2	100	Fall 2009	N/S	Mar. 2010
	Thallium	mg/L	0.00166	0.001	0.001	0.002	Spring 2015	N/S	Mar. 2010
MW-23	No SSIs								
MW-26	Barium	mg/L	0.159	0.1285	0.19	2	Fall 2011	N/S	Mar. 2010
MW-28	Barium	mg/L	0.206	0.1285	0.24	2	Fall 2011	N/S	Mar. 2010
VP-3	Arsenic	mg/L	0.0077	0.00205	0.005	0.01	Fall 2010	N/S	Mar. 2010
	Barium	mg/L	0.774	0.1285	0.51	2	Fall 2011	N/S	Mar. 2010
VP-4	Arsenic	mg/L	0.00344	0.00205	0.003	0.01	Fall 2011	N/S	Sep. 2010
Corrective Action Monitoring Locations - Assessment Constituents									
AW-1	1,4-Dichlorobenzene	ug/L	1.26	1.00	1.0	75	Fall 2009	N/S	Mar. 2010
	Barium	mg/L	0.178 J	0.1285	0.31	2	Fall 2011	N/S	Mar. 2010
	Chlorobenzene	ug/L	5.7	1.00	4.8	100	Fall 2009	N/S	Mar. 2010
	Thallium	mg/L	0.00161	0.001	0.0007	0.002	Spring 2017	N/S	Sep. 2010
AW-2	1,1-Dichloroethane	ug/L	1.29	1.00	1.1	140	Spring 2010	N/S	Mar. 2010
	Barium	mg/L	0.468	0.1285	0.35	2	Fall 2011	N/S	Mar. 2010
	Chlorobenzene	ug/L	2.26	1.00	1.8	100	Fall 2009	N/S	Mar. 2010
	cis-1,2-Dichloroethene	ug/L	3.12	1.00	3.5	70	Fall 2009	N/S	Mar. 2010
MW-12	1,1-Dichloroethane	ug/L	4.29	1.00	12.6	140	Spring 2010	N/S	Mar. 2010
	1,2-Dichlorobenzene	ug/L	2.71	1.00	0.9	600	Fall 2010	N/A	Mar. 2010
	1,4-Dichlorobenzene	ug/L	8.01	1.00	2.1	75	Fall 2009	N/S	Mar. 2010
	Barium	mg/L	0.514	0.1285	0.16	2	Fall 2011	N/S	Mar. 2010
	Benzene	ug/L	0.854	0.500	1.25	5	Fall 2009	N/S	Mar. 2010
	Chlorobenzene	ug/L	3.98	1.00	3.6	100	Fall 2009	N/S	Mar. 2010
	cis-1,2-Dichloroethene	ug/L	4.21	1.00	4.2	70	Fall 2009	N/S	Mar. 2010
	Nickel	mg/L	0.0822	0.0522	0.065	0.1	Fall 2009	N/S	Mar. 2010
	Thallium	mg/L	0.00255	0.001	0.0012	0.002	Spring 2013	N/S	Mar. 2010

Table 7
Summary of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Constituent [1]	Units	Most Recent Result [2]	Background Standard [3]	Lower Confidence Limit	GWPS [3]	Sample Dates		
							Initial Exceedance (above background)	Resample(s) [4]	5th Background Sample
Upper Bedrock Monitoring Locations									
Corrective Action Monitoring Locations - Assessment Constituents Continued									
MW-13	1,1-Dichloroethane	ug/L	1.74	1.00	2.0	140	Spring 2010	N/S	Mar. 2010
	1,2-Dichlorobenzene	ug/L	2.15	1.00	2.2	600	Fall 2010	N/S	Mar. 2010
	1,4-Dichlorobenzene	ug/L	12.4	1.00	11.9	75	Fall 2009	N/S	Mar. 2010
	Barium	mg/L	0.956	0.1285	0.56	2	Fall 2011	N/S	Mar. 2010
	Benzene	ug/L	4.11	0.500	3.88	5	Fall 2009	N/S	Mar. 2010
	Chlorobenzene	ug/L	3.93	1.00	4.2	100	Fall 2009	N/S	Mar. 2010
MW-16	1,1-Dichloroethane	ug/L	1.32	1.00	1.9	140	Spring 2010	N/S	Mar. 2010
	1,2-Dichlorobenzene	ug/L	1.32	1.00	0.5	600	Spring 2010	N/S	Mar. 2010
	1,4-Dichlorobenzene	ug/L	5.18	1.00	2.4	75	Fall 2010	N/S	Mar. 2010
	Barium	mg/L	0.148	0.1285	0.06	2	Spring 2011	N/S	Mar. 2010
	Benzene	ug/L	0.567	0.500	1.63	5	Fall 2009	N/S	Mar. 2010
	Chlorobenzene	ug/L	2.01	1.00	1.4	100	Fall 2010	N/S	Mar. 2010
MW-17	Barium	mg/L	0.145	0.1285	0.13	2	Fall 2011	N/S	Mar. 2010
MW-20	Arsenic	mg/L	0.0218	0.00205	0.002	0.01	Spring 2012	N/S	Mar. 2010
	Barium	mg/L	0.161	0.1285	0.15	2	Fall 2011	N/S	Mar. 2010
MW-24	1,2-Dichlorobenzene	ug/L	5.54	1.00	3.9	600	Spring 2010	N/S	Mar. 2010
	1,4-Dichlorobenzene	ug/L	11.7	1.00	7.4	75	Fall 2009	N/S	Mar. 2010
	Barium	mg/L	0.899	0.1285	0.81	2	Fall 2011	N/S	Mar. 2010
	Benzene	ug/L	8.11	0.500	4.10	5	Fall 2009	N/S	Mar. 2010
	Chlorobenzene	ug/L	63	1.00	28.7	100	Fall 2009	N/S	Mar. 2010
MW-30	1,1-Dichloroethane	ug/L	11.1	1.00	8.4	140	Spring 2010	N/S	Mar. 2010
	Barium	mg/L	0.135	0.1285	0.18	2	Fall 2011	N/S	Mar. 2010
	Benzene	ug/L	1.1	0.500	1.67	5	Fall 2009	N/S	Mar. 2010
	Chloroethane	ug/L	8.99	4.00	9.6	2800	Fall 2009	N/S	Mar. 2010
	cis-1,2-Dichloroethene	ug/L	7.11	1.00	5.0	70	Fall 2009	N/S	Mar. 2010
	Vinyl Chloride	ug/L	1.15	1.00	1.03	2	Fall 2010	N/S	Mar. 2010
	Zinc	mg/L	0.158	0.0805	0.07	2	Fall 2011	N/S	Mar. 2010
MW-32	1,4-Dichlorobenzene	ug/L	2.47	1.00	3.3	75	Fall 2009	N/S	Mar. 2010
	Barium	mg/L	0.886	0.1285	0.72	2	Fall 2011	N/S	Mar. 2010
	Benzene	ug/L	0.691	0.500	1.49	5	Fall 2009	N/S	Mar. 2010
	Chlorobenzene	ug/L	12	1.00	9.0	100	Fall 2009	N/S	Mar. 2010
	Cobalt	mg/L	0.00845	0.008	0.002	0.008	Spring 2022	N/S	Mar. 2010
	Nickel	mg/L	0.0766	0.0522	0.017	0.1	Spring 2015	N/S	Mar. 2010

Table 7
Summary of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Constituent [1]	Units	Most Recent Result [2]	Background Standard [3]	Lower Confidence Limit	GWPS [3]	Sample Dates		
							Initial Exceedance (above background)	Resample(s) [4]	5th Background Sample
Upper Bedrock Monitoring Locations									
Corrective Action Monitoring Locations - Assessment Constituents Continued									
MW-34	1,1-Dichloroethane	ug/L	2.17	1.00	8.0	140	Spring 2010	N/S	Mar. 2010
	1,2-Dichlorobenzene	ug/L	1.12	1.00	1.3	600	Spring 2010	N/S	Mar. 2010
	1,4-Dichlorobenzene	ug/L	3.69	1.00	3.1	75	Fall 2009	N/S	Mar. 2010
	Barium	mg/L	0.336	0.1285	0.25	2	Fall 2011	N/S	Mar. 2010
	Benzene	ug/L	1.11	0.500	2.23	5	Fall 2009	N/S	Mar. 2010
	Chlorobenzene	ug/L	2.94	1.00	2.9	100	Fall 2009	N/S	Mar. 2010
	Toluene	ug/L	68.9	1.00	0.5	1000	Fall 2017	N/S	Mar. 2010
MW-35	Arsenic	mg/L	0.00291	0.00205	0.004	0.01	Fall 2011	N/S	Mar. 2010
	Barium	mg/L	0.149	0.1285	0.14	2	Fall 2011	N/S	Mar. 2010
	Selenium	mg/L	0.00683	0.005	0.003	0.05	Fall 2020	N/S	Mar. 2010
Delineation Monitoring Locations - Assessment Constituents									
MW-105A	No SSIs								
MW-106A	Barium	mg/L	0.23	0.1285	0.16	2	Sep. 2013	Nov. 2013	Sep. 2014
	Nickel	mg/L	0.0555	0.0522	0.020	0.1	Fall 2019	N/S	Sep. 2014
MW-107A	Barium	mg/L	0.199	0.1285	0.10	2	Fall 2022	N/S	Sep. 2014
MW-109A	Barium	mg/L	0.191	0.1285	0.19	2	Mar. 2018	Jun. 2018	Nov. 2018
	Selenium	mg/L	0.00822	0.005	0.003	0.05	Jun. 2018	Sep. 2018	Nov. 2018
Deeper Bedrock Monitoring Locations									
Assessment Monitoring Locations									
MW-11	1,1-Dichloroethane	ug/L	1.78	1.00	1.19	140	Fall 2009	N/S	Mar. 2010
	Cobalt	mg/L	0.00097	0.0008717	0.0007	0.0021	Fall 2016	N/S	Sep. 2010
MW-15	Cobalt	mg/L	0.00515	0.0008717	0.0015	0.0021	Fall 2016	N/S	Mar. 2011
	Nickel	mg/L	0.0136	0.00735	0.006	0.1	Mar. 2016	Jun. 2016	Mar. 2011
MW-18	Arsenic	mg/L	0.00347	0.00225	0.0009	0.01	Aug. 2024	N/S	Mar. 2010
MW-19	Nickel	mg/L	0.0144	0.00735	0.008	0.1	Mar. 2015	Jun. 2015	Mar. 2010
MW-25	Barium	mg/L	0.195	0.138	0.18	2	Fall 2011	N/S	Mar. 2010
	cis-1,2-Dichloroethene	ug/L	1.1	1.00	0.50	70	Spring 2016	N/S	Mar. 2010
Corrective Action Monitoring Locations - Assessment Constituents									
AW-6	1,1-Dichloroethane	ug/L	1.8	1.00	2.1	140	Fall 2009	N/S	Mar. 2010
	Barium	mg/L	0.174	0.138	0.10	2	Fall 2011	N/S	Mar. 2010
	Nickel	mg/L	0.0286	0.00735	0.026	0.1	Spring 2015	N/S	Mar. 2010
CRL-9	Barium	mg/L	0.454	0.138	0.44	2	Fall 2011	N/S	Mar. 2010
	Benzene	ug/L	2.62	0.500	1.51	5	Fall 2009	N/S	Mar. 2010
	Nickel	mg/L	0.0173	0.00735	0.018	0.1	Spring 2015	N/S	Mar. 2010

Table 7
Summary of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Constituent [1]	Units	Most Recent Result [2]	Background Standard [3]	Lower Confidence Limit	GWPS [3]	Sample Dates		
							Initial Exceedance (above background)	Resample(s) [4]	5th Background Sample
Deeper Bedrock Monitoring Locations									
Corrective Action Monitoring Locations - Assessment Constituents Continued									
MW-14	1,1-Dichloroethane	ug/L	1.74	1.00	1.7	140	Fall 2010	N/S	Mar. 2010
	1,2-Dichlorobenzene	ug/L	1.43	1.00	1.2	600	Fall 2011	N/S	Mar. 2010
	1,4-Dichlorobenzene	ug/L	7.57	1.00	5.1	75	Spring 2011	N/S	Mar. 2010
	Barium	mg/L	0.736	0.138	0.14	2	Fall 2011	N/S	Mar. 2010
	Benzene	ug/L	0.86	0.500	2.25	5	Fall 2009	N/S	Mar. 2010
	Chlorobenzene	ug/L	2.26	1.00	2.8	100	Fall 2010	N/S	Mar. 2010
	Nickel	mg/L	0.0148	0.00735	0.014	0.1	Fall 2009	N/S	Mar. 2010
MW-22	1,1-Dichloroethane	ug/L	1.71	1.00	1.7	140	Fall 2009	N/S	Mar. 2010
	1,4-Dichlorobenzene	ug/L	1.36	1.00	1.1	75	Fall 2011	N/S	Mar. 2010
	Barium	mg/L	0.558	0.138	0.61	2	Fall 2011	N/S	Mar. 2010
	Chlorobenzene	ug/L	3.01	1.00	3.1	100	Fall 2009	N/S	Mar. 2010
	Nickel	mg/L	0.0304	0.00735	0.029	0.1	Spring 2015	N/S	Mar. 2010
MW-33	1,4-Dichlorobenzene	ug/L	1.04	1.00	0.5	75	Fall 2023	N/S	Mar. 2010
	Barium	mg/L	0.666	0.138	0.45	2	Fall 2011	N/S	Mar. 2010
	Chlorobenzene	ug/L	6.92	1.00	3.6	100	Fall 2009	N/S	Mar. 2010
	Cobalt	mg/L	0.00139	0.0008717	0.0012	0.0021	Fall 2016	N/S	Mar. 2010
MW-36	1,4-Dichlorobenzene	ug/L	1.43	1.00	1.8	75	Spring 2011	N/S	Mar. 2010
	Barium	mg/L	0.594	0.138	0.60	2	Fall 2011	N/S	Mar. 2010
	Chlorobenzene	ug/L	6.98	1.00	6.5	100	Fall 2010	N/S	Mar. 2010
	Cobalt	mg/L	0.0013	0.0008717	0.0013	0.0021	Fall 2016	N/S	Mar. 2010
	Nickel	mg/L	0.00749	0.00735	0.007	0.1	Spring 2015	N/S	Mar. 2010
Delineation Monitoring Locations - Assessment Constituents									
MW-102B	Cobalt	mg/L	0.00106	0.0008717	0.0007	0.0021	Aug. 2016	N/S	Sep. 2014
MW-104B	No SSI for Arsenic								
MW-105B	1,1-Dichloroethane	ug/L	5.29	1.00	2.8	140	Sep. 2013	Nov. 2013	Sep. 2014
	Arsenic	mg/L	0.00602	0.00225	0.0008	0.01	Aug. 2019	N/S	Sep. 2014
	Nickel	mg/L	0.0131	0.00735	0.010	0.1	Mar. 2015	N/S	Sep. 2014
MW-107B	Barium	mg/L	0.326	0.138	0.29	2	Sep. 2013	Nov. 2013	Sep. 2014
	Cobalt	mg/L	0.00224	0.0008717	0.0019	0.0021	Aug. 2016	N/S	Sep. 2014
	Nickel	mg/L	0.0113	0.00735	0.011	0.1	Mar. 2015	N/S	Sep. 2014
	Thallium	mg/L	0.00181	0.001	0.0019	0.002	Mar. 2015	N/S	Sep. 2014
MW-108B	Barium	mg/L	0.189	0.138	0.17	2	Nov. 2017	Mar. 2018	Nov. 2018

Table 7
Summary of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Constituent [1]	Units	Most Recent Result [2]	Background Standard [3]	Lower Confidence Limit	GWPS [3]	Sample Dates		
							Initial Exceedance (above background)	Resample(s) [4]	5th Background Sample
Deeper Bedrock Monitoring Locations									
Delineation Monitoring Locations - Assessment Constituents Continued									
MW-109B	1,4-Dichlorobenzene	ug/L	1.48	1.00	1.1	75	Nov. 2017	Mar. 2018	Nov. 2018
	Barium	mg/L	0.681	0.138	0.66	2	Nov. 2017	Mar. 2018	Nov. 2018
	Chlorobenzene	ug/L	7.14	1.00	6.4	100	Nov. 2017	Mar. 2018	Nov. 2018
	Nickel	mg/L	0.032	0.00735	0.035	0.1	Nov. 2017	Mar. 2018	Nov. 2018

* For assessment monitoring locations, all current results are below background. If confirmed by a second event, location may return to detection monitoring in accordance with IAC 113.10(6)e. However, three consecutive events will be utilized to make the determination to return to detection monitoring to limit frequent fluctuation of wells moving between the detection and assessment monitoring program.

** LCL has exceeded the GWPS, this well/constituent pair is now identified as an SSL.

*** Non-MSWLF Unit source of the SSI identified.

Comments:

N/A = Not applicable.

N/S = Not resampled; SSI was declared in lieu of conducting resample(s).

GWPS = Groundwater Protection Standard

[1] List contains constituents which have been identified as SSIs in Fall 2024. Unless otherwise noted, all current results listed in this table are above background. SSIs were declared in lieu of conducting resample(s).

[2] Most recent results are from Aug. 2024.

[3] Source of background standards and GWPS values are presented in Table 5. If the constituent isn't listed in Table 5 (indicating the constituent hasn't been detected in background), then the background standard is the laboratory RL, and the GWPS is the MCL or the SS if there is no MCL.

[4] Upper and deeper bedrock detection, assessment, and corrective action monitoring locations initiated the Appendix I/II monitoring required by the 2007 rule revisions with assessment monitoring for the full Appendix II list starting in Aug. 2008. Since locations were already in assessment monitoring, the initial statistical exceedances over background were declared as SSIs in lieu of conducting resample(s).

• No SSLs were identified for the upper and deeper bedrock assessment monitoring locations. None of the upper and deeper bedrock assessment monitoring locations have had all Appendix II constituents below background for three consecutive sampling events; therefore, the upper and deeper bedrock assessment monitoring locations will not exit assessment monitoring at this time. Details regarding the future sampling schedules are provided in Table 2.

• No SSLs were identified for the assessment constituents in the upper and deeper bedrock corrective action monitoring locations. These locations will continue corrective action monitoring in 2025 as listed in Table 2. A summary of the statistical comparisons for the corrective action constituents is provided in Table 8.

• No SSLs were identified for the assessment constituents in the upper and deeper bedrock delineation monitoring wells. These locations will continue delineation monitoring in 2025 as listed in Table 2. A summary of the statistical comparisons for the corrective action constituents is provided in Table 8.

Table 8
Summary of Ongoing and Newly Identified SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well [1]	Constituent [1]	Units	Most Recent Result [1]	Upper Confidence Limit [2]	GWPS [3]	Initial Exceedance	Consecutive Compliance Dates		
							1st Occurrence	Most Recent	Duration
Upper Bedrock Monitoring Locations									
Corrective Action Monitoring Locations									
AW-1	Arsenic	mg/L	0.0461	0.0479	0.01	Fall 2011	N/A	N/A	N/A
AW-2	Arsenic	mg/L	0.0166	0.0173	0.01	Spring 2012	N/A	N/A	N/A
	Thallium	mg/L	0.00341	0.00368	0.002	Spring 2010	N/A	N/A	N/A
MW-12	Arsenic	mg/L	0.114	0.1363	0.01	Fall 2010	N/A	N/A	N/A
MW-13	Arsenic	mg/L	0.0351	0.0552	0.01	Fall 2010	N/A	N/A	N/A
MW-16	Arsenic	mg/L	0.0638	0.1295	0.01	Fall 2011	N/A	N/A	N/A
MW-17	Arsenic	mg/L	0.0707	0.0684	0.01	Fall 2010	N/A	N/A	N/A
MW-20	Thallium	mg/L	0.00157	0.00199	0.002	Fall 2013	Fall 2024	Fall 2024	1 year
MW-24	Arsenic	mg/L	0.0304	0.0283	0.01	Fall 2011	N/A	N/A	N/A
MW-30	Arsenic	mg/L	0.0128	0.0125	0.01	Fall 2010	N/A	N/A	N/A
MW-32	Arsenic	mg/L	0.247	0.0889	0.01	Fall 2011	N/A	N/A	N/A
MW-34	Arsenic	mg/L	0.0359	0.0342	0.01	Fall 2011	N/A	N/A	N/A
	Vinyl Chloride	ug/L	0.759 J	3.10	2	Spring 2010	N/A	N/A	N/A
MW-35	Cobalt	mg/L	0.00389	0.00597	0.008	Spring 2014	Fall 2022	Fall 2024	**3 years***
Delineation Monitoring Locations									
MW-105A	Cobalt	mg/L	0.00424	0.00645	0.008	Spring 2015	Fall 2024	Fall 2024	1 year
MW-106A	Arsenic	mg/L	0.0128	0.0133	0.01	Fall 2016	N/A	N/A	N/A
	Cobalt	mg/L	0.03	0.01887	0.008	Fall 2015	N/A	N/A	N/A
Deeper Bedrock Monitoring Locations									
Corrective Action Monitoring Locations									
AW-6	Cobalt	mg/L	0.0104	0.00919	0.0021	Fall 2016	N/A	N/A	N/A
CRL-9	Arsenic	mg/L	0.0487	0.0367	0.01	Fall 2011	N/A	N/A	N/A
	Cobalt	mg/L	0.00408	0.0400	0.0021	Fall 2016	N/A	N/A	N/A
MW-14	Arsenic	mg/L	0.0151	0.0264	0.01	Fall 2011	N/A	N/A	N/A
MW-22	Arsenic	mg/L	0.0551	0.0517	0.01	Fall 2011	N/A	N/A	N/A
	Cobalt	mg/L	0.00254	0.00315	0.0021	Spring 2019	N/A	N/A	N/A
MW-33	Arsenic	mg/L	0.0503	0.0386	0.01	Fall 2011	N/A	N/A	N/A
MW-36	Arsenic	mg/L	0.0692	0.0694	0.01	Fall 2011	N/A	N/A	N/A
Delineation Monitoring Locations									
MW-105B	Cobalt	mg/L	0.00315	0.00333	0.0021	Spring 2019	N/A	N/A	N/A
MW-109B	Arsenic	mg/L	0.0214	0.0210	0.01	Winter 2018	N/A	N/A	N/A
	Cobalt	mg/L	0.0173	0.01838	0.0021	Fall 2018	N/A	N/A	N/A
	Thallium	mg/L	0.00342	0.00497	0.002	Fall 2018	N/A	N/A	N/A

* This well/contaminant pair has been compliant for 3 consecutive years and no longer has an SSL.

** Non-MSWLF Unit source of the SSL identified.

Table 8
Summary of Ongoing and Newly Identified SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Comments:

GWPS = Groundwater Protection Standard

N/A = Not applicable; indicates the analyte/well pair has not achieved compliance with the GWPS (i.e., upper confident limit or the upper 95% confidence limit on the trend line is lower than the GWPS for a period of three consecutive years).

(1) The most recent results are from the Aug. 2024 event.

(2) If a decreasing trend was identified, the value is the upper 95% confidence limit on the trend line.

(3) Source of background standards and GWPS values are presented in Table 5. If the constituent isn't listed in Table 5 (indicating the constituent hasn't been detected in background), then the background standard is the laboratory RL, and the GWPS is the MCL or the SS if there is no MCL.

• For the corrective action constituents in the upper bedrock corrective action and delineation monitoring locations, SSLs over the GWPS remained for arsenic in AW-1, AW-2, MW-12, MW-13, MW-16, MW-17, MW-24, MW-30, MW-32, MW-34, and MW-106A; for cobalt in MW-106A; for thallium in AW-2; and for vinyl chloride in MW-34. While compliance with the GWPS was not achieved, statistically significant decreasing trends were identified for arsenic in AW-1, MW-12, MW-17, MW-24, MW-30, MW-34 and MW-106A; thallium in AW-2; and vinyl chloride in MW-34.

• Compliance with the GWPS was achieved for cobalt in MW-35 starting with the Fall 2022 statistical evaluation and remained below the GWPS through the Fall 2024 statistical evaluation. Therefore, in accordance with Iowa Administrative Code (IAC) 113.10(9)e(2), cobalt in MW-35 will return to an assessment constituent in 2025. Since cobalt is the only corrective action constituent in MW-35, MW-35 will return to an assessment monitoring location in 2025.

• Compliance with the GWPS was newly achieved for thallium in MW-20 and cobalt in MW-105A during the Fall 2024 statistical evaluation. In accordance with IAC 113.10(9)e(2), thallium in MW-20 and cobalt in MW-105A will return as assessment constituents in 2027 if the constituent/well pairs remain below the GWPS in the interim statistical evaluations.

• For the corrective action constituents in the deeper bedrock corrective action and delineation monitoring locations, SSLs over the GWPS remained for arsenic in CRL-9, MW-14, MW-22, MW-33, MW-36, and MW-109B; for cobalt in AW-6, CRL-9, MW-22, MW-105B, and MW-109B; and for thallium in MW-109B. While compliance with the GWPS was not achieved, a statistically significant decreasing trend was identified for cobalt in MW-109B.

• As noted above, MW-35 will return to assessment monitoring in 2025. No additional changes are recommended for the upper bedrock corrective action and delineation monitoring locations based on the corrective action statistical results conducted during the Fall 2024 statistical evaluation. No changes are recommended for the deeper bedrock corrective action and delineation monitoring locations based on the corrective action statistical results conducted during the Fall 2024 statistical evaluation.

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75P

Key:
gray = SSI
black = SSL
orange = SSL achieved compliance with the GWPS (1 event)

Well	Constituent	Spring 2017	Fall 2017	Spring 2018	Summer 2018	Fall 2018	Winter 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Winter 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Winter 2023	Spring 2023	Fall 2023	Spring 2024	Fall 2024
Upper Bedrock Monitoring Locations																					
Downgradient Monitoring Locations																					
AW-1	1,4-Dichlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Silver				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Zinc				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
AW-2	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Benzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	cis-1,2-Dichloroethene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Toluene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
AW-3	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Silver				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Toluene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
AW-4	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Copper				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Silver				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
AW-5	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chromium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75P

Key: gray = SSI black = SSL orange = SSL achieved compliance with the GWPS (1 event)		Spring 2017	Fall 2017	Spring 2018	Summer 2018	Fall 2018	Winter 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Winter 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Winter 2023	Spring 2023	Fall 2023	Spring 2024	Fall 2024
Well	**Constituent**																				
Upper Bedrock Monitoring Locations Continued																					
Downgradient Monitoring Locations Continued																					
AW-5 Continued	Cobalt [1]				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Selenium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Silver				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.					N.S.	N.S.		N.S.	
MW-12	1,1-Dichloroethane				N.S.		N.S.					N.S.					N.S.				
	1,2-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	1,4-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	Arsenic				N.S.		N.S.					N.S.					N.S.				
	Barium				N.S.		N.S.					N.S.					N.S.				
	Benzene				N.S.		N.S.					N.S.					N.S.				
	Chlorobenzene				N.S.		N.S.					N.S.					N.S.				
	cis-1,2 Dichloroethene				N.S.		N.S.					N.S.					N.S.				
	Nickel [2]				N.S.		N.S.					N.S.					N.S.				
	Thallium				N.S.		N.S.					N.S.					N.S.				
	Vinyl Chloride				N.S.		N.S.					N.S.					N.S.				
MW-13	1,1-Dichloroethane				N.S.		N.S.					N.S.					N.S.				
	1,2-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	1,4-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	Arsenic				N.S.		N.S.					N.S.					N.S.				
	Acetone				N.S.		N.S.					N.S.					N.S.				
	Barium				N.S.		N.S.					N.S.					N.S.				
	Benzene				N.S.		N.S.					N.S.					N.S.				
	Chlorobenzene				N.S.		N.S.					N.S.					N.S.				
	Chloroethane				N.S.		N.S.					N.S.					N.S.				
	cis-1,2 Dichloroethene				N.S.		N.S.					N.S.					N.S.				
	Cobalt [2]				N.S.		N.S.					N.S.					N.S.				
	Nickel [2]				N.S.		N.S.					N.S.					N.S.				
	Vinyl Chloride [2]				N.S.		N.S.					N.S.					N.S.				
MW-16	1,1-Dichloroethane				N.S.		N.S.					N.S.					N.S.				
	1,2-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	1,4-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75P

Key:
gray = SSI
black = SSL
orange = SSL achieved compliance with the GWPS (1 event)

Well	Constituent	Spring 2017	Fall 2017	Spring 2018	Summer 2018	Fall 2018	Winter 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Winter 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Winter 2023	Spring 2023	Fall 2023	Spring 2024	Fall 2024
Upper Bedrock Monitoring Locations Continued																					
Downgradient Monitoring Locations Continued																					
MW-16 Continued	Arsenic				N.S.		N.S.					N.S.					N.S.				
	Barium				N.S.		N.S.					N.S.					N.S.				
	Benzene				N.S.		N.S.					N.S.					N.S.				
	Cadmium				N.S.		N.S.					N.S.					N.S.				
	Chlorobenzene				N.S.		N.S.					N.S.					N.S.				
	cis-1,2 Dichloroethene				N.S.		N.S.					N.S.					N.S.				
	Ethylbenzene				N.S.		N.S.					N.S.					N.S.				
	Silver				N.S.		N.S.					N.S.					N.S.				
	Thallium				N.S.		N.S.					N.S.					N.S.				
	Nickel				N.S.		N.S.					N.S.					N.S.				
MW-17	Arsenic				N.S.		N.S.					N.S.					N.S.				
	Barium				N.S.		N.S.					N.S.					N.S.				
	Cobalt [1]				N.S.		N.S.					N.S.					N.S.				
MW-20	Arsenic [3]				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chromium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Zinc				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-21	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	cis-1,2 Dichloroethene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Zinc				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-23	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75P

Key:
gray = SSI
black = SSL
orange = SSL achieved compliance with the GWPS (1 event)

Well	Constituent	Spring 2017	Fall 2017	Spring 2018	Summer 2018	Fall 2018	Winter 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Winter 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Winter 2023	Spring 2023	Fall 2023	Spring 2024	Fall 2024
Upper Bedrock Monitoring Locations Continued																					
Downgradient Monitoring Locations Continued																					
MW-23 Continued	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Zinc				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-24	1,2-Dichlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	1,4-Dichlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	2,4-D	N.S.	N.S.	N.S	N.S	N.S	N.S	N.S	N.S	N.S		N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Benzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	cis-1,2-Dichloroethene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-26	Acetone				N.S.		N.S.					N.S.	N.S.		N.S.					N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.					N.S.	
	Benzene				N.S.		N.S.					N.S.	N.S.		N.S.					N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.					N.S.	
	Heptachlor				N.S.		N.S.					N.S.	N.S.		N.S.	N.S.				N.S.	
	Toluene				N.S.		N.S.					N.S.	N.S.		N.S.					N.S.	
MW-28	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-30	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	1,2-Dichlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Benzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chromium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	cis-1,2-Dichloroethene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75P

Key: gray = SSI black = SSL orange = SSL achieved compliance with the GWPS (1 event)		Spring	Fall	Spring	Summer	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall
Well	**Constituent**	**2017**	**2017**	**2018**	**2018**	**2018**	**2018**	**2019**	**2019**	**2020**	**2020**	**2020**	**2021**	**2021**	**2022**	**2022**	**2023**	**2023**	**2023**	**2024**	**2024**
Upper Bedrock Monitoring Locations Continued																					
Downgradient Monitoring Locations Continued																					
MW-30 Continued	trans-1,2-Dichloroethene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Vinyl Chloride				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Zinc				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-32	1,2-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	1,4-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	Arsenic				N.S.		N.S.					N.S.					N.S.				
	Barium				N.S.		N.S.					N.S.					N.S.				
	Benzene				N.S.		N.S.					N.S.					N.S.				
	Cadmium				N.S.		N.S.					N.S.					N.S.				
	Chlorobenzene				N.S.		N.S.					N.S.					N.S.				
	Cobalt				N.S.		N.S.					N.S.					N.S.				
	Nickel				N.S.		N.S.					N.S.					N.S.				
MW-34	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	1,2-Dichlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	1,4-Dichlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	alpha-BHC				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Benzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chromium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	cis-1,2-Dichloroethene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Toluene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	trans-1,2-Dichloroethene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Vinyl Chloride				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-35	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt [(4)]				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Selenium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75P

Key: gray = SSI black = SSL orange = SSL achieved compliance with the GWPS (1 event)		Spring	Fall	Spring	Summer	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall
Well	**Constituent**	**2017**	**2017**	**2018**	**2018**	**2018**	**2018**	**2019**	**2019**	**2020**	**2020**	**2020**	**2021**	**2021**	**2022**	**2022**	**2023**	**2023**	**2023**	**2024**	**2024**
Upper Bedrock Monitoring Locations Continued																					
Downgradient Monitoring Locations Continued																					
VP-3	Arsenic [(2)]				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Benzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
VP-4	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
Delineation Monitoring Locations																					
MW-105A	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-106A	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-107A	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cadmium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-109A	Barium	N.S.	N.S.									N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Selenium	N.S.	N.S.									N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
Deeper Bedrock Monitoring Locations																					
Downgradient Monitoring Locations																					
AW-6	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
CRL-9	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Benzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chromium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Toluene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75P

Key: gray = SSI black = SSL orange = SSL achieved compliance with the GWPS (1 event)		Spring	Fall	Spring	Summer	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall
Well	**Constituent**	**2017**	**2017**	**2018**	**2018**	**2018**	**2018**	**2019**	**2019**	**2020**	**2020**	**2020**	**2021**	**2021**	**2022**	**2022**	**2023**	**2023**	**2023**	**2024**	**2024**
Deeper Bedrock Monitoring Locations Continued																					
Downgradient Monitoring Locations Continued																					
MW-11	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-14	1,1-Dichloroethane				N.S.		N.S.					N.S.					N.S.				
	1,2-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	1,4-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	Arsenic				N.S.		N.S.					N.S.					N.S.				
	Barium				N.S.		N.S.					N.S.					N.S.				
	Benzene				N.S.		N.S.					N.S.					N.S.				
	Chlorobenzene				N.S.		N.S.					N.S.					N.S.				
	Chloroethane				N.S.		N.S.					N.S.					N.S.				
	Chromium				N.S.		N.S.					N.S.					N.S.				
	cis-1,2-Dichloroethene				N.S.		N.S.					N.S.					N.S.				
	Cobalt				N.S.		N.S.					N.S.					N.S.				
	Nickel				N.S.		N.S.					N.S.					N.S.				
	Silver				N.S.		N.S.					N.S.					N.S.				
	Toluene				N.S.		N.S.					N.S.					N.S.				
MW-15	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Silver				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-18	Arsenic																			N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-19	Carbon Disulfide				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-22	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	1,2-Dichlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	1,4-Dichlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	2-Butanone				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	cis-1,2-Dichloroethene				N.S		N.S					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75P

Key: gray = SSI black = SSL orange = SSL achieved compliance with the GWPS (1 event)		Spring	Fall	Spring	Summer	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall
Well	**Constituent**	**2017**	**2017**	**2018**	**2018**	**2018**	**2018**	**2019**	**2019**	**2020**	**2020**	**2020**	**2021**	**2021**	**2022**	**2022**	**2023**	**2023**	**2023**	**2024**	**2024**
Deeper Bedrock Monitoring Locations Continued																					
Downgradient Monitoring Locations Continued																					
MW-22	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
Continued	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-25	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	cis-1,2-Dichloroethene				N.S		N.S					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Lead				N.S		N.S					N.S	N.S		N.S		N.S	N.S		N.S	
	Thallium				N.S		N.S					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-31	No SSIs or SSLs																				
MW-33	1,4-Dichlorobenzene				N.S.		N.S.					N.S.					N.S.				
	Arsenic				N.S.		N.S.					N.S.					N.S.				
	Barium				N.S.		N.S.					N.S.					N.S.				
	Benzene				N.S.		N.S.					N.S.					N.S.				
	Cadmium				N.S.		N.S.					N.S.					N.S.				
	Chlorobenzene				N.S.		N.S.					N.S.					N.S.				
	Cobalt				N.S.		N.S.					N.S.					N.S.				
MW-33	Lead				N.S.		N.S.					N.S.					N.S.				
Continued	Nickel				N.S.		N.S.					N.S.					N.S.				
	Zinc				N.S.		N.S.					N.S.					N.S.				
MW-36	1,4-Dichlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Benzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chlorobenzene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Chromium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
Delineation Monitoring Locations																					
MW-102B	Barium				N.S.	N.S.	N.S.	N.S.				N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.	N.S.	N.S.	N.S.				N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-104B [5]	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75P

Key: gray = SSI black = SSL orange = SSL achieved compliance with the GWPS (1 event)		Spring	Fall	Spring	Summer	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall	Winter	Spring	Fall	Spring	Fall
Well	**Constituent**	**2017**	**2017**	**2018**	**2018**	**2018**	**2018**	**2019**	**2019**	**2020**	**2020**	**2020**	**2021**	**2021**	**2022**	**2022**	**2023**	**2023**	**2023**	**2024**	**2024**
Deeper Bedrock Monitoring Locations Continued																					
Delineation Monitoring Locations Continued																					
MW-105B	1,1-Dichloroethane				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Arsenic				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Beryllium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	cis-1,2-Dichloroethene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Selenium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Silver				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-107B	Barium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Cobalt				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Thallium				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Toluene				N.S.		N.S.					N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-108B [6]	Barium	N.S.	N.S.									N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
	Nickel	N.S.	N.S.									N.S.	N.S.		N.S.		N.S.	N.S.		N.S.	
MW-109B	1,1-Dichloroethane	N.S.	N.S.									N.S.					N.S.				
	1,4-Dichlorobenzene	N.S.	N.S.									N.S.					N.S.				
	Arsenic	N.S.	N.S.									N.S.					N.S.				
	Barium	N.S.	N.S.									N.S.					N.S.				
	Chlorobenzene	N.S.	N.S.									N.S.					N.S.				
	Cobalt	N.S.	N.S.									N.S.					N.S.				
	Nickel	N.S.	N.S.									N.S.					N.S.				
	Thallium	N.S.	N.S.									N.S.					N.S.				

Comments:

N.S. = Not sampled due to 1) well not installed yet; 2) location was dry or inaccessible; 3) location was not included in quarterly baseline/retesting/semiannual event; 4) only limited parameters analyzed during quarterly event; or 5) well returned to detection monitoring and Appendix II parameter is no longer sampled.

[1] After the Spring 2020 statistical evaluation, cobalt in AW-5 and MW-17 achieved compliance with the GWPS for a duration of three years. As a result, cobalt in AW-5 and MW-17 returned to assessment constituents starting with the Fall 2020 statistical evaluation in accordance with IAC 113.10(9)e(2).

Table 9
Historic SSIs and SSLs
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Comments Continued:

(2) After the Fall 2019 statistical evaluation, nickel in MW-12; cobalt, nickel, and vinyl chloride in MW-13; and arsenic in VP-3 had achieved compliance with the GWPS for durations of three or more years. As a result, these analyte/well pairs returned to assessment constituents starting with the Spring 2020 statistical evaluation in accordance with IAC 113.10(9)e(2).

(3) After the Fall 2022 statistical evaluation, arsenic in MW-20 had achieved compliance with the GWPS for a duration of three years. As a result, arsenic in MW-20 returned to an assessment constituent starting with the Fall 2023 statistical evaluation in accordance with IAC 113.10(9)e(2). Note: as indicated in Table 2, MW-20 is sampled annually in accordance with Permit Amendment #16.

(4) After the Fall 2024 statistical evaluation, cobalt in MW-35 achieved the compliance with the GWPS for a duration of three years. As a result, cobalt in MW-35 will return to an assessment constituent in 2025. Since cobalt is the only corrective action constituent in MW-35, MW-35 will return to an assessment monitoring location in 2025.

(5) MW-104B is only analyzed for cobalt in accordance with the *Response to DNR Comments dated March 10, 2015* letter (Foth, 2015b). Note that in Spring 2019, MW-104B was inadvertently sampled for the Appendix I list and TSS. However, since analysis is intended to be limited to cobalt and TSS at MW-104B, only cobalt in MW-104B was evaluated for SSIs and SSLs during the Spring 2019 statistical evaluation. In Fall 2019, MW-104B resumed semiannual delineation monitoring for cobalt and TSS.

(6) IDNR approved the removal of cobalt from the list of analytes at MW-108B in the letter dated April 16, 2019 (IDNR, 2019). Cobalt was analyzed during the Mar. 2019 event since the event occurred prior to the IDNR approval letter; however, the Mar. 2019 result for cobalt in MW-108B was not included in the Spring 2019 statistical evaluation. Starting in Aug. 2019, cobalt was not included in the Appendix I analysis at MW-108B.

Table 10
Corrective Action Trend Analysis
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Well	Corrective Action Constituent	Trend	N	Analyte/Well Pair Achieved Compliance with GWPS?	Projected Year to Completion* [1,2]
Upper Bedrock Monitoring Locations					
Corrective Action Monitoring Locations					
AW-1	Arsenic	Decreasing (2008)	30	No	2046
AW-2	Arsenic	No Trend	30	No	2032
	Thallium	Decreasing (2013)	20	No	2035
MW-12	Arsenic	Decreasing (2008)	34	No	2166
MW-13	Arsenic	No Trend [3]	24	No	No Attenuation
MW-16	Arsenic	No Trend [3]	24	No	2070
MW-17	Arsenic	Decreasing (2018)	13	No	2047
MW-20	Thallium	Decreasing (2012)	21	Yes	2026
MW-24	Arsenic	Decreasing (2012)	21	No	2030
MW-30	Arsenic	Decreasing (2008)	30	No	2031 [4]
MW-32	Arsenic	No Trend [3]	24	No	No Attenuation
MW-34	Arsenic	Decreasing (2011)	24	No	2043
	Vinyl Chloride	Decreasing (2008)	30	No	2029 [4]
MW-35	Cobalt	Decreasing (2012)	20	Yes	**Fall 2024***
Delineation Monitoring Locations					
MW-105A	Cobalt	Decreasing (2013)	21	Yes	2026
MW-106A	Arsenic	Decreasing (2014)	17	No	2029
	Cobalt	No Trend	21	No	No Attenuation
Deeper Bedrock Monitoring Locations					
Corrective Action Monitoring Locations					
AW-6	Cobalt	No Trend [3]	22	No	No Attenuation
CRL-9	Arsenic	No Trend [3]	25	No	2364
	Cobalt	No Trend [3]	16	No	2342
MW-14	Arsenic	No Trend	34	No	2064
MW-22	Arsenic	No Trend [3]	16	No	No Attenuation
	Cobalt	No Trend	17	No	No Attenuation
MW-33	Arsenic	No Trend [3]	20	No	No Attenuation
MW-36	Arsenic	No Trend [3]	24	No	2524
Delineation Monitoring Locations					
MW-105B	Cobalt	No Trend [3]	12	No	No Attenuation
MW-109B	Arsenic	No Trend [3]	13	No	2051
	Cobalt	Decreasing (2017)	17	No	2089
	Thallium	No Trend	17	No	2057

* To satisfy IAC 113.10(9)e(2)
Permit holder addresses adequacy of corrective measure when trend is not favorable
Permit shall adjust corrective action for financial assurance as completion date warrants

Comments:
N = Number of Samples
* For remedy completion [IAC 113.10(9)e(2)], compliance with the Groundwater Protection Standard (GWPS) is considered achieved by demonstrating that concentrations of Appendix II constituents have not exceeded the GWPS for a period of three consecutive years or an alternate length of time established by the Iowa Department of Natural Resources (IDNR).
[1] For corrective action constituents that have achieved compliance with the GWPS, the projected year to completion listed is 3 years after compliance was first achieved (i.e., 3 years after the First Occurrence listed in Table 8) and will remain as long as concentrations remain statistically below the GWPS during the interim statistical evaluations. Individual analyte/well pairs will return to assessment constituents once compliance with the GWPS has been achieved for a period of 3 years. In accordance with IAC 113.10(9)3(2), a well may not return to assessment monitoring until all detected constituents are below the GWPS.

Table 10
Corrective Action Trend Analysis
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Comments (Continued):

(2) For the remaining corrective constituents (i.e., those that have not achieved compliance with the GWPS), the projected year to completion is based on the estimated first order attenuation rates for individual analyte/well pairs evaluated as part of the Fall 2024 statistical evaluation (Appendix B). The projected years to completion are 3 years after the first order attenuation rates projected initial compliance with the GWPS.

(3) Shortened data sets were utilized to evaluate trends and first order attenuation rates at the following constituent/well pairs: arsenic in CRL-9 (Sep. 2010 - current data), MW-13 (Mar. 2013 - current data), MW-16 (Mar. 2013 - current data), MW-22 (Mar. 2015 - current data), MW-32 (Mar. 2013 - current data), MW-33 (Mar. 2015 - current data), MW-36 (Mar. 2011 - current data), and MW-109B (Nov. 2018 - current data) and cobalt in AW-6 (Mar. 2012 - current data), CRL-9 (Mar. 2015 - current data), and MW-105B (Mar. 2017 - current data). Shortened data sets were utilized for one or more of the following reasons: 1) because earlier data was notably different than the data set selected which greatly impacted the trend evaluations; 2) attenuation was visually evident only with the selected data set; 3) a maximum concentration was also reached in the data set and the data set used to evaluate trends started with the maximum concentration; and 4) time-series analysis identified a shift in the data that correlated with a change in sampling technique from high-volume to low-flow sampling (as a result, the high volume data was not utilized in evaluating trends or calculating first order regression).

(4) For arsenic in MW-30 and vinyl chloride in MW-34, the first order attenuation rates projected that compliance with the GWPS has already been achieved (i.e., Jan. 2023 for arsenic in MW-30 and Jan. 2024 for vinyl chloride in MW-34). However, the confidence bands placed around the linear trend line have not yet indicated compliance with the GWPS for these analyte/well pairs (although it is noted that arsenic in MW-30 and vinyl chloride in MW-34 are close to statistically achieving compliance with the GWPS). For arsenic in MW-30, while a decreasing trend has been identifed, more recent data doesn't fit first order attenuation as well. Assuming future decreases and a better fit for first order attenuation will occur, it is estimated that compliance with the GWPS may be achieved in 2028 with a projected year to completion of 2031. For vinyl chloride in MW-34, while an overall decreasing trend has been identifed, individual results have fluctuated above and below the linear trend line. Indidivual results were below the GWPS between Mar. 2019 and Apr. 2020, above the GWPS between Aug. 2020 and Aug. 2023, and back below the GWPS in Aug. 2024. Assuming future concentrations remain below the GWPS and below or near the linear trend line, it is estimated that compliance with the GWPS may be achieved in 2026 with a projected year to completion of 2029.

Conclusions and Recommendations:

- In accordance with 567 IAC 113.10(9)e(2), cobalt in MW-35 will return to an assessment constituent in 2025 since compliance with the GWPS was maintained for three consecutive years. Since cobalt is the only corrective action constituent in MW-35, MW-35 will return to an assessment monitoring location in 2025, as indicated in Table 2.
- Compliance with the GWPS was newly achieved for cobalt in MW-105A and thallium in MW-20 with the Fall 2024 statistical evaluation (Appendix B). As long as concentrations remain statistically below the GWPS during interim statistical evaluations, cobalt in MW-105A and thallium in MW-20 will have attained compliance the GWPS for three consecutive years after the Fall 2026 statistical evaluation and may return as assessment constituents in 2027.
- Stable or decreasing trends were identified for the corrective action constituents.
- Additional discussion regarding the status of corrective action activities, including an evaluation of the effectiveness of the progress being made, is provided in Section 4 of the 2024 Annual Water Quality Report (AWQR).

Table 11
Leachate Management Summary
2024 Leachate Collection System Performance Evaluation Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Month	Leachate Elevations (feet amsl) [1]															Month	Leachate Collected (gal)	Volume Recirculated (gal)	Discharged to CRWPC (gal)	Precipitation (in)
	W-100	W-102	W-103	W-104	W-105	W-110	W-115	W-117	W-203	W-207	W-209	W-211	W-212 [2]	W-214 [2]	W-219					
January	750.82	751.43	737.02	745.03	734.00	824.82	814.39	782.62	850.64	804.69	799.16	840.33	762.81	792.95	819.58	January	13,900	0	13,900	2.75
February	750.85	751.84	736.59	745.24	734.02	825.35	814.83	781.97	850.79	803.99	799.13	840.23	759.60	793.16	819.83	February	20,920	0	20,920	0.10
March	755.05	752.44	736.85	745.29	734.01	829.46	814.84	783.27	850.90	804.19	798.94	840.43	759.46	792.96	819.72	March	17,520	0	17,520	2.31
April	754.95	752.29	736.59	745.49	734.01	828.39	814.93	783.32	851.09	807.59	799.04	840.43	760.71	793.04	819.86	April	14,460	0	14,460	3.11
May	755.04	751.98	736.67	745.26	734.05	825.85	814.75	783.52	851.29	806.39	799.19	841.73	758.20	792.96	819.96	May	15,160	0	15,160	5.44
June	755.05	752.05	736.62	745.22	734.05	829.61	814.49	783.69	851.25	806.89	799.03	841.13	758.41	792.66	819.86	June	3,390	0	3,390	3.66
July	755.04	752.26	736.47	744.83	734.05	828.05	814.42	783.67	851.55	804.19	798.78	841.73	758.21	792.80	820.05	July	9,010	0	9,010	9.28
August	755.10	752.11	736.56	745.14	734.07	829.74	814.40	783.89	851.54	805.59	798.75	840.73	764.62	792.58	819.82	August	9,680	0	9,680	3.28
September	755.05	752.15	736.54	745.11	734.05	828.56	814.18	784.00	851.33	804.29	798.47	840.43	762.21	792.25	819.65	September	12,420	0	12,420	0.00
October	754.99	751.23	736.23	745.02	729.88	827.15	814.24	782.99	851.32	803.94	798.25	841.18	759.45	792.20	819.23	October	13,540	0	13,540	3.33
November	754.70	751.50	736.52	745.14	727.63	826.01	814.25	781.35	851.11	804.09	798.84	839.93	759.76	792.25	819.35	November	13,600	0	13,600	2.86
December	755.07	752.60	737.07	745.70	734.03	829.09	812.33	781.75	851.40	807.99	799.04	841.33	759.59	792.58	819.72	December	18,640	0	18,640	1.03
																2024 Annual Total	162,240	0	162,240	37.15

Comments:

amsl = above mean sea level

CRWPC = City of Cedar Rapids Water Pollution Control Facility

gal = gallons

in = inches

N/A = not applicable

[1] W-217 was removed from the leachate elevation monitoring network in 2024 and therefore, is no longer reported in Tables 11 and 12. As a reminder, Foth requested the removal of W-217 from the monitoring network in the *2023 AWQR* (Foth, 2024) due to a restriction at 63 feet below top of casing (bTOC) which was identified as well collapse. The Iowa Department of Natural Resources (IDNR) approved the removal of W-217 from the leachate elevation monitoring network in Permit Amendment #20 issued January 9, 2025.

[2] Due to a restriction encountered at 72.2 feet bTOC at W-212 in Dec. 2023, Foth requested to replace W-212 with W-214 in the *2023 AWQR* (Foth, 2024), and the IDNR approved the removal in Permit Amendment #20 issued January 9, 2025. Starting in Jan. 2024, elevations returned to a level above 72.2 feet bTOC; therefore, leachate elevations could be measured at W-212 in 2024 and the data is reported in this table. If leachate levels remain above 72.2 feet bTOC, elevations will continue to be reported at W-212. W-214 will also be retained in the leachate elevation monitoring network (i.e., in addition to W-212 or as a replacement for W-212 if elevations decline below the casing restriction).

- The contents of this report are intended to satisfy the requirements set forth in 567 IAC 113.26(8)d (effective 1/15/03).
- In 2024, there was no correlation between precipitation and leachate elevations or volumes.
- Limited maintenance is required for the leachate collection system because it consists of gravity draining side-slope laterals and a perimeter gravity toe drain. There are no pumps, tanks, or lagoons which require maintenance. No maintenance activities were conducted in 2024.
- Leachate line cleaning and inspection was last conducted in Jul. 2022 by Roto-Rooter. The next line cleaning and inspection will be performed in 2025.
- Performance of the leachate collection is evaluated in Table 12.
- Laboratory analytical results for leachate testing, as submitted to CRWPC, are included in Appendix D.

Table 11
Leachate Management Summary
2024 Leachate Collection System Performance Evaluation Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Leachate Collection System Description:

• Construction of the existing leachate collection system was completed in Nov. 2007. A previous leachate pumping system, consisting of 13 low flow pumps in existing gas wells, was demonstrated to be ineffective, and the pumps were abandoned in 2005 as approved by IDNR.

• The existing leachate collection system consists of a gravity toe drain encompassing the perimeter of Site 1 (except for the south and southeast corner of the site) and laterals up the side slope (HRG, 2006). From Jun. 2008 through Spring 2013, Site 1 re-opened to receive disaster debris from the Jun. 2008 flood. Construction of the final landfill cover for Site 1 was completed in Aug. 2013. The final cover included an additional perforated liquid collection line surrounding the perimeter of the final cap.

• Leachate volumes collected in the toe drain are measured via a meter (LM-1) located in the northeast corner of the site, north-northeast of the Recreational Facility. Leachate is conveyed from LM-1 to the CRWPC via the sewer main. The Agency discharges leachate to CRWPC under an industrial discharge permit.

Table 12
Average Annual Leachate Elevations
2024 Leachate Collection System Performance Evaluation Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Monitoring Point [1]	2013 (feet amsl)	2014 (feet amsl)	2015 (feet amsl)	2016 (feet amsl)	2017 (feet amsl)	2018 (feet amsl)	2019 (feet amsl)	2020 (feet amsl)	2021 (feet amsl)	2022 (feet amsl)	2023 (feet amsl)	2024 (feet amsl)
W-100	755.13	755.85	754.96	755.43	754.82	754.93	757.66	757.40	756.22	754.27	753.68	754.31
W-102	744.47	746.14	747.48	748.62	748.48	748.03	750.24	750.70	751.35	750.67	751.17	751.99
W-103	731.90	731.44	733.28	734.32	734.09	733.77	734.56	735.07	735.77	735.29	735.95	736.64
W-104	744.73	744.48	745.14	745.14	744.97	744.67	745.59	745.56	745.53	745.33	745.05	745.21
W-105	733.12	734.13	734.80	735.13	734.99	734.81	733.59	734.06	733.87	734.02	733.91	733.15
W-110	822.71	820.58	821.62	823.89	823.64	821.15	829.69	830.00	829.42	826.93	825.92	827.67
W-115	815.92	817.34	818.52	819.67	819.60	817.85	819.71	819.93	817.60	815.38	814.57	814.34
W-117	780.09	781.31	782.66	783.24	782.95	780.47	782.08	782.83	783.26	783.02	782.76	783.00
W-203	857.07	855.90	855.59	853.90	853.04	851.69	851.73	851.88	851.76	851.18	851.00	851.19
W-207	800.74	810.71	808.29	806.59	805.58	809.09	806.17	808.74	805.82	805.34	806.04	805.32
W-209	800.11	802.60	802.71	802.33	801.63	800.57	800.18	799.96	799.95	798.63	798.52	798.88
W-211	858.11	855.13	857.52	859.15	859.00	858.35	857.32	854.12	849.61	843.27	841.67	840.80
W-212	N/A [2]	N/A [2]	N/A [2]	N/A [2]	N/A [2]	N/A [2]	N/A [2]	N/A [2]	N/A [2]	763.98	761.30	760.25 [3]
W-214	N/A [3]	N/A [3]	N/A [3]	N/A [3]	N/A [3]	N/A [3]	N/A [3]	N/A [3]	N/A [3]	N/A [3]	N/A [3]	792.70
W-219	816.93	818.81	818.48	818.40	818.77	818.19	819.09	819.35	819.76	819.25	819.35	819.72

Comments:

amsl = above mean sea level

N/A = not applicable

[1] W-217 was removed from the leachate elevation monitoring network in 2024 and therefore, is no longer reported in Tables 11 and 12. As a reminder, Foth requested the removal of W-217 from the monitoring network in the 2023 AWQR (Foth, 2024) due to a restriction at 63 feet below top of casing (bTOC) which was identified as well collapse. The Iowa Department of Natural Resources (IDNR) approved the removal of W-217 from the leachate elevation monitoring network in Permit Amendment #20 issued January 9, 2025.

[2] W-212 was added to the leachate elevation monitoring network starting in 2022.

[3] Due to a restriction encountered at 72.2 feet bTOC at W-212 in Dec. 2023, Foth requested to replace W-212 with W-214 in the 2023 AWQR (Foth, 2024), and the IDNR approved the removal in Permit Amendment #20 issued January 9, 2025. Starting in Jan. 2024, elevations returned to a level above 72.2 feet bTOC; therefore, leachate elevations could be measured at W-212 in 2024 and the data is reported in this table. If leachate levels remain above 72.2 feet bTOC, elevations will continue to be reported at W-212. W-214 will also be retained in the leachate elevation monitoring network (i.e., in addition to W-212 or as a replacement for W-212 if elevations decline below the casing restriction).

Table 12
Average Annual Leachate Elevations
2024 Leachate Collection System Performance Evaluation Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Comments Continued:

• Monthly leachate elevations measured between Jan. and Dec. 2024 are presented in Table 11. The average annual leachate elevations computed using measurements collected between Aug. 2013 and Dec. 2024 for each well are presented in this table (Table 12). Leachate contours are depicted with the groundwater contours in Figures 2 and 3.

• In accordance with Permit Special Provision X.10.c, effective control for an existing landfill is defined as achieving the lowest possible head as required in IAC 113.26(12)b(2) and maintaining surface and groundwater quality standards at compliance monitoring points.

• Leachate contours generally reflect the ground surface contours, with the highest leachate elevations near the top of the landfill where the greatest accumulation of waste is located, and the lowest leachate elevations located along the perimeters of the landfill. This leachate pattern is consistent with previous years and represents no significant change.

• Monthly fluctuation in the 2024 elevations was observed and did not correlate with precipitation. The leachate elevation fluctuations at Site 1 are likely attributable to differential settlement. During settlement, changes in leachate elevations are anticipated due to the physical characteristics of the waste and influence of less permeable layers within the landfill created during placement of daily soil cover. These layers can promote lateral movement of leachate and create perched leachate zones within the waste, which may not be representative of overall leachate head levels in the landfill. Landfill settlement and the resulting variations in leachate elevations are anticipated to continue as the waste degrades.

• Review of the average annual leachate elevations indicates stable or declining elevations at most of the leachate monitoring locations: W-100 (stable since 2010), W-102 (stable since 2019), W-104 (stable to slightly decreasing since 2010), W-105 (stable since 2014), W-110 (stable 2019 - 2021 then decreasing), W-115 (stable 2015 - 2020 then decreasing), W-117 (stable since 2015), W-203 (decreasing to stable since 2014), W-207 (stable to slightly decreasing since 2014), W-209 (slightly decreasing/stable since 2014), W-211 (stable to decreasing since 2016), W-212 (decreasing in 2022-2024), and W-219 (stable since 2014). Discussions regarding W-103 and W-214 are provided below.

• At W-103, a slightly increasing trend was identified from 2010 to 2024 with elevations increasing by approximately 13.75 feet during this period. The slope of the increasing trend has been decreasing over time. From 2021-2024, elevations have remained approximately stable.

• At W-214, leachate elevation monitoring was initiated in 2024. Since only one year of data has been collected, trends are not evaluated at this time.

Conclusions:

• Site operations and management practices have been consistent with the regulatory intent to achieve the lowest possible leachate head levels. The leachate collection system continues to function as designed, and monthly elevations are collected to monitor short-term and long-term trends in the leachate elevation data. In 2024, no significant change to the leachate contour pattern occurred, and the variation in elevations was not correlated with precipitation. Steady to declining leachate elevations were generally observed, which, along with no apparent correlation with precipitation, supports that construction of the final cover and additional stormwater controls appears to have been effective in reducing infiltration.

Table 12
Average Annual Leachate Elevations
2024 Leachate Collection System Performance Evaluation Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Conclusions Continued:

• Groundwater and Surface Water Quality: Because the waste was deposited within an old rock quarry located adjacent to the river that had been mined into the water table, there is a component of natural groundwater flow through the waste that cannot be eliminated. This condition exacerbates some of the water quality issues presented in previous Annual Water Quality Reports and Leachate Control System Performance Evaluation Reports. During 1998-2001, groundwater quality assessments were conducted to address a leachate release into the groundwater surrounding the landfill (HRG, 1998, 1999, 2000, and 2001). In 2019, IDNR approved continued implementation of a monitored natural attenuation remedy (IDNR, 2019) in accordance with the Risk Management Plan in the *Phase II Groundwater Quality Assessment Report* (HRG, 2001) and the revised remedy implementation schedule outlined in the *2018 AWQR* (Foth, 2019a). Compliance with the conditions set forth in the Risk Management Plan was maintained in 2024. As detailed in Tables 1-11, the groundwater plumes are generally steady or declining. In accordance with Permit Amendment #16, surface water monitoring has been discontinued. Under current flow conditions, leachate impacts to surface water are not applicable.

Table 13
Methane Monitoring Summary
2024 Methane Monitoring Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Monitoring Points			Methane Results (% LEL)							
Name	Type	Description	3/6/2024 - S (Y/N)		6/10/2024 - S (Y/N)		9/3/2023 - S (Y/N)		11/22/2024 - S (Y/N)	
GMP-N	Surface Perimeter	5 ft N of MW-20	0		0		0		0	
GMP-S	Surface Perimeter	5 ft S of MW-32	0		0		0		0	
GMP-W	Surface Perimeter	5 ft W of MW-26	0		0		0		0	
GMP-E	Surface Perimeter	20 ft E of MW-14	0		0		0		0	
BLDG-2	Indoor	Recreational Facility/Office	0		0		0		0	
BLDG-6	Indoor	Maintenance Building & Office	0		0		0		0	
BLDG-12	Indoor	Scale House	0		0		0		0	

S (Y/N) - Was screen submerged, yes or no or blank is non-applicable

Comments:

% = percent

• The contents of this report are intended to satisfy the requirements set forth in 567 IAC 113.26(15)b (effective 1/15/03).

• As shown on Table 13, the quarterly methane monitoring results did not indicate concentrations in exceedance of 25% LEL for facility structures or 100% LEL for facility boundaries.

Table 14
Analytical Data Summary
2024 Annual Water Quality Report
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Comments:

The following table presents the groundwater upper and deeper bedrock Appendix II analytical data collected since August 2008. In accordance with Permit Amendment #16, MW-27, MW-29, MW-102A, MW-103A, MW-103C, and MW-108A were removed from the groundwater monitoring network and surface water monitoring was discontinued starting with the Fall 2020 sampling event. Due to the removal of surface water monitoring in 2020, the surface water analytical results are no longer provided in this table.

Detections above the laboratory MDL are shown in **bold**.

DwnGrad = downgradient (compliance) monitoring location.

Bkgrnd = background monitoring location.

Delin = delineation monitoring location.

• Previously approved groundwater background data set adjustments were maintained and are listed as crossed-out concentrations in Table 14. This includes: removal of the high volume September 2009 through September 2014 metals data at MW-101A; removal of the high volume September 2009 through September 2014 and the initial low-flow March 2015 metals data at MW-101B; removal of the March 2019 barium concentration in MW-38 due to elevated TSS; removal of earlier non-detect data with elevated PQLs for barium, cobalt, copper, and lead in the upper bedrock; removal of earlier non-detect data with elevated PQLs for barium, beryllium, cadmium, cobalt, copper, lead, and nickel in the deeper bedrock; removal of the August 2018 detected metals data at MW-37 due to potential impact indicated by benzene, toluene, ethylbenzene, and total xylenes detections; and removal of the Mar. 2023 barium, cadmium, cobalt, copper, nickel, selenium, and vanadium data at MW-101A due to elevated TSS.

• No background data set adjustments were recommended in 2024.

• Previously approved groundwater downgradient data set adjustments were maintained and are listed as crossed-out concentrations in Table 14:

  • Removal of earlier non-detect data with elevated PQLs for upper bedrock cobalt data at AW-5, MW-13, MW-17, MW-23, and MW-35; removal of earlier non-detect and J-flagged data with elevated PQLs for deeper bedrock cobalt data at AW-6, CRL-9, MW-11, MW-14, MW-15, MW-22, MW-33 MW-36, MW-102B, MW-105B, and MW-107B; removal of earlier non-detect and J-flagged data with elevated PQLs for the deeper bedrock nickel data at AW-6, CRL-9, MW-14, MW-15, MW-18, MW-19, MW-22, MW-33, and MW-36; removal of the high volume August 2008 through September 2014 zinc data at AW-7, MW-20, and MW-30; and removal of the high volume August 2008 through September 2014 nickel data at MW-13.

  • Removal of the historical data prior to when statistical compliance with the GWPS was first achieved for analyte/well pairs exiting corrective action and returning to assessment constituents. Compliance with the GWPS was first achieved in Spring 2015 for nickel in MW-12 and vinyl chloride in MW-13; in Fall 2016 for cobalt and nickel in MW-13 and cobalt in MW-23; in Spring 2017 for arsenic in VP-3; in Fall 2017 for cobalt in AW-5 and MW-17; and in Spring 2020 for arsenic in MW-20. The historical data prior to these initial compliance dates have been removed. Section 5.1.3 of the Fall 2024 statistical evaluation (provided in Appendix B) provides a detailed listing of the historical data removed due to exiting

• No downgradient data set adjustments were recommended in 2024.

• Previously rejected data resulting from data validation were maintained and are listed as crossed-out concentrations in Table 14:

  • Removal of the Aug. 2022 m,p-cresol and phenol results at MW-37 and MW-101A. As detailed in the data validation report for the Aug. 2022 event, these results were rejected due to surrogate recoveries that were below the expanded lower acceptance limit.

  • Removal of the Jan. 2023 1,4-phenylenediamine (i.e., p-phenylenediamine) result in MW-26. As detailed in the data validation report for the Jan. 2023 event, this result was rejected due to laboratory control sample/laboratory control sample duplicate recoveries that were below the acceptance limit.

• No data were rejected during data validation in 2024.

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,1,1,2-Tetrachloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
1,1,1,2-Tetrachloroethane	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
1,1,1,2-Tetrachloroethane	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2012-09	ug/L	< 1.00	< 2.00	< 2.00	< 1.00	< 1.00	< 2.00	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
1,1,1,2-Tetrachloroethane	2013-05	ug/L			< 1.00			< 1.00										
1,1,1,2-Tetrachloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2013-11	ug/L																
1,1,1,2-Tetrachloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2014-06	ug/L																
1,1,1,2-Tetrachloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
1,1,1,2-Tetrachloroethane	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
1,1,1,2-Tetrachloroethane	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
1,1,1,2-Tetrachloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2016-06	ug/L			< 1	< 1												
1,1,1,2-Tetrachloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2017-11	ug/L																
1,1,1,2-Tetrachloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2018-06	ug/L																
1,1,1,2-Tetrachloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2018-09	ug/L					< 1						< 1	< 1				
1,1,1,2-Tetrachloroethane	2018-11	ug/L																
1,1,1,2-Tetrachloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2020-04	ug/L				< 1	< 1		< 1									
1,1,1,2-Tetrachloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2021-03	ug/L							< 1	< 1	< 1	< 1						
1,1,1,2-Tetrachloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2022-03	ug/L							< 1	< 1	< 1	< 1						
1,1,1,2-Tetrachloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2023-01	ug/L															< 1	
1,1,1,2-Tetrachloroethane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
1,1,1,2-Tetrachloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2024-03	ug/L							< 1	< 1	< 1	< 1						
1,1,1,2-Tetrachloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.93**	< 1	< 1	**1.31**	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	**1.59**	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
1,1,1-Trichloroethane	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	**2.02**	< 1	< 1	**1.42**	< 1	< 1	< 1	
1,1,1-Trichloroethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.90**	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**2.21**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	**1.10**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.25**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.04**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	**1.36**	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
1,1,1-Trichloroethane	2013-05	ug/L			< 1.00			< 1.00										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,1,1,2-Tetrachloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1,1,2-Tetrachloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1,1,2-Tetrachloroethane	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
1,1,1,2-Tetrachloroethane	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
1,1,1,2-Tetrachloroethane	2010-03	ug/L	< 1.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 2.00								
1,1,1,2-Tetrachloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1,2-Tetrachloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1,2-Tetrachloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1,2-Tetrachloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1,2-Tetrachloroethane	2012-09	ug/L	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 2.00	< 2.00								
1,1,1,2-Tetrachloroethane	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
1,1,1,2-Tetrachloroethane	2013-05	ug/L															
1,1,1,2-Tetrachloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,1,1,2-Tetrachloroethane	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,1,1,2-Tetrachloroethane	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1,2-Tetrachloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1,2-Tetrachloroethane	2016-06	ug/L															
1,1,1,2-Tetrachloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1,2-Tetrachloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1,2-Tetrachloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1,2-Tetrachloroethane	2017-11	ug/L														< 1	< 1
1,1,1,2-Tetrachloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2018-06	ug/L														< 1	< 1
1,1,1,2-Tetrachloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,1,1,2-Tetrachloroethane	2018-09	ug/L													< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2018-11	ug/L														< 1	< 1
1,1,1,2-Tetrachloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2020-04	ug/L			< 1									< 1			
1,1,1,2-Tetrachloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,1,2-Tetrachloroethane	2021-03	ug/L		< 1			< 1			< 1							
1,1,1,2-Tetrachloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,1,2-Tetrachloroethane	2022-03	ug/L		< 1			< 1			< 1							
1,1,1,2-Tetrachloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,1,2-Tetrachloroethane	2023-01	ug/L															
1,1,1,2-Tetrachloroethane	2023-03	ug/L		< 1			< 1			< 1							
1,1,1,2-Tetrachloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,1,2-Tetrachloroethane	2024-03	ug/L		< 1			< 1			< 1							
1,1,1,2-Tetrachloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,1-Trichloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1,1-Trichloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1,1-Trichloroethane	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
1,1,1-Trichloroethane	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
1,1,1-Trichloroethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
1,1,1-Trichloroethane	2013-05	ug/L															

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,1,1-Trichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**0.892 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2013-11	ug/L																
1,1,1-Trichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2014-06	ug/L																
1,1,1-Trichloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.382 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
1,1,1-Trichloroethane	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
1,1,1-Trichloroethane	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
1,1,1-Trichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.135 J**	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2016-06	ug/L			< 1	< 1												
1,1,1-Trichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2017-11	ug/L																
1,1,1-Trichloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2018-06	ug/L																
1,1,1-Trichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2018-09	ug/L					< 1						< 1	< 1				
1,1,1-Trichloroethane	2018-11	ug/L																
1,1,1-Trichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2020-04	ug/L				< 1	< 1		< 1									
1,1,1-Trichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2021-03	ug/L							< 1	< 1	< 1	< 1						
1,1,1-Trichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2022-03	ug/L							< 1	< 1	< 1	< 1						
1,1,1-Trichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2023-01	ug/L															< 1	
1,1,1-Trichloroethane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
1,1,1-Trichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2024-03	ug/L							< 1	< 1	< 1	< 1						
1,1,1-Trichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
1,1,2,2-Tetrachloroethane	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
1,1,2,2-Tetrachloroethane	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
1,1,2,2-Tetrachloroethane	2013-05	ug/L			< 1.00			< 1.00										
1,1,2,2-Tetrachloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2013-11	ug/L																
1,1,2,2-Tetrachloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2014-06	ug/L																
1,1,2,2-Tetrachloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
1,1,2,2-Tetrachloroethane	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
1,1,2,2-Tetrachloroethane	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
1,1,2,2-Tetrachloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2016-06	ug/L			< 1	< 1												
1,1,2,2-Tetrachloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,1,1-Trichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,1,1-Trichloroethane	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,1,1-Trichloroethane	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1-Trichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1-Trichloroethane	2016-06	ug/L															
1,1,1-Trichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1-Trichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1-Trichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1-Trichloroethane	2017-11	ug/L														< 1	< 1
1,1,1-Trichloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2018-06	ug/L														< 1	< 1
1,1,1-Trichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,1,1-Trichloroethane	2018-09	ug/L													< 1	< 1	< 1
1,1,1-Trichloroethane	2018-11	ug/L														< 1	< 1
1,1,1-Trichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,1,1-Trichloroethane	2020-04	ug/L			< 1									< 1			
1,1,1-Trichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,1-Trichloroethane	2021-03	ug/L		< 1			< 1			< 1							
1,1,1-Trichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,1-Trichloroethane	2022-03	ug/L		< 1			< 1			< 1							
1,1,1-Trichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,1-Trichloroethane	2023-01	ug/L															
1,1,1-Trichloroethane	2023-03	ug/L		< 1			< 1			< 1							
1,1,1-Trichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,1-Trichloroethane	2024-03	ug/L		< 1			< 1			< 1							
1,1,1-Trichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,2,2-Tetrachloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1,2,2-Tetrachloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1,2,2-Tetrachloroethane	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
1,1,2,2-Tetrachloroethane	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
1,1,2,2-Tetrachloroethane	2010-03	ug/L	< 1.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 2.00								
1,1,2,2-Tetrachloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
1,1,2,2-Tetrachloroethane	2013-05	ug/L															
1,1,2,2-Tetrachloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,1,2,2-Tetrachloroethane	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,1,2,2-Tetrachloroethane	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2,2-Tetrachloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2,2-Tetrachloroethane	2016-06	ug/L															
1,1,2,2-Tetrachloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2,2-Tetrachloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,1,2,2-Tetrachloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2017-11	ug/L																
1,1,2,2-Tetrachloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2018-06	ug/L																
1,1,2,2-Tetrachloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2018-09	ug/L					< 1						< 1	< 1				
1,1,2,2-Tetrachloroethane	2018-11	ug/L																
1,1,2,2-Tetrachloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2020-04	ug/L				< 1	< 1		< 1									
1,1,2,2-Tetrachloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2021-03	ug/L							< 1	< 1	< 1	< 1						
1,1,2,2-Tetrachloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2022-03	ug/L							< 1	< 1	< 1	< 1						
1,1,2,2-Tetrachloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2023-01	ug/L															< 1	
1,1,2,2-Tetrachloroethane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
1,1,2,2-Tetrachloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2024-03	ug/L							< 1	< 1	< 1	< 1						
1,1,2,2-Tetrachloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	**1.43**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
1,1,2-Trichloroethane	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
1,1,2-Trichloroethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
1,1,2-Trichloroethane	2013-05	ug/L			< 1.00			< 1.00										
1,1,2-Trichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2013-11	ug/L																
1,1,2-Trichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2014-06	ug/L																
1,1,2-Trichloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
1,1,2-Trichloroethane	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
1,1,2-Trichloroethane	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
1,1,2-Trichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2016-06	ug/L			< 1	< 1												
1,1,2-Trichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2017-11	ug/L																
1,1,2-Trichloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.199 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2018-06	ug/L																
1,1,2-Trichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2018-09	ug/L					< 1						< 1	< 1				
1,1,2-Trichloroethane	2018-11	ug/L																
1,1,2-Trichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2020-04	ug/L				< 1	< 1		< 1									
1,1,2-Trichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,1,2,2-Tetrachloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2,2-Tetrachloroethane	2017-11	ug/L														< 1	< 1
1,1,2,2-Tetrachloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2018-06	ug/L														< 1	< 1
1,1,2,2-Tetrachloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,1,2,2-Tetrachloroethane	2018-09	ug/L													< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2018-11	ug/L														< 1	< 1
1,1,2,2-Tetrachloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2020-04	ug/L			< 1									< 1			
1,1,2,2-Tetrachloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,2,2-Tetrachloroethane	2021-03	ug/L		< 1			< 1			< 1							
1,1,2,2-Tetrachloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,2,2-Tetrachloroethane	2022-03	ug/L		< 1			< 1			< 1							
1,1,2,2-Tetrachloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,2,2-Tetrachloroethane	2023-01	ug/L															
1,1,2,2-Tetrachloroethane	2023-03	ug/L		< 1			< 1			< 1							
1,1,2,2-Tetrachloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,2,2-Tetrachloroethane	2024-03	ug/L		< 1			< 1			< 1							
1,1,2,2-Tetrachloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,2-Trichloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1,2-Trichloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1,2-Trichloroethane	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
1,1,2-Trichloroethane	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
1,1,2-Trichloroethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
1,1,2-Trichloroethane	2013-05	ug/L															
1,1,2-Trichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,1,2-Trichloroethane	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,1,2-Trichloroethane	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2-Trichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2-Trichloroethane	2016-06	ug/L															
1,1,2-Trichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2-Trichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2-Trichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2-Trichloroethane	2017-11	ug/L														< 1	< 1
1,1,2-Trichloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2018-06	ug/L														< 1	< 1
1,1,2-Trichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,1,2-Trichloroethane	2018-09	ug/L													< 1	< 1	< 1
1,1,2-Trichloroethane	2018-11	ug/L														< 1	< 1
1,1,2-Trichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,1,2-Trichloroethane	2020-04	ug/L			< 1									< 1			
1,1,2-Trichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,1,2-Trichloroethane	2021-03	ug/L							< 1	< 1	< 1	< 1						
1,1,2-Trichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2022-03	ug/L							< 1	< 1	< 1	< 1						
1,1,2-Trichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2023-01	ug/L															< 1	
1,1,2-Trichloroethane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
1,1,2-Trichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2024-03	ug/L							< 1	< 1	< 1	< 1						
1,1,2-Trichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	2008-08	ug/L	< 1	**2**	< 1	< 1	< 1	**4.99**	**24.2**	**25.3**	**32.2**	**2.34**	< 1	**10.3**	**1.16**	**1.17**	< 1	< 1
1,1-Dichloroethane	2009-03	ug/L	< 1	**2.26**	< 1	< 1	< 1	**8.88**	**37.7**	**18.6**	**36.8**	**3.53**	**1.43**	**5.65**	**1.73**	**1.33**	< 1	< 1
1,1-Dichloroethane	2009-07	ug/L	< 1	**1.84**		< 1		**5.1**	**31.4**	**22**	**35.1**	**3.22**	**2.00**	**5.40**	**1.03**	< 1	< 1	
1,1-Dichloroethane	2009-09	ug/L	< 1	**1.87**		< 1.00		**9.18**	**30.8**	**19.4**	**49.4**	**1.36**	**1.51**	**6.73**	**1.08**	**1.15**	< 1	
1,1-Dichloroethane	2010-03	ug/L	< 1.00	**2.04**	< 1.00	< 1.00	< 1.00	**3.78**	**38.1**	**20.5**	**26.8**	**3.11**	**1.46**	**5.60**	**1.29**	**1.23**	< 1.00	< 1.00
1,1-Dichloroethane	2010-09	ug/L	< 1.00	**1.79**	< 1.00	< 1.00	< 1.00	**6.34**	**24.0**	**19.7**	**29.1**	**2.18**	< 1.00	**6.81**	< 1.00	**1.03**	< 1.00	< 1.00
1,1-Dichloroethane	2011-03	ug/L	< 1.00	**1.29**	< 1.00	< 1.00	< 10.0	**2.07**	**28.6**	**20.2**	**25.1**	**1.06**	**3.07**	**4.61**	< 1.00	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2011-09	ug/L	< 1.00	**1.26**	< 1.00	< 1.00	< 1.00	**7.17**	**28.7**	**13.6**	**18.7**	**1.41**	< 1.00	**2.94**	**1.18**	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2012-03	ug/L	< 1.00	**1.62**	< 1.00	< 1.00	< 1.00	**7.33**	**28.7**	**13.4**	**16.7**	< 1.00	< 1.00	**2.99**	**1.35**	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2012-09	ug/L	**1.10**	**2.44**	< 1.00	< 1.00	< 1.00	**4.05**	**27.2**	**15.8**	**19.9**	**1.13**	< 1.00	**2.98**	**1.08**	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2013-03	ug/L	**1.72**	**2.1**		< 1.00	< 1.00		**28**	**9.95**	**14.9**	**1.97**	**0.803 J**	**3.81**	**1.26**	< 1.00	< 1	< 1
1,1-Dichloroethane	2013-05	ug/L			< 1.00			**2.98**										
1,1-Dichloroethane	2013-09	ug/L	**0.762 J**	**1.96**	< 1.00	< 1.00	< 1.00	**6.32**	**22.6**	**10.6**	**12.7**	**1.36**	**0.614 J**	**4.00**	**1.24**	**0.845 J**	< 1.00	< 1.00
1,1-Dichloroethane	2013-11	ug/L																
1,1-Dichloroethane	2014-03	ug/L	< 1.00	**1.35**	**0.221 J**	< 1.00	< 1.00	**10.4**	**19.2**	**1.43**	**17.0**	**0.856 J**	**0.782 J**	**2.49**	**2.01**	**0.617 J**	< 1.00	< 1.00
1,1-Dichloroethane	2014-06	ug/L																
1,1-Dichloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	**5.27**	**18.2**	**8.28**	**11.5**	**1.13**	**0.451 J**	**2.58**	**0.878 J**	**1.39**	< 1	< 1
1,1-Dichloroethane	2015-03	ug/L	**0.723 J**	**1.82**	< 1.00	< 1.00	< 1.00	**1.71**	**22.5**	**11.4**	**15.8**	**0.565 J**	**0.472 J**	**1.59**	**1.16**	**0.898 J**	< 1	**0.286 J**
1,1-Dichloroethane	2015-09	ug/L	**0.652 J**	**1.48**		< 1	< 1	**3.95**			**11.4**	< 1	**0.581 J**	**1.72**		**0.947 J**	< 1	
1,1-Dichloroethane	2015-10	ug/L			< 1				**18.8**	**9.01**					**0.981 J**			< 1
1,1-Dichloroethane	2016-03	ug/L	< 1	**1.42**	< 1	< 1	< 1	**1.19**	**11.8**	**6.04**	**8.1**	**0.383 J**	< 1	**1.19**	**0.778 J**	**0.899 J**	< 1	**0.586 J**
1,1-Dichloroethane	2016-06	ug/L			**0.258 J**	< 1												
1,1-Dichloroethane	2016-08	ug/L	**0.643 J**	**1.19**	< 1	< 1	< 1	**1.96**	**13.2**	**6.13**	**4.01**	< 1	**1.36**	**1.28**	**0.504 J**	**0.777 J**	< 1	**0.446 J**
1,1-Dichloroethane	2017-03	ug/L	**0.703 J**	**0.945 J**	< 1	< 1	< 1	**2.14**	**13.3**	**3.89**	**1.15**	< 1	**0.337 J**	**1.43**	**0.764 J**	**0.536 J**	< 1	< 1
1,1-Dichloroethane	2017-08	ug/L	< 1	**0.896 J**	**0.285 J**	< 1	< 1	**2.37**	**12.3**	**3.33**	**2.08**	**0.295 J**	**0.297 J**	**1.53**	**0.443 J**	**0.668 J**	< 1	**0.35 J**
1,1-Dichloroethane	2017-11	ug/L																
1,1-Dichloroethane	2018-03	ug/L	< 1	**0.973 J**	< 1	< 1	< 1	**1.8**	**15.8**	**5.56**	**2.6**	< 1	**0.376 J**	**1.19**	**0.646 J**	**0.667 J**	< 1	**0.312 J**
1,1-Dichloroethane	2018-06	ug/L																
1,1-Dichloroethane	2018-08	ug/L	**0.382 J**	**1.16**	< 1	< 1		**1.75**	**13.4**	**1.66**	**3.4**	< 1			**0.491 J**	**0.744 J**	< 1	**0.523 J**
1,1-Dichloroethane	2018-09	ug/L					< 1						**0.586 J**	**1.29**				
1,1-Dichloroethane	2018-11	ug/L																
1,1-Dichloroethane	2019-03	ug/L	< 1	**0.841 J**	**0.555 J**	< 1	< 1	**1.78**	**9.03**	**3.56**	**0.712 J**	< 1	< 1	**0.37 J**	**0.415 J**	**0.336 J**	< 1	**0.267 J**
1,1-Dichloroethane	2019-08	ug/L	**0.476 J**	**0.557 J**	**0.367 J**	< 1	< 1	**2.57**	**7.35**	**2.36**	**3.28**	< 1	< 1	**2.1**	**0.525 J**	**0.576 J**	< 1	**0.426 J**
1,1-Dichloroethane	2020-03	ug/L	**0.289 J**	**0.491 J**	**0.284 J**			**1.09**		**2.43**	**1.07**	< 1	< 1	**1.31**	**0.477 J**	**0.539 J**	< 1	**0.247 J**
1,1-Dichloroethane	2020-04	ug/L				< 1	< 1		**7.29**									
1,1-Dichloroethane	2020-08	ug/L	**0.479 J**	**0.919 J**	**0.268 J**	< 1	< 1	**1.6**	**7.21**	**0.755 J**	**2.27**	< 1	**0.347 J**	**1.78**	**0.457 J**	**0.802 J**	< 1	**0.414 J**
1,1-Dichloroethane	2021-03	ug/L							**7.28**	**2.03**	**1.45**	< 1						
1,1-Dichloroethane	2021-08	ug/L	**0.548 J+**	**0.639 J**	**1.05 J+**	< 1	< 10	**0.565 J**	**6.22**	**0.602 J**	**2.84**	< 1	< 1	**1.23**	**0.429 J+**	**0.253 J**	< 1	< 1
1,1-Dichloroethane	2022-03	ug/L							**5.32**	**1.89**	**1.26**	< 1						
1,1-Dichloroethane	2022-08	ug/L	< 1	**1.44**	< 1	< 1	< 1		**5.04**	**1.48**	**1.9**	< 1	< 1	**1.19**	**0.301 J**	**0.566 J**	< 1	< 1
1,1-Dichloroethane	2023-01	ug/L															< 1	
1,1-Dichloroethane	2023-03	ug/L							**4.57**	**2.01**	**0.928 J**	< 1					< 1	
1,1-Dichloroethane	2023-08	ug/L	< 1	**0.842 J**	< 1	< 1	< 1		**3.58**	**0.644 J**	**1.77**	< 1	< 1	**0.844 J**	< 1	< 1	< 1	< 1
1,1-Dichloroethane	2024-03	ug/L							**3.39**	< 1	< 1	< 1						
1,1-Dichloroethane	2024-08	ug/L	**0.443 J**	**1.29**	**0.309 J**	< 1	< 1		**4.29**	**1.74**	**1.32**	< 1	< 1	**0.822 J**	< 1	**0.347 J**	< 1	**0.308 J**
1,1-Dichloroethene	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2009-07	ug/L	< 2	< 2.00		< 2		< 2	< 2	< 2	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,1,2-Trichloroethane	2021-03	ug/L		< 1			< 1			< 1							
1,1,2-Trichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,2-Trichloroethane	2022-03	ug/L		< 1			< 1			< 1							
1,1,2-Trichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,2-Trichloroethane	2023-01	ug/L															
1,1,2-Trichloroethane	2023-03	ug/L		< 1			< 1			< 1							
1,1,2-Trichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1,2-Trichloroethane	2024-03	ug/L		< 1			< 1			< 1							
1,1,2-Trichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1-Dichloroethane	2008-08	ug/L	**11.1**	**4.62**	**16.9**	**1.3**	< 1	< 1	< 1								
1,1-Dichloroethane	2009-03	ug/L	**12.8**	**3.48**	**24.4**	**2.93**	< 1	< 1	< 1								
1,1-Dichloroethane	2009-07	ug/L	**11.5**	**3.67**	**20.1**	**3.4**	< 1.00										
1,1-Dichloroethane	2009-09	ug/L	**13.1**	**5.10**	**16.7**	**2.76**	< 1.00										
1,1-Dichloroethane	2010-03	ug/L	**16.6**	**2.96**	**13.2**	**4.21**	< 1.00	< 1.00	< 1.00								
1,1-Dichloroethane	2010-09	ug/L	**15.8**	**3.09**	**22.6**	**3.71**	< 1.00	< 1.00	< 1.00								
1,1-Dichloroethane	2011-03	ug/L	**10.2**	**1.94**	**13.3**	**3.22**	< 1.00	< 1.00	< 1.00								
1,1-Dichloroethane	2011-09	ug/L	**11.4**	**2.33**	**17.0**	**3.58**	< 1.00	< 1.00	< 1.00								
1,1-Dichloroethane	2012-03	ug/L	**10.5**	< 1.00	**16.6**	**1.48**	< 1.00	< 1.00	< 1.00								
1,1-Dichloroethane	2012-09	ug/L	**13.6**	< 1.00	**12.0**	**2.66**	< 1.00	< 1.00	< 1.00								
1,1-Dichloroethane	2013-03	ug/L	**11**	< 1	< 25.0		< 1.00	**0.79 J**	< 1								
1,1-Dichloroethane	2013-05	ug/L															
1,1-Dichloroethane	2013-09	ug/L	**10.2**	**0.348 J**	**9.41**	**0.984 J**	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	**0.883 J**	< 1.00		
1,1-Dichloroethane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1-Dichloroethane	2014-03	ug/L	**8.13**	**0.375 J**	**10.0**	**1.13**	< 1.00	**0.249 J**	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1-Dichloroethane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1-Dichloroethane	2014-09	ug/L	**9.29**	**0.73 J**	**6.33**	**0.404 J**	< 1	< 1	< 1		< 1	< 1	< 1	**0.277 J**	< 1		
1,1-Dichloroethane	2015-03	ug/L	**10.1**	< 1.00	**11.4**	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1-Dichloroethane	2015-09	ug/L		**1.03**		< 1	< 1	< 1	< 1								
1,1-Dichloroethane	2015-10	ug/L	**14.2**		**13.2**					< 1	< 1	< 1	< 1	< 1	< 1		
1,1-Dichloroethane	2016-03	ug/L	**12.6**	**0.564 J**	**8.34**	**0.279 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1-Dichloroethane	2016-06	ug/L															
1,1-Dichloroethane	2016-08	ug/L	**9.29**	< 1	**8.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1-Dichloroethane	2017-03	ug/L	**10.9**	< 1	**6.92**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,1-Dichloroethane	2017-08	ug/L	**6.22**	**0.417 J**	**8.08**	< 1	< 1	**0.325 J**	< 1	< 1	< 1	< 1	< 1	**0.403 J**	< 1		
1,1-Dichloroethane	2017-11	ug/L														< 1	< 1
1,1-Dichloroethane	2018-03	ug/L	**11.4**	**0.364 J**	**7.85**	< 1	< 1	**0.324 J**	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	2018-06	ug/L														< 1	< 1
1,1-Dichloroethane	2018-08	ug/L	**6.81**	< 1	**9.2**	< 1	< 1	**0.363 J**	< 1	< 1		< 1	< 1	< 1			
1,1-Dichloroethane	2018-09	ug/L													< 1	< 1	< 1
1,1-Dichloroethane	2018-11	ug/L														< 1	< 1
1,1-Dichloroethane	2019-03	ug/L	**15.1**	< 1	**2.31**	< 1	< 1	**0.334 J**	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	2019-08	ug/L	**2.04**	**0.353 J**	**6.73**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.524 J**	< 1	< 1	< 1
1,1-Dichloroethane	2020-03	ug/L	**3.48**	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,1-Dichloroethane	2020-04	ug/L			**2.25**									< 1			
1,1-Dichloroethane	2020-08	ug/L	**1.67**	< 1	**5.62**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1-Dichloroethane	2021-03	ug/L		< 1			< 1			< 1							
1,1-Dichloroethane	2021-08	ug/L	**11 J+**	< 1	**5.37**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1-Dichloroethane	2022-03	ug/L		< 1			< 1			< 1							
1,1-Dichloroethane	2022-08	ug/L	**4.44**	< 1	**4.98**	< 1	< 1	**0.398 J**	< 1	< 1			< 1	< 1	< 1		< 1
1,1-Dichloroethane	2023-01	ug/L															
1,1-Dichloroethane	2023-03	ug/L		< 1			< 1			< 1							
1,1-Dichloroethane	2023-08	ug/L	**7.97**	< 1	**4.75**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,1-Dichloroethane	2024-03	ug/L		< 1			< 1			< 1							
1,1-Dichloroethane	2024-08	ug/L	**11.1**	< 1	**2.17**	< 1	< 1	**0.318 J**	< 1	< 1			< 1	< 1	< 1		< 1
1,1-Dichloroethene	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
1,1-Dichloroethene	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
1,1-Dichloroethene	2009-07	ug/L	< 2.00	< 2	< 2	< 2	< 2.00										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,1-Dichloroethene	2009-09	ug/L	< 2	< 2.00		< 2.00		< 2.00	< 2.00	< 10.0	< 2.00	< 2	< 2	< 2	< 2	< 2	< 2	
1,1-Dichloroethene	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2011-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2012-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2012-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2013-03	ug/L	< 2.00	< 2		< 2.00	< 2.00		< 2	< 2	< 2	< 2	< 2	< 2	< 2.00	< 2.00	< 2	< 2
1,1-Dichloroethene	2013-05	ug/L			< 2.00			< 2.00										
1,1-Dichloroethene	2013-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2013-11	ug/L																
1,1-Dichloroethene	2014-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2014-06	ug/L																
1,1-Dichloroethene	2014-09	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2015-03	ug/L	< 2	< 2	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2	< 2.00
1,1-Dichloroethene	2015-09	ug/L	< 2	< 2		< 2	< 2	< 2			< 2	< 2	< 2	< 2		< 2	< 2	
1,1-Dichloroethene	2015-10	ug/L			< 2				< 2	< 2					< 2			< 2
1,1-Dichloroethene	2016-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2016-06	ug/L			< 2	< 2												
1,1-Dichloroethene	2016-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2017-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2017-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2017-11	ug/L																
1,1-Dichloroethene	2018-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2018-06	ug/L																
1,1-Dichloroethene	2018-08	ug/L	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
1,1-Dichloroethene	2018-09	ug/L					< 2						< 2	< 2				
1,1-Dichloroethene	2018-11	ug/L																
1,1-Dichloroethene	2019-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2019-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2020-03	ug/L	< 2	< 2	< 2			< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2020-04	ug/L				< 2	< 2		< 2									
1,1-Dichloroethene	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2021-03	ug/L							< 2	< 2	< 2	< 2						
1,1-Dichloroethene	2021-08	ug/L	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2022-03	ug/L							< 2	< 2	< 2	< 2						
1,1-Dichloroethene	2022-08	ug/L	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2023-01	ug/L															< 2	
1,1-Dichloroethene	2023-03	ug/L							< 2	< 2	< 2	< 2					< 2	
1,1-Dichloroethene	2023-08	ug/L	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2024-03	ug/L							< 2	< 2	< 2	< 2						
1,1-Dichloroethene	2024-08	ug/L	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloropropene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
1,1-Dichloropropene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
1,1-Dichloropropene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1-Dichloropropene	2010-09	ug/L	< 1.00	< 1.00	< 1.00			< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	
1,1-Dichloropropene	2011-03	ug/L	< 1.00	< 1.00	< 1.00			< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1,1-Dichloropropene	2012-09	ug/L														< 4.00		
1,1-Dichloropropene	2015-09	ug/L	< 1	< 1			< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
1,1-Dichloropropene	2015-10	ug/L							< 1	< 1					< 1			< 1
1,1-Dichloropropene	2016-03	ug/L			< 1	< 1												
1,1-Dichloropropene	2016-06	ug/L			< 1	< 1												
1,1-Dichloropropene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	2023-01	ug/L															< 1	
1,1-Dichloropropene	2023-03	ug/L															< 1	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,1-Dichloroethene	2009-09	ug/L	< 2.00	< 10.0	< 2.00	< 2.00	< 2.00										
1,1-Dichloroethene	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2011-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2012-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2012-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2013-03	ug/L	< 2	< 2	< 50.0		< 2.00	< 2	< 2								
1,1-Dichloroethene	2013-05	ug/L															
1,1-Dichloroethene	2013-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2013-11	ug/L									< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2014-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2014-06	ug/L									< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2014-09	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2		
1,1-Dichloroethene	2015-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2	< 2	< 2		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2015-09	ug/L		< 2		< 2	< 2	< 2	< 2								
1,1-Dichloroethene	2015-10	ug/L	< 2		< 2					< 2	< 2	< 2	< 2	< 2	< 2		
1,1-Dichloroethene	2016-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
1,1-Dichloroethene	2016-06	ug/L															
1,1-Dichloroethene	2016-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
1,1-Dichloroethene	2017-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
1,1-Dichloroethene	2017-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
1,1-Dichloroethene	2017-11	ug/L														< 2	< 2
1,1-Dichloroethene	2018-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2018-06	ug/L														< 2	< 2
1,1-Dichloroethene	2018-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2			
1,1-Dichloroethene	2018-09	ug/L													< 2	< 2	< 2
1,1-Dichloroethene	2018-11	ug/L														< 2	< 2
1,1-Dichloroethene	2019-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2019-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2020-03	ug/L	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2
1,1-Dichloroethene	2020-04	ug/L			< 2									< 2			
1,1-Dichloroethene	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
1,1-Dichloroethene	2021-03	ug/L		< 2			< 2			< 2							
1,1-Dichloroethene	2021-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
1,1-Dichloroethene	2022-03	ug/L		< 2			< 2			< 2							
1,1-Dichloroethene	2022-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
1,1-Dichloroethene	2023-01	ug/L															
1,1-Dichloroethene	2023-03	ug/L		< 2			< 2			< 2							
1,1-Dichloroethene	2023-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
1,1-Dichloroethene	2024-03	ug/L		< 2			< 2			< 2							
1,1-Dichloroethene	2024-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
1,1-Dichloropropene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1-Dichloropropene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,1-Dichloropropene	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
1,1-Dichloropropene	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
1,1-Dichloropropene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,1-Dichloropropene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00										
1,1-Dichloropropene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00									
1,1-Dichloropropene	2012-09	ug/L				< 4.00											
1,1-Dichloropropene	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,1-Dichloropropene	2015-10	ug/L	< 1		< 1					< 1							
1,1-Dichloropropene	2016-03	ug/L					< 1			< 1							
1,1-Dichloropropene	2016-06	ug/L															
1,1-Dichloropropene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1							
1,1-Dichloropropene	2023-01	ug/L															
1,1-Dichloropropene	2023-03	ug/L					< 1			< 1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,2,3-Trichloropropane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
1,2,3-Trichloropropane	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
1,2,3-Trichloropropane	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
1,2,3-Trichloropropane	2013-05	ug/L			< 1.00			< 1.00										
1,2,3-Trichloropropane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2013-11	ug/L																
1,2,3-Trichloropropane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2014-06	ug/L																
1,2,3-Trichloropropane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
1,2,3-Trichloropropane	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
1,2,3-Trichloropropane	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
1,2,3-Trichloropropane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2016-06	ug/L			< 1	< 1												
1,2,3-Trichloropropane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2017-11	ug/L																
1,2,3-Trichloropropane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2018-06	ug/L																
1,2,3-Trichloropropane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2018-09	ug/L					< 1						< 1	< 1				
1,2,3-Trichloropropane	2018-11	ug/L																
1,2,3-Trichloropropane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2020-04	ug/L				< 1	< 1		< 1									
1,2,3-Trichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2021-03	ug/L							< 1	< 1	< 1	< 1						
1,2,3-Trichloropropane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2022-03	ug/L							< 1	< 1	< 1	< 1						
1,2,3-Trichloropropane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2023-01	ug/L															< 1	
1,2,3-Trichloropropane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
1,2,3-Trichloropropane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2024-03	ug/L							< 1	< 1	< 1	< 1						
1,2,3-Trichloropropane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4,5-Tetrachlorobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
1,2,4,5-Tetrachlorobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
1,2,4,5-Tetrachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
1,2,4,5-Tetrachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
1,2,4,5-Tetrachlorobenzene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
1,2,4,5-Tetrachlorobenzene	2016-03	ug/L			< 11.1	< 11.2												
1,2,4,5-Tetrachlorobenzene	2016-06	ug/L			< 11.4	< 11.4												
1,2,4,5-Tetrachlorobenzene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,2,3-Trichloropropane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,2,3-Trichloropropane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,2,3-Trichloropropane	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
1,2,3-Trichloropropane	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
1,2,3-Trichloropropane	2010-03	ug/L	< 1.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 2.00								
1,2,3-Trichloropropane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
1,2,3-Trichloropropane	2013-05	ug/L															
1,2,3-Trichloropropane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,2,3-Trichloropropane	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,2,3-Trichloropropane	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
1,2,3-Trichloropropane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2,3-Trichloropropane	2016-06	ug/L															
1,2,3-Trichloropropane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2,3-Trichloropropane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2,3-Trichloropropane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2,3-Trichloropropane	2017-11	ug/L														< 1	< 1
1,2,3-Trichloropropane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2018-06	ug/L														< 1	< 1
1,2,3-Trichloropropane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,2,3-Trichloropropane	2018-09	ug/L													< 1	< 1	< 1
1,2,3-Trichloropropane	2018-11	ug/L														< 1	< 1
1,2,3-Trichloropropane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,2,3-Trichloropropane	2020-04	ug/L			< 1									< 1			
1,2,3-Trichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2,3-Trichloropropane	2021-03	ug/L		< 1			< 1			< 1							
1,2,3-Trichloropropane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2,3-Trichloropropane	2022-03	ug/L		< 1			< 1			< 1							
1,2,3-Trichloropropane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2,3-Trichloropropane	2023-01	ug/L															
1,2,3-Trichloropropane	2023-03	ug/L		< 1			< 1			< 1							
1,2,3-Trichloropropane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2,3-Trichloropropane	2024-03	ug/L		< 1			< 1			< 1							
1,2,3-Trichloropropane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2,4,5-Tetrachlorobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
1,2,4,5-Tetrachlorobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1,2,4,5-Tetrachlorobenzene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
1,2,4,5-Tetrachlorobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2,4,5-Tetrachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2,4,5-Tetrachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
1,2,4,5-Tetrachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
1,2,4,5-Tetrachlorobenzene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
1,2,4,5-Tetrachlorobenzene	2015-10	ug/L	< 11.8		< 10.3					< 11							
1,2,4,5-Tetrachlorobenzene	2016-03	ug/L					< 10.9			< 11.2							
1,2,4,5-Tetrachlorobenzene	2016-06	ug/L															
1,2,4,5-Tetrachlorobenzene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,2,4,5-Tetrachlorobenzene	2023-01	ug/L															< 10.9	
1,2,4,5-Tetrachlorobenzene	2023-03	ug/L															< 10.4	
1,2,4-Trichlorobenzene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	2009-07	ug/L	< 5	< 5.00		< 5		< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	
1,2,4-Trichlorobenzene	2009-09	ug/L	< 5	< 5.00		< 5.00		< 5.00	< 5.00	< 25.0	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	
1,2,4-Trichlorobenzene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,2,4-Trichlorobenzene	2010-09	ug/L	< 5.00	< 5.00	< 5.00			< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	
1,2,4-Trichlorobenzene	2011-03	ug/L	< 5.00	< 5.00	< 5.00			< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	
1,2,4-Trichlorobenzene	2012-09	ug/L														< 5.00		
1,2,4-Trichlorobenzene	2015-09	ug/L	< 5	< 5			< 5	< 5			< 5	< 5	< 5	< 5		< 5	< 5	
1,2,4-Trichlorobenzene	2015-10	ug/L							< 5	< 5					< 5			< 5
1,2,4-Trichlorobenzene	2016-03	ug/L			< 5	< 5												
1,2,4-Trichlorobenzene	2016-06	ug/L			< 5	< 5												
1,2,4-Trichlorobenzene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	2023-01	ug/L															< 5	
1,2,4-Trichlorobenzene	2023-03	ug/L															< 5	
1,2-Dibromo-3-chloropropane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	2009-07	ug/L	< 10	< 10.0		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
1,2-Dibromo-3-chloropropane	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
1,2-Dibromo-3-chloropropane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 10.0	< 10.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 10.0	< 20.0	< 20.0	< 20.0	< 20.0	< 10.0
1,2-Dibromo-3-chloropropane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2013-03	ug/L	< 10.0	< 10		< 10.0	< 10.0		< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10
1,2-Dibromo-3-chloropropane	2013-05	ug/L			< 10.0			< 10.0										
1,2-Dibromo-3-chloropropane	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2013-11	ug/L																
1,2-Dibromo-3-chloropropane	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2014-06	ug/L																
1,2-Dibromo-3-chloropropane	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	2015-03	ug/L	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
1,2-Dibromo-3-chloropropane	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
1,2-Dibromo-3-chloropropane	2015-10	ug/L			< 10				< 10	< 10					< 10			< 10
1,2-Dibromo-3-chloropropane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	2016-06	ug/L			< 10	< 10												
1,2-Dibromo-3-chloropropane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2017-11	ug/L																
1,2-Dibromo-3-chloropropane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2018-06	ug/L																
1,2-Dibromo-3-chloropropane	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2018-09	ug/L					< 5						< 5	< 5				
1,2-Dibromo-3-chloropropane	2018-11	ug/L																
1,2-Dibromo-3-chloropropane	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2020-03	ug/L	< 5	< 5	< 5			< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2020-04	ug/L				< 5	< 5		< 5									
1,2-Dibromo-3-chloropropane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2021-03	ug/L							< 5	< 5	< 5	< 5						
1,2-Dibromo-3-chloropropane	2021-08	ug/L	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2022-03	ug/L							< 5	< 5	< 5	< 5						
1,2-Dibromo-3-chloropropane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,2,4,5-Tetrachlorobenzene	2023-01	ug/L															
1,2,4,5-Tetrachlorobenzene	2023-03	ug/L					< 10			< 10							
1,2,4-Trichlorobenzene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
1,2,4-Trichlorobenzene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
1,2,4-Trichlorobenzene	2009-07	ug/L	< 5.00	< 5	< 5	< 5	< 5.00										
1,2,4-Trichlorobenzene	2009-09	ug/L	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00										
1,2,4-Trichlorobenzene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
1,2,4-Trichlorobenzene	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00										
1,2,4-Trichlorobenzene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00									
1,2,4-Trichlorobenzene	2012-09	ug/L				< 5.00											
1,2,4-Trichlorobenzene	2015-09	ug/L		< 5		< 5	< 5	< 5	< 5								
1,2,4-Trichlorobenzene	2015-10	ug/L	< 5		< 5					< 5							
1,2,4-Trichlorobenzene	2016-03	ug/L					< 5			< 5							
1,2,4-Trichlorobenzene	2016-06	ug/L															
1,2,4-Trichlorobenzene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5							
1,2,4-Trichlorobenzene	2023-01	ug/L															
1,2,4-Trichlorobenzene	2023-03	ug/L					< 5			< 5							
1,2-Dibromo-3-chloropropane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1,2-Dibromo-3-chloropropane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1,2-Dibromo-3-chloropropane	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
1,2-Dibromo-3-chloropropane	2009-09	ug/L	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0										
1,2-Dibromo-3-chloropropane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2013-03	ug/L	< 10	< 10	< 250		< 10.0	< 10	< 10								
1,2-Dibromo-3-chloropropane	2013-05	ug/L															
1,2-Dibromo-3-chloropropane	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2013-11	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2014-06	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
1,2-Dibromo-3-chloropropane	2015-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
1,2-Dibromo-3-chloropropane	2015-10	ug/L	< 10		< 10					< 10	< 10	< 10	< 10	< 10	< 10		
1,2-Dibromo-3-chloropropane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
1,2-Dibromo-3-chloropropane	2016-06	ug/L															
1,2-Dibromo-3-chloropropane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
1,2-Dibromo-3-chloropropane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
1,2-Dibromo-3-chloropropane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
1,2-Dibromo-3-chloropropane	2017-11	ug/L														< 5	< 5
1,2-Dibromo-3-chloropropane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2018-06	ug/L														< 5	< 5
1,2-Dibromo-3-chloropropane	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5			
1,2-Dibromo-3-chloropropane	2018-09	ug/L													< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2018-11	ug/L														< 5	< 5
1,2-Dibromo-3-chloropropane	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2020-03	ug/L	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2020-04	ug/L			< 5									< 5			
1,2-Dibromo-3-chloropropane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
1,2-Dibromo-3-chloropropane	2021-03	ug/L		< 5			< 5			< 5							
1,2-Dibromo-3-chloropropane	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
1,2-Dibromo-3-chloropropane	2022-03	ug/L		< 5			< 5			< 5							
1,2-Dibromo-3-chloropropane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,2-Dibromo-3-chloropropane	2023-01	ug/L															< 5	
1,2-Dibromo-3-chloropropane	2023-03	ug/L							< 5	< 5	< 5	< 5					< 5	
1,2-Dibromo-3-chloropropane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2024-03	ug/L							< 5	< 5	< 5	< 5						
1,2-Dibromo-3-chloropropane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	2009-07	ug/L	< 10	< 10.0		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
1,2-Dibromoethane	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
1,2-Dibromoethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2013-03	ug/L	< 10.0	< 10		< 10.0	< 10.0		< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10
1,2-Dibromoethane	2013-05	ug/L			< 10.0			< 10.0										
1,2-Dibromoethane	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2013-11	ug/L																
1,2-Dibromoethane	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2014-06	ug/L																
1,2-Dibromoethane	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	2015-03	ug/L	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
1,2-Dibromoethane	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
1,2-Dibromoethane	2015-10	ug/L			< 10				< 10	< 10					< 10			< 10
1,2-Dibromoethane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	2016-06	ug/L			< 10	< 10												
1,2-Dibromoethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2017-11	ug/L																
1,2-Dibromoethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2018-06	ug/L																
1,2-Dibromoethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dibromoethane	2018-09	ug/L					< 1						< 1	< 1				
1,2-Dibromoethane	2018-11	ug/L																
1,2-Dibromoethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2020-04	ug/L				< 1	< 1		< 1									
1,2-Dibromoethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2021-03	ug/L							< 1	< 1	< 1	< 1						
1,2-Dibromoethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2022-03	ug/L							< 1	< 1	< 1	< 1						
1,2-Dibromoethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2023-01	ug/L															< 1	
1,2-Dibromoethane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
1,2-Dibromoethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2024-03	ug/L							< 1	< 1	< 1	< 1						
1,2-Dibromoethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**3.71**	**2.22**	< 1	< 1	< 1	< 1	< 1	**6.78**	< 1	< 1
1,2-Dichlorobenzene	2009-03	ug/L	**1.22**	< 1	< 1	< 1	< 1	< 1	< 1	**2.25**	< 1	< 1	< 1	< 1	< 1	**5.7**	< 1	< 1
1,2-Dichlorobenzene	2009-07	ug/L	**1.11**	< 1.00		< 1		< 1	**2.34**	**2.34**	< 1	< 1	< 1.00	< 1.00	< 1	**4.94**	< 1	
1,2-Dichlorobenzene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	**3.34**	< 5.00	< 1.00	< 1	< 1	< 1	< 1	**4.52**	< 1	
1,2-Dichlorobenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**2.49**	**3.34**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**5.93**	< 1.00	< 1.00
1,2-Dichlorobenzene	2010-09	ug/L	**1.16**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**4.57**	**3.90**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**4.90**	< 1.00	< 1.00
1,2-Dichlorobenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	**1.09**	**2.99**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**4.87**	< 1.00	< 1.00

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,2-Dibromo-3-chloropropane	2023-01	ug/L															
1,2-Dibromo-3-chloropropane	2023-03	ug/L		< 5			< 5			< 5							
1,2-Dibromo-3-chloropropane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
1,2-Dibromo-3-chloropropane	2024-03	ug/L		< 5			< 5			< 5							
1,2-Dibromo-3-chloropropane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
1,2-Dibromoethane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1,2-Dibromoethane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1,2-Dibromoethane	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
1,2-Dibromoethane	2009-09	ug/L	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0										
1,2-Dibromoethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2013-03	ug/L	< 10	< 10	< 250		< 10.0	< 10	< 10								
1,2-Dibromoethane	2013-05	ug/L															
1,2-Dibromoethane	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2013-11	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2014-06	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
1,2-Dibromoethane	2015-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
1,2-Dibromoethane	2015-10	ug/L	< 10		< 10					< 10	< 10	< 10	< 10	< 10	< 10		
1,2-Dibromoethane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
1,2-Dibromoethane	2016-06	ug/L															
1,2-Dibromoethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dibromoethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dibromoethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dibromoethane	2017-11	ug/L														< 1	< 1
1,2-Dibromoethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2018-06	ug/L														< 1	< 1
1,2-Dibromoethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,2-Dibromoethane	2018-09	ug/L													< 1	< 1	< 1
1,2-Dibromoethane	2018-11	ug/L														< 1	< 1
1,2-Dibromoethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,2-Dibromoethane	2020-04	ug/L			< 1									< 1			
1,2-Dibromoethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dibromoethane	2021-03	ug/L		< 1			< 1			< 1							
1,2-Dibromoethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dibromoethane	2022-03	ug/L		< 1			< 1			< 1							
1,2-Dibromoethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dibromoethane	2023-01	ug/L															
1,2-Dibromoethane	2023-03	ug/L		< 1			< 1			< 1							
1,2-Dibromoethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dibromoethane	2024-03	ug/L		< 1			< 1			< 1							
1,2-Dibromoethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichlorobenzene	2008-08	ug/L	< 1	**1.53**	**2.57**	< 1	< 1	< 1	< 1								
1,2-Dichlorobenzene	2009-03	ug/L	< 1	**1.24**	**1.82**	< 1	< 1	< 1	< 1								
1,2-Dichlorobenzene	2009-07	ug/L	< 1.00	**1.1**	**2.03**	< 1	< 1.00										
1,2-Dichlorobenzene	2009-09	ug/L	< 1.00	< 5.00	**3.30**	< 1.00	< 1.00										
1,2-Dichlorobenzene	2010-03	ug/L	< 1.00	**2.22**	**4.95**	< 1.00	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2010-09	ug/L	< 1.00	**1.16**	**2.25**	< 1.00	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2011-03	ug/L	< 1.00	**1.21**	**2.21**	< 1.00	< 1.00	< 1.00	< 1.00								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,2-Dichlorobenzene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.65	4.51	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.53	< 1.00	< 1.00
1,2-Dichlorobenzene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.47	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.45	< 1.00	< 1.00
1,2-Dichlorobenzene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.39	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	6.04	< 1.00	< 1.00
1,2-Dichlorobenzene	2013-03	ug/L	0.577 J	0.359 J		< 1.00	< 1.00		0.833 J	4.57	1.07	< 1	< 1	0.156 J	< 1.00	5.20	< 1	< 1
1,2-Dichlorobenzene	2013-05	ug/L			< 1.00			< 1.00										
1,2-Dichlorobenzene	2013-09	ug/L	0.981 J	0.325 J	< 1.00	< 1.00	< 1.00	< 1.00	3.64	3.65	0.741 J	< 1.00	< 1.00	0.559 J	< 1.00	4.11	< 1.00	< 1.00
1,2-Dichlorobenzene	2013-11	ug/L																
1,2-Dichlorobenzene	2014-03	ug/L	0.913 J	< 1.00	< 1.00	< 1.00	< 1.00	0.910 J	1.05	0.932 J	0.399 J	< 1.00	< 1.00	0.674 J	0.253 J	6.03	< 1.00	< 1.00
1,2-Dichlorobenzene	2014-06	ug/L																
1,2-Dichlorobenzene	2014-09	ug/L	1.07	< 1	< 1	< 1	< 1	< 1	3.56	3.17	0.721 J	< 1	< 1	< 1	< 1	4.02	< 1	< 1
1,2-Dichlorobenzene	2015-03	ug/L	0.765 J	0.234 J	< 1.00	< 1.00	< 1.00	< 1.00	0.610 J	2.47	0.337 J	< 1	< 1.00	0.337 J	< 1	3.36	< 1	< 1.00
1,2-Dichlorobenzene	2015-09	ug/L	0.534 J	< 1		< 1	< 1	< 1			1.07	< 1	< 1	0.288 J		2.66	< 1	
1,2-Dichlorobenzene	2015-10	ug/L			< 1				1.43	2.03					< 1			< 1
1,2-Dichlorobenzene	2016-03	ug/L	0.708 J	< 1	< 1	< 1	< 1	< 1	4.74	2.32	1.26	< 1	< 1	< 1	< 1	1.72	< 1	< 1
1,2-Dichlorobenzene	2016-06	ug/L			< 1	< 1												
1,2-Dichlorobenzene	2016-08	ug/L	0.363 J	< 1	< 1	< 1	< 1	< 1	4.72	2.08	1.34	< 1	< 1	< 1	< 1	2.33	< 1	< 1
1,2-Dichlorobenzene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	4.24	2.64	1.82	< 1	< 1	< 1	< 1	6.2	< 1	< 1
1,2-Dichlorobenzene	2017-08	ug/L	0.51 J	< 1	< 1	< 1	< 1	< 1	1.63	1.99	1.23	< 1	< 1	0.241 J	< 1	4.32	< 1	< 1
1,2-Dichlorobenzene	2017-11	ug/L																
1,2-Dichlorobenzene	2018-03	ug/L	0.183 J	< 1	< 1	< 1	< 1	< 1	0.925 J	2.4	1.75	< 1	< 1	< 1	< 1	4.98	< 1	< 1
1,2-Dichlorobenzene	2018-06	ug/L																
1,2-Dichlorobenzene	2018-08	ug/L	0.387 J	< 1	< 1	< 1		< 1	1.66	2.75	1.43	< 1			< 1	1.44	< 1	< 1
1,2-Dichlorobenzene	2018-09	ug/L					< 1						< 1	< 1				
1,2-Dichlorobenzene	2018-11	ug/L																
1,2-Dichlorobenzene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	2.99	2.32	1.89	< 1	< 1	< 1	< 1	4.02	< 1	< 1
1,2-Dichlorobenzene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	4.3	1.6	< 1	< 1	< 1	< 1	< 1	3.54	< 1	< 1
1,2-Dichlorobenzene	2020-03	ug/L	< 1	< 1	< 1			< 1		3.2	1.43	< 1	< 1	< 1	< 1	5.68	< 1	< 1
1,2-Dichlorobenzene	2020-04	ug/L				< 1	< 1		4									
1,2-Dichlorobenzene	2020-08	ug/L	0.672 J	< 1	< 1	< 1	< 1	< 1	4.05	2.57	1.04	< 1	< 1	< 1	< 1	4.65	< 1	< 1
1,2-Dichlorobenzene	2021-03	ug/L							1.86	1.91	1.27	< 1						
1,2-Dichlorobenzene	2021-08	ug/L	0.416 J+	< 1	< 1	< 1	< 10	< 1	0.79 J	1.99	0.725 J	< 1	< 1	< 1	< 1	3.41	< 1	< 1
1,2-Dichlorobenzene	2022-03	ug/L							0.525 J	1.91	1.45	< 1						
1,2-Dichlorobenzene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		1.04	1.89	0.711 J	< 1	< 1	< 1	< 1	3.95	< 1	< 1
1,2-Dichlorobenzene	2023-01	ug/L															< 1	
1,2-Dichlorobenzene	2023-03	ug/L							2.28	2.2	1.21	< 1					< 1	
1,2-Dichlorobenzene	2023-08	ug/L	0.539 J	< 1	< 1	< 1	< 1		< 1	1.24	< 1	< 1	< 1	< 1	< 1	5.07	< 1	< 1
1,2-Dichlorobenzene	2024-03	ug/L							0.623 J	2.51	1.13	< 1						
1,2-Dichlorobenzene	2024-08	ug/L	0.574 J	< 1	< 1	< 1	< 1		2.71	2.15	1.32	< 1	< 1	< 1	< 1	5.54	< 1	< 1
1,2-Dichloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	1.47	1.95	7.41	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2009-03	ug/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.6 J	0.61 J	1.53	9.24	< 0.2	< 0.2	< 0.2	< 0.2	0.65 J	< 0.2	< 0.2
1,2-Dichloroethane	2009-07	ug/L	< 0.2	< 0.200		< 1		0.43 J	< 1 J	1.38	8.47	< 0.2	< 0.200	< 0.200	< 0.2	< 1 J	< 0.2	
1,2-Dichloroethane	2009-09	ug/L	< 0.315	< 0.315		< 1.00		< 1.00	1.19	< 5.00	11.5	< 0.315	< 0.315	< 0.315	< 0.315	< 0.315	< 0.315	
1,2-Dichloroethane	2010-03	ug/L	< 0.315	< 0.315	< 0.315	< 0.315	< 0.315	< 0.315	0.870 J	1.45	4.49	< 0.315	< 0.315	< 0.315	< 0.315	< 0.315	< 0.315	< 0.315
1,2-Dichloroethane	2010-09	ug/L	< 0.315	< 0.315	< 0.315	< 1.00	< 1.00	0.410 J	0.770 J	2.28	5.91	< 0.315	< 1.00	0.320 J	< 0.315	< 0.315	< 0.315	< 1.00
1,2-Dichloroethane	2011-03	ug/L	< 0.180	< 0.180	< 0.180	< 1.00	< 10.0	< 0.180	< 1.00	1.74	5.39	< 0.180	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloroethane	2011-09	ug/L	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	0.490 J	0.450 J	1.35	3.79	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180
1,2-Dichloroethane	2012-03	ug/L	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	0.470	0.310	1.52	2.96	< 0.180	< 0.180	< 0.180	< 0.180	0.190	< 0.180	< 0.180
1,2-Dichloroethane	2012-09	ug/L	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	0.270	0.450	1.49	3.96	< 0.180	< 0.180	0.210	< 0.180	< 1.00	< 0.180	< 0.180
1,2-Dichloroethane	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		0.243 J	1.12	2.57	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
1,2-Dichloroethane	2013-05	ug/L			< 1.00			0.181 J										
1,2-Dichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.441 J	0.650 J	1.02	2.22	< 1.00	< 1.00	0.221 J	< 1.00	0.370 J	< 1.00	< 1.00
1,2-Dichloroethane	2013-11	ug/L																
1,2-Dichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.290 J	< 1.00	2.99	< 1.00	< 1.00	< 1.00	< 1.00	0.399 J	< 1.00	< 1.00
1,2-Dichloroethane	2014-06	ug/L																
1,2-Dichloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	0.421 J	0.5 J	0.91 J	2.3	< 1	< 1	< 1	< 1	0.549 J	< 1	< 1
1,2-Dichloroethane	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.960 J	2.99	< 1	< 1.00	< 1.00	< 1	0.422 J	< 1	< 1.00
1,2-Dichloroethane	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1.93	< 1	< 1	< 1		< 1	< 1	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,2-Dichlorobenzene	2011-09	ug/L	< 1.00	**1.01**	**1.38**	< 1.00	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2012-03	ug/L	< 1.00	< 1.00	**2.48**	< 1.00	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2012-09	ug/L	< 1.00	< 1.00	**3.12**	< 1.00	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2013-03	ug/L	< 1	**0.537 J**	< 25.0		< 1.00	< 1	< 1								
1,2-Dichlorobenzene	2013-05	ug/L															
1,2-Dichlorobenzene	2013-09	ug/L	< 1.00	**1.15**	**2.87**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2014-03	ug/L	< 1.00	< 1.00	**4.30**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2014-09	ug/L	< 1	**1.62**	**2.59**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,2-Dichlorobenzene	2015-03	ug/L	< 1.00	**0.819 J**	**2.48**	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2015-09	ug/L		**1.24**		< 1	< 1	< 1	< 1								
1,2-Dichlorobenzene	2015-10	ug/L	< 1		**1.33**					< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichlorobenzene	2016-03	ug/L	< 1	**1.17**	**2.22**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichlorobenzene	2016-06	ug/L															
1,2-Dichlorobenzene	2016-08	ug/L	< 1	**0.877 J**	**1.25**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichlorobenzene	2017-03	ug/L	< 1	**1.01**	**1.36**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichlorobenzene	2017-08	ug/L	< 1	**0.784 J**	**0.96 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichlorobenzene	2017-11	ug/L														< 1	< 1
1,2-Dichlorobenzene	2018-03	ug/L	< 1	**0.785 J**	**0.638 J**	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2018-06	ug/L														< 1	< 1
1,2-Dichlorobenzene	2018-08	ug/L	< 1	**1.23**	**1.32**	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,2-Dichlorobenzene	2018-09	ug/L													< 1	< 1	< 1
1,2-Dichlorobenzene	2018-11	ug/L														< 1	< 1
1,2-Dichlorobenzene	2019-03	ug/L	< 1	**0.813 J**	**1.41**	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2019-08	ug/L	< 1	**0.495 J**	**1.16**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2020-03	ug/L	< 1	**1.06**		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,2-Dichlorobenzene	2020-04	ug/L			**0.985 J**									< 1			
1,2-Dichlorobenzene	2020-08	ug/L	< 1	**0.972 J**	**1.31**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichlorobenzene	2021-03	ug/L		**0.617 J**			< 1			< 1							
1,2-Dichlorobenzene	2021-08	ug/L	< 1	**0.846 J**	**0.694 J**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichlorobenzene	2022-03	ug/L		< 1			< 1			< 1							
1,2-Dichlorobenzene	2022-08	ug/L	< 1	**0.564 J**	**1.17**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichlorobenzene	2023-01	ug/L															
1,2-Dichlorobenzene	2023-03	ug/L		**0.481 J**			< 1			< 1							
1,2-Dichlorobenzene	2023-08	ug/L	< 1	**0.739 J**	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichlorobenzene	2024-03	ug/L		**0.479 J**			< 1			< 1							
1,2-Dichlorobenzene	2024-08	ug/L	< 1	**0.45 J**	**1.12**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,2-Dichloroethane	2009-03	ug/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2								
1,2-Dichloroethane	2009-07	ug/L	< 0.200	< 1 J	< 1 J	< 1	< 0.200										
1,2-Dichloroethane	2009-09	ug/L	< 0.315	< 5.00	< 1.00	< 1.00	< 0.315										
1,2-Dichloroethane	2010-03	ug/L	< 0.315	< 0.315	**0.570 J**	< 0.315	< 0.315	< 0.315	< 0.315								
1,2-Dichloroethane	2010-09	ug/L	< 0.315	< 0.315	**0.560 J**	< 0.315	< 0.315	< 1.00	< 1.00								
1,2-Dichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 0.180	< 1.00								
1,2-Dichloroethane	2011-09	ug/L	< 0.180	**0.230 J**	**0.300 J**	< 0.180	< 0.180	< 0.180	< 0.180								
1,2-Dichloroethane	2012-03	ug/L	< 0.180	< 0.180	**0.320**	< 0.180	< 0.180	< 0.180	< 0.180								
1,2-Dichloroethane	2012-09	ug/L	< 0.180	< 0.180	**0.380**	< 1.00	< 0.180	< 0.180	< 0.180								
1,2-Dichloroethane	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
1,2-Dichloroethane	2013-05	ug/L															
1,2-Dichloroethane	2013-09	ug/L	< 1.00	< 1.00	**0.185 J**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,2-Dichloroethane	2015-03	ug/L	< 1.00	< 1.00	**0.231 J**	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,2-Dichloroethane	2015-10	ug/L			< 1				< 1	**0.755 J**					< 1			< 1
1,2-Dichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.451 J**	**0.756 J**	**1.29**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2016-06	ug/L			< 1	< 1												
1,2-Dichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.468 J**	**0.762 J**	**0.606 J**	< 1	< 1	< 1	< 1	**0.418 J**	< 1	< 1
1,2-Dichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	**0.245 J**	**0.611 J**	**0.707 J**	< 1	< 1	< 1	< 1	< 1	**0.425 J**	< 1	< 1
1,2-Dichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	**0.276 J**	**0.309 J**	**0.671 J**	**0.422 J**	< 1	< 1	< 1	< 1	**0.528 J**	< 1	< 1
1,2-Dichloroethane	2017-11	ug/L																
1,2-Dichloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	**0.225 J**	**0.279 J**	**0.724 J**	**0.352 J**	< 1	< 1	< 1	< 1	**0.358 J**	< 1	< 1
1,2-Dichloroethane	2018-06	ug/L																
1,2-Dichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	**0.817 J**	**0.575 J**	< 1			< 1	< 1	< 1	< 1
1,2-Dichloroethane	2018-09	ug/L					< 1						< 1	< 1				
1,2-Dichloroethane	2018-11	ug/L																
1,2-Dichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.534 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.481 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2020-03	ug/L	< 1	< 1	< 1			< 1		**0.514 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2020-04	ug/L				< 1	< 1		< 1									
1,2-Dichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.452 J**	**0.548 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2021-03	ug/L							< 1	**0.449 J**	< 1	< 1						
1,2-Dichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	**0.45 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2022-03	ug/L							< 1	< 1	< 1	< 1						
1,2-Dichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2023-01	ug/L															< 1	
1,2-Dichloroethane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
1,2-Dichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2024-03	ug/L							< 1	< 1	< 1	< 1						
1,2-Dichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.54**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2009-03	ug/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	**0.76 J**	**1.84**	**0.7 J**	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloropropane	2009-07	ug/L	< 0.4	< 0.400		< 0.4		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 1.00	< 1.00	< 0.4	< 0.4	< 0.4	
1,2-Dichloropropane	2009-09	ug/L	< 0.195	< 0.195		< 1.00		< 1.00	**1.04**	< 5.00	< 1.00	< 0.195	< 0.195	< 0.195	< 0.195	< 0.195	< 0.195	
1,2-Dichloropropane	2010-03	ug/L	< 0.195	< 0.195	< 0.195	< 0.195	< 0.195	< 0.195	**1.12**	**1.10**	**0.470 J**	< 0.195	< 0.195	< 0.195	< 0.195	< 0.195	< 0.195	< 0.195
1,2-Dichloropropane	2010-09	ug/L	< 0.195	< 0.195	< 0.195	< 1.00	< 1.00	< 0.195	**0.950 J**	**1.41**	< 0.195	< 0.195	< 1.00	< 0.195	< 0.195	< 0.195	< 0.195	< 1.00
1,2-Dichloropropane	2011-03	ug/L	< 0.110	< 0.110	< 0.110	< 1.00	< 10.0	< 0.110	< 1.00	**1.38**	< 0.110	< 0.110	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloropropane	2011-09	ug/L	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	**0.600 J**	**1.06**	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110
1,2-Dichloropropane	2012-03	ug/L	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	**1.00**	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110
1,2-Dichloropropane	2012-09	ug/L	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	**1.14**	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 1.00	< 0.110	< 0.110
1,2-Dichloropropane	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	**0.871 J**	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
1,2-Dichloropropane	2013-05	ug/L			< 1.00			< 1.00										
1,2-Dichloropropane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloropropane	2013-11	ug/L																
1,2-Dichloropropane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloropropane	2014-06	ug/L																
1,2-Dichloropropane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
1,2-Dichloropropane	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
1,2-Dichloropropane	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
1,2-Dichloropropane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2016-06	ug/L			< 1	< 1												
1,2-Dichloropropane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2017-11	ug/L																
1,2-Dichloropropane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2018-06	ug/L																
1,2-Dichloropropane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	**0.428 J**	**0.393 J**	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloropropane	2018-09	ug/L					< 1						< 1	< 1				
1,2-Dichloropropane	2018-11	ug/L																

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,2-Dichloroethane	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloroethane	2016-06	ug/L															
1,2-Dichloroethane	2016-08	ug/L	< 1	< 1	**0.354 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloroethane	2017-08	ug/L	< 1	**0.221 J**	**0.324 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloroethane	2017-11	ug/L														< 1	< 1
1,2-Dichloroethane	2018-03	ug/L	**0.225 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	**0.19 J**	< 1
1,2-Dichloroethane	2018-06	ug/L														< 1	< 1
1,2-Dichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,2-Dichloroethane	2018-09	ug/L													< 1	< 1	< 1
1,2-Dichloroethane	2018-11	ug/L														< 1	< 1
1,2-Dichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,2-Dichloroethane	2020-04	ug/L			< 1									< 1			
1,2-Dichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloroethane	2021-03	ug/L		< 1			< 1			< 1							
1,2-Dichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloroethane	2022-03	ug/L		< 1			< 1			< 1							
1,2-Dichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloroethane	2023-01	ug/L															
1,2-Dichloroethane	2023-03	ug/L		< 1			< 1			< 1							
1,2-Dichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloroethane	2024-03	ug/L		< 1			< 1			< 1							
1,2-Dichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloropropane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,2-Dichloropropane	2009-03	ug/L	**0.44 J**	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4								
1,2-Dichloropropane	2009-07	ug/L	< 0.400	< 0.4	< 0.4	< 0.4	< 0.400										
1,2-Dichloropropane	2009-09	ug/L	< 0.195	< 5.00	< 1.00	< 1.00	< 0.195										
1,2-Dichloropropane	2010-03	ug/L	**0.400 J**	**0.470 J**	**0.780 J**	< 0.195	< 0.195	< 0.195	< 0.195								
1,2-Dichloropropane	2010-09	ug/L	< 0.195	< 0.195	**0.810 J**	< 0.195	< 0.195	< 1.00	< 1.00								
1,2-Dichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 0.110	< 1.00								
1,2-Dichloropropane	2011-09	ug/L	**0.420 J**	< 0.110	**0.650 J**	< 0.110	< 0.110	< 0.110	< 0.110								
1,2-Dichloropropane	2012-03	ug/L	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110								
1,2-Dichloropropane	2012-09	ug/L	< 0.110	< 0.110	**0.610**	< 1.00	< 0.110	< 0.110	< 0.110								
1,2-Dichloropropane	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
1,2-Dichloropropane	2013-05	ug/L															
1,2-Dichloropropane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,2-Dichloropropane	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,2-Dichloropropane	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloropropane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloropropane	2016-06	ug/L															
1,2-Dichloropropane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloropropane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloropropane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloropropane	2017-11	ug/L														< 1	< 1
1,2-Dichloropropane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2018-06	ug/L														< 1	< 1
1,2-Dichloropropane	2018-08	ug/L	**0.436 J**	< 1	**0.453 J**	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,2-Dichloropropane	2018-09	ug/L													< 1	< 1	< 1
1,2-Dichloropropane	2018-11	ug/L														< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,2-Dichloropropane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.448 J**	**0.27 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.586 J**	**0.344 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2020-03	ug/L	< 1	< 1	< 1			< 1		**0.379 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2020-04	ug/L				< 1	< 1		< 1									
1,2-Dichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.433 J**	**0.327 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2021-03	ug/L							**0.399 J**	**0.368 J**	< 1	< 1						
1,2-Dichloropropane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	**0.361 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2022-03	ug/L							**0.308 J**	< 1	< 1	< 1						
1,2-Dichloropropane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		**0.489 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2023-01	ug/L															< 1	
1,2-Dichloropropane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
1,2-Dichloropropane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2024-03	ug/L							< 1	< 1	< 1	< 1						
1,2-Dichloropropane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		**0.318 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trinitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
1,3,5-Trinitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,3,5-Trinitrobenzene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
1,3,5-Trinitrobenzene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
1,3,5-Trinitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
1,3,5-Trinitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
1,3,5-Trinitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
1,3,5-Trinitrobenzene	2011-09	ug/L																
1,3,5-Trinitrobenzene	2012-03	ug/L																
1,3,5-Trinitrobenzene	2012-09	ug/L																
1,3,5-Trinitrobenzene	2013-03	ug/L																
1,3,5-Trinitrobenzene	2013-09	ug/L																
1,3,5-Trinitrobenzene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
1,3,5-Trinitrobenzene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
1,3,5-Trinitrobenzene	2016-03	ug/L			< 11.1	< 11.2												
1,3,5-Trinitrobenzene	2016-06	ug/L			< 11.4	< 11.4												
1,3,5-Trinitrobenzene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
1,3,5-Trinitrobenzene	2023-01	ug/L															< 10.9	
1,3,5-Trinitrobenzene	2023-03	ug/L															< 10.4	
1,3-Dichlorobenzene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	2009-07	ug/L	< 1	< 1.00		< 1		< 1	**5.57**	**9.48**	**1.09**	< 1	< 1.00	< 1.00	< 1	**8.2**	< 1	
1,3-Dichlorobenzene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
1,3-Dichlorobenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3-Dichlorobenzene	2010-09	ug/L	< 1.00	< 1.00	< 1.00			< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	
1,3-Dichlorobenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00			< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1,3-Dichlorobenzene	2011-09	ug/L							< 1.00	< 1.00	< 1.00					< 1.00		
1,3-Dichlorobenzene	2012-03	ug/L							< 1.00	< 1.00	< 1.00					< 1.00		
1,3-Dichlorobenzene	2012-09	ug/L							< 1.00	< 1.00	< 1.00		< 1.00			< 1.00		
1,3-Dichlorobenzene	2013-03	ug/L							**2.16**	< 1	< 1					< 1.00		
1,3-Dichlorobenzene	2013-09	ug/L							< 1.00	< 1.00	< 1.00					< 1.00		
1,3-Dichlorobenzene	2014-03	ug/L							< 1.00	< 1.00	< 1.00					< 1.00		
1,3-Dichlorobenzene	2014-09	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2015-03	ug/L							< 1.00	< 1.00	< 1					< 1		
1,3-Dichlorobenzene	2015-09	ug/L	< 1	< 1			< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
1,3-Dichlorobenzene	2015-10	ug/L							< 1	< 1					< 1			< 1
1,3-Dichlorobenzene	2016-03	ug/L			< 1	< 1			< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2016-06	ug/L			< 1	< 1												
1,3-Dichlorobenzene	2016-08	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2017-03	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2017-08	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2018-03	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2018-08	ug/L							< 1	< 1	< 1					< 1		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,2-Dichloropropane	2019-03	ug/L	**0.341 J**	< 1	**0.466 J**	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2019-08	ug/L	**0.492 J**	< 1	**0.352 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2020-03	ug/L	**0.278 J**	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,2-Dichloropropane	2020-04	ug/L			< 1									< 1			
1,2-Dichloropropane	2020-08	ug/L	**0.357 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloropropane	2021-03	ug/L		< 1			< 1			< 1							
1,2-Dichloropropane	2021-08	ug/L	**1.48 J+**	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloropropane	2022-03	ug/L		< 1			< 1			< 1							
1,2-Dichloropropane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloropropane	2023-01	ug/L															
1,2-Dichloropropane	2023-03	ug/L		< 1			< 1			< 1							
1,2-Dichloropropane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,2-Dichloropropane	2024-03	ug/L		< 1			< 1			< 1							
1,2-Dichloropropane	2024-08	ug/L	**0.353 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,3,5-Trinitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
1,3,5-Trinitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1,3,5-Trinitrobenzene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
1,3,5-Trinitrobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,3,5-Trinitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,3,5-Trinitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
1,3,5-Trinitrobenzene	2011-03	ug/L	< 10.0	**2.88 J**	< 10.0	< 10.0	< 10.0	< 10.0									
1,3,5-Trinitrobenzene	2011-09	ug/L		< 10.0			< 10.0										
1,3,5-Trinitrobenzene	2012-03	ug/L		< 10.0			< 10.0										
1,3,5-Trinitrobenzene	2012-09	ug/L		< 10.0			< 10.0										
1,3,5-Trinitrobenzene	2013-03	ug/L		< 10.5			< 11.8										
1,3,5-Trinitrobenzene	2013-09	ug/L		< 10.1													
1,3,5-Trinitrobenzene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
1,3,5-Trinitrobenzene	2015-10	ug/L	< 11.8		< 10.3					< 11							
1,3,5-Trinitrobenzene	2016-03	ug/L					< 10.9			< 11.2							
1,3,5-Trinitrobenzene	2016-06	ug/L															
1,3,5-Trinitrobenzene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
1,3,5-Trinitrobenzene	2023-01	ug/L															
1,3,5-Trinitrobenzene	2023-03	ug/L					< 10			< 10							
1,3-Dichlorobenzene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,3-Dichlorobenzene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,3-Dichlorobenzene	2009-07	ug/L	< 1.00	< 1	**6.58**	**3.68**	< 1.00										
1,3-Dichlorobenzene	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
1,3-Dichlorobenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,3-Dichlorobenzene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00										
1,3-Dichlorobenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00									
1,3-Dichlorobenzene	2011-09	ug/L			< 1.00	< 1.00	< 1.00										
1,3-Dichlorobenzene	2012-03	ug/L			< 1.00	< 1.00	< 1.00										
1,3-Dichlorobenzene	2012-09	ug/L			< 1.00	< 1.00											
1,3-Dichlorobenzene	2013-03	ug/L			< 25.0		< 1.00										
1,3-Dichlorobenzene	2013-09	ug/L			< 1.00	< 1.00											
1,3-Dichlorobenzene	2014-03	ug/L			< 1.00	< 1.00	< 1.00										
1,3-Dichlorobenzene	2014-09	ug/L			< 1	< 1	< 1										
1,3-Dichlorobenzene	2015-03	ug/L			< 1.00	< 1.00	< 1										
1,3-Dichlorobenzene	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,3-Dichlorobenzene	2015-10	ug/L	< 1		< 1					< 1							
1,3-Dichlorobenzene	2016-03	ug/L			< 1	< 1	< 1			< 1							
1,3-Dichlorobenzene	2016-06	ug/L															
1,3-Dichlorobenzene	2016-08	ug/L			< 1	< 1	< 1			< 1							
1,3-Dichlorobenzene	2017-03	ug/L			< 1	< 1	< 1			< 1							
1,3-Dichlorobenzene	2017-08	ug/L			< 1	< 1	< 1			< 1				< 1			
1,3-Dichlorobenzene	2018-03	ug/L			< 1	< 1	< 1			< 10							
1,3-Dichlorobenzene	2018-08	ug/L			< 1	< 1	< 1			< 1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,3-Dichlorobenzene	2019-03	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2019-08	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2020-03	ug/L								< 1	< 1					< 1		
1,3-Dichlorobenzene	2020-04	ug/L							< 1									
1,3-Dichlorobenzene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	2021-03	ug/L							< 1	< 1	< 1							
1,3-Dichlorobenzene	2021-08	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2022-03	ug/L							< 1	< 1	< 1							
1,3-Dichlorobenzene	2022-08	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2023-01	ug/L															< 1	
1,3-Dichlorobenzene	2023-03	ug/L							< 1	< 1	< 1						< 1	
1,3-Dichlorobenzene	2023-08	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichlorobenzene	2024-03	ug/L							< 1	< 1	< 1							
1,3-Dichlorobenzene	2024-08	ug/L							< 1	< 1	< 1					< 1		
1,3-Dichloropropane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
1,3-Dichloropropane	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
1,3-Dichloropropane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3-Dichloropropane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	
1,3-Dichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00			< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1,3-Dichloropropane	2012-09	ug/L														< 1.00		
1,3-Dichloropropane	2015-09	ug/L	< 1	< 1			< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
1,3-Dichloropropane	2015-10	ug/L							< 1	< 1					< 1			< 1
1,3-Dichloropropane	2016-03	ug/L			< 1	< 1												
1,3-Dichloropropane	2016-06	ug/L			< 1	< 1												
1,3-Dichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	2023-01	ug/L															< 1	
1,3-Dichloropropane	2023-03	ug/L															< 1	
1,3-Dinitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
1,3-Dinitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,3-Dinitrobenzene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
1,3-Dinitrobenzene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
1,3-Dinitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
1,3-Dinitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	**0.170 J**	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
1,3-Dinitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
1,3-Dinitrobenzene	2011-09	ug/L									< 10.0							
1,3-Dinitrobenzene	2012-03	ug/L									< 10.0							
1,3-Dinitrobenzene	2012-09	ug/L									< 10.0							
1,3-Dinitrobenzene	2013-03	ug/L									< 10.6							
1,3-Dinitrobenzene	2013-09	ug/L									< 10.6							
1,3-Dinitrobenzene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
1,3-Dinitrobenzene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
1,3-Dinitrobenzene	2016-03	ug/L			< 11.1	< 11.2												
1,3-Dinitrobenzene	2016-06	ug/L			< 11.4	< 11.4												
1,3-Dinitrobenzene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
1,3-Dinitrobenzene	2023-01	ug/L															< 10.9	
1,3-Dinitrobenzene	2023-03	ug/L															< 10.4	
1,4-Dichlorobenzene	2008-08	ug/L	**1.29**	< 1	< 1	< 1	< 1	< 1	**7.94**	**8.05**	**1.8**	< 1	< 1	< 1	< 1	**11.4**	< 1	< 1
1,4-Dichlorobenzene	2009-03	ug/L	**1.87**	< 1	< 1	< 1	< 1	< 1	**1.84**	**7.28**	**1.13**	< 1	< 1	< 1	< 1	**7.82**	< 1	< 1
1,4-Dichlorobenzene	2009-07	ug/L	**2.23**	< 1.00		< 1		< 1	**5.17**	**8.8**	**1.01**	< 1	< 1.00	< 1.00	< 1	**7.6**	< 1	
1,4-Dichlorobenzene	2009-09	ug/L	**1.89**	< 1.00		< 1.00		< 1.00	**6.42**	**11.2**	< 1.00	< 1	< 1	< 1	< 1	**7.07**	< 1	
1,4-Dichlorobenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**4.70**	**13.8**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**11.0**	< 1.00	< 1.00
1,4-Dichlorobenzene	2010-09	ug/L	**2.55**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**8.95**	**13.4**	**1.56**	< 1.00	< 1.00	< 1.00	< 1.00	**8.09**	< 1.00	< 1.00
1,4-Dichlorobenzene	2011-03	ug/L	**1.68**	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	**2.69**	**10.1**	**1.84**	< 1.00	< 1.00	< 1.00	< 1.00	**8.19**	< 1.00	< 1.00
1,4-Dichlorobenzene	2011-09	ug/L	**1.71**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**3.55**	**14.9**	**1.70**	< 1.00	< 1.00	< 1.00	< 1.00	**7.45**	< 1.00	< 1.00
1,4-Dichlorobenzene	2012-03	ug/L	**1.60**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.56**	**14.7**	**1.95**	< 1.00	< 1.00	< 1.00	< 1.00	**8.10**	< 1.00	< 1.00

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,3-Dichlorobenzene	2019-03	ug/L			< 1	< 1	< 1			< 1							
1,3-Dichlorobenzene	2019-08	ug/L			< 1	< 1	< 1			< 1							
1,3-Dichlorobenzene	2020-03	ug/L				< 1	< 1			< 1							
1,3-Dichlorobenzene	2020-04	ug/L			< 1												
1,3-Dichlorobenzene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1							
1,3-Dichlorobenzene	2021-03	ug/L					< 1			< 1							
1,3-Dichlorobenzene	2021-08	ug/L			< 1	**0.561 J**	< 1			< 1							
1,3-Dichlorobenzene	2022-03	ug/L					< 1			< 1							
1,3-Dichlorobenzene	2022-08	ug/L			< 1	< 1	< 1			< 1							
1,3-Dichlorobenzene	2023-01	ug/L															
1,3-Dichlorobenzene	2023-03	ug/L					< 1			< 1							
1,3-Dichlorobenzene	2023-08	ug/L			< 1	< 1	< 1			< 1							
1,3-Dichlorobenzene	2024-03	ug/L					< 1			< 1							
1,3-Dichlorobenzene	2024-08	ug/L			< 1	< 1	< 1			< 1							
1,3-Dichloropropane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,3-Dichloropropane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
1,3-Dichloropropane	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
1,3-Dichloropropane	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
1,3-Dichloropropane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
1,3-Dichloropropane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00										
1,3-Dichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00									
1,3-Dichloropropane	2012-09	ug/L			< 2.00	< 1.00											
1,3-Dichloropropane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,3-Dichloropropane	2015-10	ug/L	< 1		< 1					< 1							
1,3-Dichloropropane	2016-03	ug/L					< 1			< 1							
1,3-Dichloropropane	2016-06	ug/L															
1,3-Dichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1							
1,3-Dichloropropane	2023-01	ug/L															
1,3-Dichloropropane	2023-03	ug/L					< 1			< 1							
1,3-Dinitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
1,3-Dinitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1,3-Dinitrobenzene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
1,3-Dinitrobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,3-Dinitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,3-Dinitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
1,3-Dinitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
1,3-Dinitrobenzene	2011-09	ug/L					< 10.0										
1,3-Dinitrobenzene	2012-03	ug/L					< 10.0										
1,3-Dinitrobenzene	2012-09	ug/L					< 10.0										
1,3-Dinitrobenzene	2013-03	ug/L					< 11.8										
1,3-Dinitrobenzene	2013-09	ug/L															
1,3-Dinitrobenzene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
1,3-Dinitrobenzene	2015-10	ug/L	< 11.8		< 10.3					< 11							
1,3-Dinitrobenzene	2016-03	ug/L					< 10.9			< 11.2							
1,3-Dinitrobenzene	2016-06	ug/L															
1,3-Dinitrobenzene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
1,3-Dinitrobenzene	2023-01	ug/L															
1,3-Dinitrobenzene	2023-03	ug/L					< 10			< 10							
1,4-Dichlorobenzene	2008-08	ug/L	< 1	**7.09**	**7.73**	< 1	< 1	< 1	< 1								
1,4-Dichlorobenzene	2009-03	ug/L	< 1	**5.57**	**4.34**	< 1	< 1	< 1	< 1								
1,4-Dichlorobenzene	2009-07	ug/L	< 1.00	**6.1**	**6.1**	**3.42**	< 1.00										
1,4-Dichlorobenzene	2009-09	ug/L	< 1.00	**6.00**	**8.54**	< 1.00	< 1.00										
1,4-Dichlorobenzene	2010-03	ug/L	< 1.00	**10.1**	**10.3**	< 1.00	< 1.00	< 1.00	< 1.00								
1,4-Dichlorobenzene	2010-09	ug/L	< 1.00	**6.15**	**5.41**	< 1.00	< 1.00	< 1.00	< 1.00								
1,4-Dichlorobenzene	2011-03	ug/L	< 1.00	**5.99**	**5.02**	< 1.00	< 1.00	< 1.00	< 1.00								
1,4-Dichlorobenzene	2011-09	ug/L	< 1.00	**5.55**	**3.34**	< 1.00	< 1.00	< 1.00	< 1.00								
1,4-Dichlorobenzene	2012-03	ug/L	< 1.00	**4.87**	**5.01**	< 1.00	< 1.00	< 1.00	< 1.00								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1,4-Dichlorobenzene	2012-09	ug/L	**1.75**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**2.24**	**12.1**	**2.95**	< 1.00	< 1.00	< 1.00	< 1.00	**10.0**	< 1.00	< 1.00
1,4-Dichlorobenzene	2013-03	ug/L	**1.17**	< 1		< 1.00	< 1.00		**2.07**	**16.3**	**3.94**	< 1	< 1	**0.289 J**	< 1.00	**8.80**	< 1	< 1
1,4-Dichlorobenzene	2013-05	ug/L			< 1.00			< 1.00										
1,4-Dichlorobenzene	2013-09	ug/L	**2.17**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**7.05**	**13.8**	**2.61**	< 1.00	< 1.00	**0.686 J**	< 1.00	**6.92**	< 1.00	< 1.00
1,4-Dichlorobenzene	2013-11	ug/L																
1,4-Dichlorobenzene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**3.95**	< 1.00	**0.808 J**	**1.96**	< 1.00	< 1.00	< 1.00	**0.428 J**	**9.87**	< 1.00	< 1.00
1,4-Dichlorobenzene	2014-06	ug/L																
1,4-Dichlorobenzene	2014-09	ug/L	**2.41**	< 1	< 1	< 1	< 1	< 1	**7.45**	**15.1**	**2.33**	< 1	< 1	< 1	< 1	**7.33**	< 1	< 1
1,4-Dichlorobenzene	2015-03	ug/L	**1.65**	< 1	< 1.00	< 1.00	< 1.00	< 1.00	**1.17**	**10.9**	< 1	< 1	< 1.00	**0.298 J**	< 1	**5.52**	< 1	< 1.00
1,4-Dichlorobenzene	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			**3.53**	< 1	< 1	< 1		**4.31**	< 1	
1,4-Dichlorobenzene	2015-10	ug/L			< 1				**3.03**	**9.99**					< 1			**0.807 J**
1,4-Dichlorobenzene	2016-03	ug/L	**1.76**	**0.281 J**	< 1	< 1	< 1	< 1	**9.09**	**12.7**	**3.81**	< 1	< 1	< 1	< 1	**3.71**	< 1	< 1
1,4-Dichlorobenzene	2016-06	ug/L			< 1	< 1												
1,4-Dichlorobenzene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**9.12**	**15**	**7.43**	< 1	< 1	< 1	< 1	**5.08**	< 1	< 1
1,4-Dichlorobenzene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**8.46**	**14.9**	< 1	< 1	< 1	**0.202 J**	< 1	**11.6**	< 1	< 1
1,4-Dichlorobenzene	2017-08	ug/L	**1.41**	< 1	< 1	< 1	< 1	< 1	**3.12**	**11.9**	**4.7**	< 1	< 1	< 1	< 1	**7.87**	< 1	< 1
1,4-Dichlorobenzene	2017-11	ug/L																
1,4-Dichlorobenzene	2018-03	ug/L	**0.657 J**	< 1	< 1	< 1	< 1	< 1	**1.55**	**12.2**	**6.35**	< 1	< 1	< 1	< 1	**10.5**	< 1	< 1
1,4-Dichlorobenzene	2018-06	ug/L																
1,4-Dichlorobenzene	2018-08	ug/L	**1.19**	< 1	< 1	< 1		< 1	**3.26**	**13.5**	**5.8**	< 1			< 1	**4.27**	< 1	< 1
1,4-Dichlorobenzene	2018-09	ug/L					< 1						< 1	< 1				
1,4-Dichlorobenzene	2018-11	ug/L																
1,4-Dichlorobenzene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**5.51**	**14.7**	**7.88**	< 1	< 1	< 1	< 1	**9.66**	< 1	< 1
1,4-Dichlorobenzene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**11.2**	**13.7**	**3.36**	< 1	< 1	< 1	< 1	**8.81**	< 1	< 1
1,4-Dichlorobenzene	2020-03	ug/L	**0.541 J**	< 1	< 1			**0.268 J**		**19.5**	**5.37**	< 1	< 1	**0.569 J**	< 1	**12.6**	< 1	< 1
1,4-Dichlorobenzene	2020-04	ug/L				< 1	< 1		**8.64**									
1,4-Dichlorobenzene	2020-08	ug/L	**1.44**	**0.247 J**	< 1	< 1	< 1	**0.247 J**	**9.74**	**16.2**	**4.34**	< 1	< 1	**0.614 J**	< 1	**9.64**	< 1	< 1
1,4-Dichlorobenzene	2021-03	ug/L							**4.13**	**11.8**	**4.45**	< 1						
1,4-Dichlorobenzene	2021-08	ug/L	**0.928 J+**	< 1	< 1	< 1	< 10	< 1	**1.68**	**13.3**	**2.94**	< 1	< 1	**0.638 J**	< 1	**7.96**	< 1	< 1
1,4-Dichlorobenzene	2022-03	ug/L							**1.11**	**13**	**5.68**	< 1						
1,4-Dichlorobenzene	2022-08	ug/L	**0.665 J**	< 1	< 1	< 1	< 1		**2.34**	**13.3**	**2.8**	< 1	< 1	< 1	< 1	**11.1**	< 1	< 1
1,4-Dichlorobenzene	2023-01	ug/L															< 1	
1,4-Dichlorobenzene	2023-03	ug/L							**5.99**	**14.6**	**5.2**	< 1					< 1	
1,4-Dichlorobenzene	2023-08	ug/L	**1.19**	< 1	< 1	< 1	< 1		**1.24**	**12.9**	< 1	< 1	< 1	< 1	< 1	**11.9**	< 1	< 1
1,4-Dichlorobenzene	2024-03	ug/L							**1.2**	**15**	**4.6**	< 1						
1,4-Dichlorobenzene	2024-08	ug/L	**1.26**	< 1	< 1	< 1	< 1		**8.01**	**12.4**	**5.18**	< 1	< 1	**0.348 J**	< 1	**11.7**	< 1	< 1
1,4-Naphthoquinone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
1,4-Naphthoquinone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Naphthoquinone	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
1,4-Naphthoquinone	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
1,4-Naphthoquinone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
1,4-Naphthoquinone	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
1,4-Naphthoquinone	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
1,4-Naphthoquinone	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
1,4-Naphthoquinone	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
1,4-Naphthoquinone	2016-03	ug/L			< 11.1	< 11.2												
1,4-Naphthoquinone	2016-06	ug/L			< 11.4	< 11.4												
1,4-Naphthoquinone	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
1,4-Naphthoquinone	2023-01	ug/L															< 10.9	
1,4-Naphthoquinone	2023-03	ug/L															< 10.4	
1-Naphthylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
1-Naphthylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1-Naphthylamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
1-Naphthylamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
1-Naphthylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
1-Naphthylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
1-Naphthylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1,4-Dichlorobenzene	2012-09	ug/L	< 1.00	**4.73**	**6.59**	< 1.00	< 1.00	< 1.00	< 1.00								
1,4-Dichlorobenzene	2013-03	ug/L	< 1	**3.04**	< 25.0		< 1.00	< 1	< 1								
1,4-Dichlorobenzene	2013-05	ug/L															
1,4-Dichlorobenzene	2013-09	ug/L	< 1.00	**5.55**	**5.95**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2014-03	ug/L	< 1.00	< 1.00	**8.42**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2014-09	ug/L	< 1	**6.86**	**5.37**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,4-Dichlorobenzene	2015-03	ug/L	< 1.00	**4.07**	**4.89**	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
1,4-Dichlorobenzene	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
1,4-Dichlorobenzene	2016-03	ug/L	< 1	**5.37**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,4-Dichlorobenzene	2016-06	ug/L															
1,4-Dichlorobenzene	2016-08	ug/L	< 1	**5.52**	**3.72**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,4-Dichlorobenzene	2017-03	ug/L	< 1	**4.67**	**3.6**	**0.354 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,4-Dichlorobenzene	2017-08	ug/L	< 1	**3.62**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
1,4-Dichlorobenzene	2017-11	ug/L														< 1	< 1
1,4-Dichlorobenzene	2018-03	ug/L	< 1	**3.3**	**2.17**	**0.272 J**	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2018-06	ug/L														< 1	< 1
1,4-Dichlorobenzene	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
1,4-Dichlorobenzene	2018-09	ug/L													< 1	< 1	< 1
1,4-Dichlorobenzene	2018-11	ug/L														< 1	< 1
1,4-Dichlorobenzene	2019-03	ug/L	< 1	**3.11**	< 1	**0.58 J**	< 1	**0.263 J**	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2019-08	ug/L	< 1	**4.58**	**3.97**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2020-03	ug/L	< 1	**4.12**		**0.242 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
1,4-Dichlorobenzene	2020-04	ug/L			**2.48**									< 1			
1,4-Dichlorobenzene	2020-08	ug/L	< 1	**4.03**	**3.25**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,4-Dichlorobenzene	2021-03	ug/L		**2.48**			< 1			< 1							
1,4-Dichlorobenzene	2021-08	ug/L	< 1	**3.56**	**1.97**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	**0.344 J**		< 1
1,4-Dichlorobenzene	2022-03	ug/L		**1.27**			< 1			< 1							
1,4-Dichlorobenzene	2022-08	ug/L	< 1	**2.77**	**3.03**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,4-Dichlorobenzene	2023-01	ug/L															
1,4-Dichlorobenzene	2023-03	ug/L		**2.32**			< 1			< 1							
1,4-Dichlorobenzene	2023-08	ug/L	< 1	**3.42**	**2.17**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,4-Dichlorobenzene	2024-03	ug/L		**2.94**			< 1			< 1							
1,4-Dichlorobenzene	2024-08	ug/L	< 1	**2.47**	**3.69**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
1,4-Naphthoquinone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
1,4-Naphthoquinone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1,4-Naphthoquinone	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
1,4-Naphthoquinone	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,4-Naphthoquinone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1,4-Naphthoquinone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
1,4-Naphthoquinone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
1,4-Naphthoquinone	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
1,4-Naphthoquinone	2015-10	ug/L	< 11.8		< 10.3					< 11							
1,4-Naphthoquinone	2016-03	ug/L					< 10.9			< 11.2							
1,4-Naphthoquinone	2016-06	ug/L															
1,4-Naphthoquinone	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
1,4-Naphthoquinone	2023-01	ug/L															
1,4-Naphthoquinone	2023-03	ug/L					< 10			< 10							
1-Naphthylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
1-Naphthylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
1-Naphthylamine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
1-Naphthylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1-Naphthylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
1-Naphthylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
1-Naphthylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
1-Naphthylamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
1-Naphthylamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
1-Naphthylamine	2016-03	ug/L			< 11.1	< 11.2												
1-Naphthylamine	2016-06	ug/L			< 11.4	< 11.4												
1-Naphthylamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
1-Naphthylamine	2023-01	ug/L															< 10.9	
1-Naphthylamine	2023-03	ug/L															< 10.4	
2,2-Dichloropropane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
2,2-Dichloropropane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
2,2-Dichloropropane	2009-07	ug/L	< 4	< 4.00		< 4		< 4	< 4	< 4	< 4	< 4	< 4.00	< 4.00	< 4	< 4	< 4	
2,2-Dichloropropane	2009-09	ug/L	< 4	< 4.00		< 4.00		< 4.00	< 4.00	< 20.0	< 4.00	< 4	< 4	< 4	< 4	< 4	< 4	
2,2-Dichloropropane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
2,2-Dichloropropane	2010-09	ug/L	< 4.00	< 4.00	< 4.00			< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	
2,2-Dichloropropane	2011-03	ug/L	< 4.00	< 4.00	< 4.00			< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	
2,2-Dichloropropane	2012-09	ug/L														< 4.00		
2,2-Dichloropropane	2015-09	ug/L	< 4	< 4			< 4	< 4			< 4	< 4	< 4	< 4		< 4	< 4	
2,2-Dichloropropane	2015-10	ug/L							< 4	< 4					< 4			< 4
2,2-Dichloropropane	2016-03	ug/L			< 4	< 4												
2,2-Dichloropropane	2016-06	ug/L			< 4	< 4												
2,2-Dichloropropane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	**2.09 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
2,2-Dichloropropane	2023-01	ug/L															< 4	
2,2-Dichloropropane	2023-03	ug/L															< 4	
2,2'-oxybis(1-Chloropropane)	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2,2'-oxybis(1-Chloropropane)	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,2'-oxybis(1-Chloropropane)	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2,2'-oxybis(1-Chloropropane)	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2,2'-oxybis(1-Chloropropane)	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2,2'-oxybis(1-Chloropropane)	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2,2'-oxybis(1-Chloropropane)	2011-03	ug/L	< 10.0 UJ	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2,2'-oxybis(1-Chloropropane)	2012-03	ug/L																
2,2'-oxybis(1-Chloropropane)	2012-09	ug/L																
2,2'-oxybis(1-Chloropropane)	2013-03	ug/L																
2,2'-oxybis(1-Chloropropane)	2014-03	ug/L																
2,2'-oxybis(1-Chloropropane)	2014-09	ug/L																
2,2'-oxybis(1-Chloropropane)	2015-03	ug/L																
2,2'-oxybis(1-Chloropropane)	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2,2'-oxybis(1-Chloropropane)	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2,2'-oxybis(1-Chloropropane)	2016-03	ug/L			< 11.1	< 11.2												
2,2'-oxybis(1-Chloropropane)	2016-06	ug/L			< 11.4	< 11.4												
2,2'-oxybis(1-Chloropropane)	2017-03	ug/L																
2,2'-oxybis(1-Chloropropane)	2017-08	ug/L																
2,2'-oxybis(1-Chloropropane)	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2,2'-oxybis(1-Chloropropane)	2022-08	ug/L																
2,2'-oxybis(1-Chloropropane)	2023-01	ug/L															< 10.9	
2,2'-oxybis(1-Chloropropane)	2023-03	ug/L															< 10.4	
2,3,4,6-Tetrachlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2,3,4,6-Tetrachlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,3,4,6-Tetrachlorophenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2,3,4,6-Tetrachlorophenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2,3,4,6-Tetrachlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2,3,4,6-Tetrachlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2,3,4,6-Tetrachlorophenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2,3,4,6-Tetrachlorophenol	2016-03	ug/L			< 11.1	< 11.2												
2,3,4,6-Tetrachlorophenol	2016-06	ug/L			< 11.4	< 11.4												
2,3,4,6-Tetrachlorophenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
1-Naphthylamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
1-Naphthylamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
1-Naphthylamine	2016-03	ug/L					< 10.9			< 11.2							
1-Naphthylamine	2016-06	ug/L															
1-Naphthylamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
1-Naphthylamine	2023-01	ug/L															
1-Naphthylamine	2023-03	ug/L					< 10			< 10							
2,2-Dichloropropane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4								
2,2-Dichloropropane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4								
2,2-Dichloropropane	2009-07	ug/L	< 4.00	< 4	< 4	< 4	< 4.00										
2,2-Dichloropropane	2009-09	ug/L	< 4.00	< 20.0	< 4.00	< 4.00	< 4.00										
2,2-Dichloropropane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
2,2-Dichloropropane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00										
2,2-Dichloropropane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00									
2,2-Dichloropropane	2012-09	ug/L				< 4.00											
2,2-Dichloropropane	2015-09	ug/L		< 4		< 4	< 4	< 4	< 4								
2,2-Dichloropropane	2015-10	ug/L	< 4		< 4					< 4							
2,2-Dichloropropane	2016-03	ug/L					< 4			< 4							
2,2-Dichloropropane	2016-06	ug/L															
2,2-Dichloropropane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4							
2,2-Dichloropropane	2023-01	ug/L															
2,2-Dichloropropane	2023-03	ug/L					< 4			< 4							
2,2'-oxybis(1-Chloropropane)	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2,2'-oxybis(1-Chloropropane)	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2,2'-oxybis(1-Chloropropane)	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2,2'-oxybis(1-Chloropropane)	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,2'-oxybis(1-Chloropropane)	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,2'-oxybis(1-Chloropropane)	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2,2'-oxybis(1-Chloropropane)	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2,2'-oxybis(1-Chloropropane)	2012-03	ug/L					< 10.0										
2,2'-oxybis(1-Chloropropane)	2012-09	ug/L					< 10.0										
2,2'-oxybis(1-Chloropropane)	2013-03	ug/L					< 11.8										
2,2'-oxybis(1-Chloropropane)	2014-03	ug/L					< 11.2										
2,2'-oxybis(1-Chloropropane)	2014-09	ug/L					< 11										
2,2'-oxybis(1-Chloropropane)	2015-03	ug/L					< 11										
2,2'-oxybis(1-Chloropropane)	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2,2'-oxybis(1-Chloropropane)	2015-10	ug/L	< 11.8		< 10.3					< 11							
2,2'-oxybis(1-Chloropropane)	2016-03	ug/L					< 10.9			< 11.2							
2,2'-oxybis(1-Chloropropane)	2016-06	ug/L															
2,2'-oxybis(1-Chloropropane)	2017-03	ug/L					< 10.5			< 10.9							
2,2'-oxybis(1-Chloropropane)	2017-08	ug/L					< 10.6			< 10.4							
2,2'-oxybis(1-Chloropropane)	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2,2'-oxybis(1-Chloropropane)	2022-08	ug/L					< 10.4			< 10							
2,2'-oxybis(1-Chloropropane)	2023-01	ug/L															
2,2'-oxybis(1-Chloropropane)	2023-03	ug/L					< 10			< 10							
2,3,4,6-Tetrachlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2,3,4,6-Tetrachlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2,3,4,6-Tetrachlorophenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2,3,4,6-Tetrachlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,3,4,6-Tetrachlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,3,4,6-Tetrachlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2,3,4,6-Tetrachlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2,3,4,6-Tetrachlorophenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2,3,4,6-Tetrachlorophenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
2,3,4,6-Tetrachlorophenol	2016-03	ug/L					< 10.9			< 11.2							
2,3,4,6-Tetrachlorophenol	2016-06	ug/L															
2,3,4,6-Tetrachlorophenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
2,3,4,6-Tetrachlorophenol	2023-01	ug/L															< 10.9	
2,3,4,6-Tetrachlorophenol	2023-03	ug/L															< 10.4	
2,4,5-T	2008-08	ug/L	< 0.1			< 0.11	< 0.11	< 0.11	< 0.11	< 0.1	< 0.11	< 0.52	< 0.1	< 0.1	< 0.1	< 0.1		< 0.1
2,4,5-T	2008-09	ug/L		< 0.1	< 0.1												< 0.1	
2,4,5-T	2009-03	ug/L	< 0.21	< 0.22	< 0.2	< 0.21	< 0.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.22	< 0.21	< 0.22	< 0.2	< 0.23	< 0.21	< 0.21
2,4,5-T	2009-07	ug/L					< 0.22			< 0.21	< 0.22	< 0.21	< 0.21	< 0.20				
2,4,5-T	2009-09	ug/L					< 0.22			< 0.21	< 0.21	< 0.2	< 0.2	< 0.2				
2,4,5-T	2010-03	ug/L					< 0.50			< 0.54	< 0.53	< 0.56	< 0.53	< 0.54				
2,4,5-T	2010-09	ug/L	< 0.51	< 0.52	< 0.53			< 0.52	< 0.52	< 0.52	< 0.53	< 0.53		< 0.53	< 0.52	< 0.54	< 0.62	
2,4,5-T	2011-03	ug/L								< 0.53	< 0.52	< 0.53	< 0.51					
2,4,5-T	2015-09	ug/L	< 1.24	< 1.19			< 1.15	< 1.23			< 1.04	< 1.2	< 1.2	< 1.23		< 1.23	**0.723 J**	
2,4,5-T	2015-10	ug/L							< 1.2	< 1.09					< 1.25			< 1.23
2,4,5-T	2016-03	ug/L			< 1.16	< 1.15												
2,4,5-T	2016-06	ug/L			< 1.24	< 1.19												
2,4,5-T	2019-08	ug/L					< 1.19											
2,4,5-T	2020-08	ug/L	< 0.151	< 0.153	< 0.149	< 0.154	< 0.158	< 0.143	< 0.153	< 0.149	< 0.147	< 0.145	< 0.15	< 0.147	< 0.149	< 0.162	< 0.161	< 0.151
2,4,5-T	2023-01	ug/L															< 1.15	
2,4,5-T	2023-03	ug/L															< 0.5	
2,4,5-TP (Silvex)	2008-08	ug/L	< 0.1			< 0.11	< 0.11	< 0.11	< 0.11	< 0.1	< 0.11	< 0.52	< 0.1	**0.11**	< 0.1	< 0.1		< 0.1
2,4,5-TP (Silvex)	2008-09	ug/L		< 0.1	< 0.1												< 0.1	
2,4,5-TP (Silvex)	2009-03	ug/L	< 0.21	< 0.22	< 0.2	< 0.21	**0.21**	< 0.21	< 0.21	**0.65**	**0.23**	**0.25**	**0.11 J**	< 0.22	< 0.2	< 0.23	< 0.21	< 0.21
2,4,5-TP (Silvex)	2009-07	ug/L					< 0.22			**0.52**	< 0.22	< 0.21	< 0.21	< 0.20				
2,4,5-TP (Silvex)	2009-09	ug/L					< 0.22			**0.33**	< 0.21	< 0.2	< 0.2	< 0.2				
2,4,5-TP (Silvex)	2010-03	ug/L					< 0.50			**0.69**	< 0.53	< 0.56	< 0.53	< 0.54				
2,4,5-TP (Silvex)	2010-09	ug/L	< 0.51	< 0.52	< 0.53			< 0.52	< 0.52	< 0.52	< 0.53	< 0.53		< 0.53	< 0.52	< 0.54	< 0.62	
2,4,5-TP (Silvex)	2011-03	ug/L								**0.37 J**	< 0.52	< 0.53	< 0.51					
2,4,5-TP (Silvex)	2011-09	ug/L								< 1.0	< 1.1	< 1.0	< 1.1	< 1.1				
2,4,5-TP (Silvex)	2012-03	ug/L					< 1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
2,4,5-TP (Silvex)	2012-09	ug/L					< 1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
2,4,5-TP (Silvex)	2013-03	ug/L					< 1.09			< 1.05	< 1.06	< 1.11	< 1.1	< 1.15				
2,4,5-TP (Silvex)	2013-09	ug/L					< 1.11			< 1.14	< 1.11	< 1.05	< 1.10	< 1.22				
2,4,5-TP (Silvex)	2014-03	ug/L					< 1.09			< 1.08	**0.396 J**	< 1.09		< 1.04				
2,4,5-TP (Silvex)	2014-09	ug/L					< 1.04			< 1.06	< 1.04	< 1.07		< 1.04				
2,4,5-TP (Silvex)	2015-03	ug/L					< 1.15			< 1.12	< 1.19	< 1.15		< 1.13				
2,4,5-TP (Silvex)	2015-09	ug/L	< 1.24	< 1.19			< 1.15	< 1.23			< 1.04	< 1.2	< 1.2	< 1.23		< 1.23	< 1.21	
2,4,5-TP (Silvex)	2015-10	ug/L							< 1.2	< 1.09					< 1.25			< 1.23
2,4,5-TP (Silvex)	2016-03	ug/L			< 1.16	< 1.15	< 1.12			< 1.12	< 0.981	< 1.06		< 1.09				
2,4,5-TP (Silvex)	2016-06	ug/L			< 1.24	< 1.19												
2,4,5-TP (Silvex)	2016-08	ug/L					< 1.16			< 1.01	< 1.2	< 1.21		< 1.16				
2,4,5-TP (Silvex)	2017-03	ug/L					< 1.11			< 1.2	< 1.17	< 1.07		< 1.14				
2,4,5-TP (Silvex)	2017-08	ug/L					< 1.19			< 1.08	< 1.2	< 1.12		< 1.2				
2,4,5-TP (Silvex)	2018-03	ug/L					< 1.14			< 1.21	< 1.07	< 1.1		< 1.2				
2,4,5-TP (Silvex)	2018-08	ug/L								< 1.12	< 1.16	< 1.2						
2,4,5-TP (Silvex)	2018-09	ug/L					< 1.21							< 1.16				
2,4,5-TP (Silvex)	2019-03	ug/L					< 1.04			< 1.1	< 1.21	< 1.21		< 1.16				
2,4,5-TP (Silvex)	2019-08	ug/L					< 1.19			**0.363 J**	< 1.26	< 1.29		< 1.15				
2,4,5-TP (Silvex)	2020-03	ug/L								< 1.2	< 1.05	< 1.24		< 1.25				
2,4,5-TP (Silvex)	2020-04	ug/L					< 1.18											
2,4,5-TP (Silvex)	2020-08	ug/L	< 0.151	< 0.153	< 0.149	< 0.154	< 0.158	< 0.143	< 0.153	< 0.149	< 0.147	< 0.145	< 0.15	< 0.147	< 0.149	< 0.162	**0.0966 J**	< 0.151
2,4,5-TP (Silvex)	2021-03	ug/L								< 0.145	< 0.147							
2,4,5-TP (Silvex)	2021-08	ug/L					< 1.14			< 1.09	< 1.14	< 1.16		**0.387 J**				
2,4,5-TP (Silvex)	2022-03	ug/L								< 1.11	< 1.1	< 1.06						
2,4,5-TP (Silvex)	2022-08	ug/L					< 0.5			< 1.13	< 0.5	< 0.5		< 1.12				
2,4,5-TP (Silvex)	2023-01	ug/L															< 1.15	
2,4,5-TP (Silvex)	2023-03	ug/L								< 0.5	< 0.5	< 0.5					< 0.5	
2,4,5-TP (Silvex)	2023-08	ug/L					< 1.01			< 1.09	< 1.16	< 1.01		< 1.14				
2,4,5-TP (Silvex)	2024-03	ug/L								< 0.881	< 0.911	< 0.887						

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
2,3,4,6-Tetrachlorophenol	2023-01	ug/L															
2,3,4,6-Tetrachlorophenol	2023-03	ug/L					< 10			< 10							
2,4,5-T	2008-08	ug/L		< 0.1	< 1	< 0.11											
2,4,5-T	2008-09	ug/L	< 0.1				< 0.099	< 0.1	< 0.1								
2,4,5-T	2009-03	ug/L	< 0.21	< 0.22	< 0.22	< 0.21	< 0.2	< 0.21	< 0.21								
2,4,5-T	2009-07	ug/L		< 0.22			< 0.21										
2,4,5-T	2009-09	ug/L		< 0.22			< 0.20										
2,4,5-T	2010-03	ug/L		< 0.50			< 0.53										
2,4,5-T	2010-09	ug/L	< 0.52	< 0.51	< 0.53	< 0.53	< 0.53										
2,4,5-T	2011-03	ug/L		< 0.53			< 0.50										
2,4,5-T	2015-09	ug/L		< 1.08		< 1.22	< 1.09	< 1.12	< 1.09								
2,4,5-T	2015-10	ug/L	< 1.26		< 1.14					< 1.21							
2,4,5-T	2016-03	ug/L					< 1.1			< 0.944							
2,4,5-T	2016-06	ug/L															
2,4,5-T	2019-08	ug/L		< 1.27													
2,4,5-T	2020-08	ug/L	< 0.167	< 0.149	< 0.15	< 0.168	< 0.171	< 0.153	< 0.144	< 0.14							
2,4,5-T	2023-01	ug/L															
2,4,5-T	2023-03	ug/L					< 0.5			< 0.5							
2,4,5-TP (Silvex)	2008-08	ug/L		< 0.1	< 1	< 0.11											
2,4,5-TP (Silvex)	2008-09	ug/L	< 0.1				< 0.099	< 0.1	< 0.1								
2,4,5-TP (Silvex)	2009-03	ug/L	< 0.21	**0.34**	< 0.22	< 0.21	< 0.2	< 0.21	< 0.21								
2,4,5-TP (Silvex)	2009-07	ug/L		< 0.22			< 0.21										
2,4,5-TP (Silvex)	2009-09	ug/L		< 0.22			< 0.20										
2,4,5-TP (Silvex)	2010-03	ug/L		< 0.50			< 0.53										
2,4,5-TP (Silvex)	2010-09	ug/L	< 0.52	< 0.51	< 0.53	< 0.53	< 0.53										
2,4,5-TP (Silvex)	2011-03	ug/L		< 0.53			< 0.50										
2,4,5-TP (Silvex)	2011-09	ug/L		< 1.0			< 1.1										
2,4,5-TP (Silvex)	2012-03	ug/L		< 1.0			< 1.0										
2,4,5-TP (Silvex)	2012-09	ug/L		< 1.0													
2,4,5-TP (Silvex)	2013-03	ug/L		< 1.09			< 1.07										
2,4,5-TP (Silvex)	2013-09	ug/L		< 1.03													
2,4,5-TP (Silvex)	2014-03	ug/L		< 1.04			< 1.07										
2,4,5-TP (Silvex)	2014-09	ug/L		< 1.06			< 1.07										
2,4,5-TP (Silvex)	2015-03	ug/L		< 1.10			< 1.17										
2,4,5-TP (Silvex)	2015-09	ug/L		< 1.08		< 1.22	< 1.09	< 1.12	< 1.09								
2,4,5-TP (Silvex)	2015-10	ug/L	< 1.26		< 1.14					< 1.21							
2,4,5-TP (Silvex)	2016-03	ug/L		< 1.06			< 1.1			< 0.944							
2,4,5-TP (Silvex)	2016-06	ug/L															
2,4,5-TP (Silvex)	2016-08	ug/L		< 1.2			< 1.19			< 1.13							
2,4,5-TP (Silvex)	2017-03	ug/L		< 1.25			< 1.25			< 1.13							
2,4,5-TP (Silvex)	2017-08	ug/L		< 1.1			< 1.21			< 1.1							
2,4,5-TP (Silvex)	2018-03	ug/L		< 1.15			< 1.42			< 1.18							
2,4,5-TP (Silvex)	2018-08	ug/L		< 1.25			< 1.39			< 1.17							
2,4,5-TP (Silvex)	2018-09	ug/L															
2,4,5-TP (Silvex)	2019-03	ug/L		< 1.19			< 1.36			< 1.13							
2,4,5-TP (Silvex)	2019-08	ug/L		< 1.27			< 1.19			< 1.2							
2,4,5-TP (Silvex)	2020-03	ug/L		< 1.17			< 1.45			< 1.27							
2,4,5-TP (Silvex)	2020-04	ug/L															
2,4,5-TP (Silvex)	2020-08	ug/L	< 0.167	< 0.149	< 0.15	< 0.168	< 0.171	< 0.153	< 0.144	< 0.14							
2,4,5-TP (Silvex)	2021-03	ug/L		< 0.161			< 0.16 J			< 0.152							
2,4,5-TP (Silvex)	2021-08	ug/L		< 1.12			< 1.29			< 1.17							
2,4,5-TP (Silvex)	2022-03	ug/L		< 1.12 J			< 1.1 J			< 1.02 J							
2,4,5-TP (Silvex)	2022-08	ug/L		< 0.5			< 1.16			< 1.11							
2,4,5-TP (Silvex)	2023-01	ug/L															
2,4,5-TP (Silvex)	2023-03	ug/L		< 0.5			< 0.5			< 0.5							
2,4,5-TP (Silvex)	2023-08	ug/L		< 0.979			< 1.11			< 1.01							
2,4,5-TP (Silvex)	2024-03	ug/L		< 0.889			< 0.863			< 0.918							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
2,4,5-TP (Silvex)	2024-08	ug/L					< 1.06			< 1.12	< 1.07	< 1.1		< 1.01				
2,4,5-Trichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2,4,5-Trichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2,4,5-Trichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2,4,5-Trichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2,4,5-Trichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2,4,5-Trichlorophenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2,4,5-Trichlorophenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2,4,5-Trichlorophenol	2016-03	ug/L			< 11.1	< 11.2												
2,4,5-Trichlorophenol	2016-06	ug/L			< 11.4	< 11.4												
2,4,5-Trichlorophenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2,4,5-Trichlorophenol	2023-01	ug/L															< 10.9	
2,4,5-Trichlorophenol	2023-03	ug/L															< 10.4	
2,4,6-Trichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2,4,6-Trichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,6-Trichlorophenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2,4,6-Trichlorophenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2,4,6-Trichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2,4,6-Trichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2,4,6-Trichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2,4,6-Trichlorophenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2,4,6-Trichlorophenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2,4,6-Trichlorophenol	2016-03	ug/L			< 11.1	< 11.2												
2,4,6-Trichlorophenol	2016-06	ug/L			< 11.4	< 11.4												
2,4,6-Trichlorophenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2,4,6-Trichlorophenol	2023-01	ug/L															< 10.9	
2,4,6-Trichlorophenol	2023-03	ug/L															< 10.4	
2,4-D	2008-08	ug/L	< 1			< 1.1	< 1.1	< 1.1	< 1.1	< 1	< 1.1	< 5.2	< 1	< 1	< 1	< 1		< 1
2,4-D	2008-09	ug/L		< 1	< 1												< 1	
2,4-D	2009-03	ug/L	< 1.1	< 1.1	< 1	< 1.1	< 0.99	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1	< 1.1	< 1.1	< 1.1
2,4-D	2009-07	ug/L					< 1.1			< 1	< 1.1	< 1	< 1.1	< 1.0				
2,4-D	2009-09	ug/L					< 1.1			< 1.0	< 1.0	< 1	< 0.99	< 0.99				
2,4-D	2010-03	ug/L					< 1.0			< 1.1	< 1.1	< 1.1	< 1.1	< 1.1				
2,4-D	2010-09	ug/L	< 1.0	< 1.0	< 1.1			< 1.0	< 1.0	< 1.0	< 1.1	< 1.1		< 1.1	< 1.0	< 1.1	< 1.2	
2,4-D	2011-03	ug/L								< 1.1	< 1.0	< 1.1	< 1.0					
2,4-D	2015-09	ug/L	< 1.24	< 1.19			< 1.15	< 1.23			< 1.04	< 1.2	< 1.2	< 1.23		< 1.23	< 1.21	
2,4-D	2015-10	ug/L							< 1.2	< 1.09					< 1.25			< 1.23
2,4-D	2016-03	ug/L			< 1.16	< 1.15												
2,4-D	2016-06	ug/L			< 1.24	< 1.19												
2,4-D	2019-08	ug/L					< 1.19											
2,4-D	2020-08	ug/L	< 0.302	< 0.307	< 0.298	< 0.308	< 0.316	< 0.287	< 0.306	< 0.297	< 0.293	< 0.29	< 0.299	< 0.294	< 0.297	**0.488**	< 0.323	< 0.302
2,4-D	2020-12	ug/L														< 0.0204		
2,4-D	2020-12	ug/L														< 0.275		
2,4-D	2021-03	ug/L														< 0.297 J		
2,4-D	2021-08	ug/L														< 1.08		
2,4-D	2022-08	ug/L														< 2		
2,4-D	2023-01	ug/L															< 1.15	
2,4-D	2023-03	ug/L															< 2	
2,4-D	2023-08	ug/L														< 1.06		
2,4-D	2024-08	ug/L														< 1.11		
2,4-Dichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2,4-Dichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dichlorophenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2,4-Dichlorophenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2,4-Dichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		**0.191 J**			< 10.0		< 10.0	**0.219 J**	< 10.0	< 11.2

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
2,4,5-TP (Silvex)	2024-08	ug/L		< 0.993			< 1.02			< 1.04							
2,4,5-Trichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2,4,5-Trichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2,4,5-Trichlorophenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2,4,5-Trichlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,4,5-Trichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,4,5-Trichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2,4,5-Trichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2,4,5-Trichlorophenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2,4,5-Trichlorophenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
2,4,5-Trichlorophenol	2016-03	ug/L					< 10.9			< 11.2							
2,4,5-Trichlorophenol	2016-06	ug/L															
2,4,5-Trichlorophenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2,4,5-Trichlorophenol	2023-01	ug/L															
2,4,5-Trichlorophenol	2023-03	ug/L					< 10			< 10							
2,4,6-Trichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2,4,6-Trichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2,4,6-Trichlorophenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2,4,6-Trichlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,4,6-Trichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,4,6-Trichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2,4,6-Trichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2,4,6-Trichlorophenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2,4,6-Trichlorophenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
2,4,6-Trichlorophenol	2016-03	ug/L					< 10.9			< 11.2							
2,4,6-Trichlorophenol	2016-06	ug/L															
2,4,6-Trichlorophenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2,4,6-Trichlorophenol	2023-01	ug/L															
2,4,6-Trichlorophenol	2023-03	ug/L					< 10			< 10							
2,4-D	2008-08	ug/L		< 1	< 10	< 1.1											
2,4-D	2008-09	ug/L	< 1				< 0.99	< 1	< 1								
2,4-D	2009-03	ug/L	< 1	< 1.1	< 1.1	< 1.1	< 1	< 1.1	< 1								
2,4-D	2009-07	ug/L		< 1.1			< 1.1										
2,4-D	2009-09	ug/L		< 1.1			< 1.0										
2,4-D	2010-03	ug/L		< 1.0			< 1.1										
2,4-D	2010-09	ug/L	< 1.0	< 1.0	< 1.1	< 1.1	< 1.1										
2,4-D	2011-03	ug/L		< 1.1			< 1.0										
2,4-D	2015-09	ug/L		< 1.08		< 1.22	< 1.09	< 1.12	< 1.09								
2,4-D	2015-10	ug/L	< 1.26		< 1.14					< 1.21							
2,4-D	2016-03	ug/L					< 1.1			< 0.944							
2,4-D	2016-06	ug/L															
2,4-D	2019-08	ug/L		< 1.27													
2,4-D	2020-08	ug/L	< 0.334	< 0.298	< 0.301	< 0.335	< 0.342	< 0.306	< 0.288	< 0.281							
2,4-D	2020-12	ug/L															
2,4-D	2020-12	ug/L															
2,4-D	2021-03	ug/L					< 0.319 J			< 0.303							
2,4-D	2021-08	ug/L					< 1.29			< 1.17							
2,4-D	2022-08	ug/L					< 1.16			< 1.11							
2,4-D	2023-01	ug/L															
2,4-D	2023-03	ug/L					< 2			< 2							
2,4-D	2023-08	ug/L					< 1.11			< 1.01							
2,4-D	2024-08	ug/L					< 1.02			< 1.04							
2,4-Dichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2,4-Dichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2,4-Dichlorophenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2,4-Dichlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,4-Dichlorophenol	2010-03	ug/L	< 10.0	< 10.0	**0.169 J**	< 10.0	< 10.0	< 10.0	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
2,4-Dichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	**0.304 J**	< 10.0	< 10.0		< 10.0	< 10.0	**0.179 J**	< 10.0	
2,4-Dichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	**0.157 J**	< 10.0	
2,4-Dichlorophenol	2011-09	ug/L								**0.248 J**						< 10.0		
2,4-Dichlorophenol	2012-03	ug/L								< 10.0						< 10.0		
2,4-Dichlorophenol	2012-09	ug/L								**0.310 J**						**0.216 J**		
2,4-Dichlorophenol	2013-03	ug/L								**0.18 J**						**0.255 J**		
2,4-Dichlorophenol	2013-09	ug/L								**0.247 J**						< 11.2		
2,4-Dichlorophenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2,4-Dichlorophenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2,4-Dichlorophenol	2016-03	ug/L			< 11.1	< 11.2												
2,4-Dichlorophenol	2016-06	ug/L			< 11.4	< 11.4												
2,4-Dichlorophenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2,4-Dichlorophenol	2023-01	ug/L															< 10.9	
2,4-Dichlorophenol	2023-03	ug/L															< 10.4	
2,4-Dimethylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2,4-Dimethylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dimethylphenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2,4-Dimethylphenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2,4-Dimethylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2,4-Dimethylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2,4-Dimethylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2,4-Dimethylphenol	2011-09	ug/L																
2,4-Dimethylphenol	2012-03	ug/L																
2,4-Dimethylphenol	2012-09	ug/L																
2,4-Dimethylphenol	2013-03	ug/L																
2,4-Dimethylphenol	2013-09	ug/L																
2,4-Dimethylphenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2,4-Dimethylphenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2,4-Dimethylphenol	2016-03	ug/L			< 11.1	< 11.2												
2,4-Dimethylphenol	2016-06	ug/L			< 11.4	< 11.4												
2,4-Dimethylphenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2,4-Dimethylphenol	2023-01	ug/L															< 10.9	
2,4-Dimethylphenol	2023-03	ug/L															< 10.4	
2,4-Dinitrophenol	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20
2,4-Dinitrophenol	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
2,4-Dinitrophenol	2009-07	ug/L	< 20	< 20.0	< 20.0	< 20		< 20		< 20			< 20.0		< 20	< 20	< 20	< 20
2,4-Dinitrophenol	2009-09	ug/L	< 20	< 20.0	< 20.0	< 20.0		< 20.0		< 20.0			< 20		< 20	< 22.5	< 20	< 20
2,4-Dinitrophenol	2010-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0		< 20.0			< 20.0		< 20.0	< 20.0	< 20.0	< 22.5
2,4-Dinitrophenol	2010-09	ug/L	< 20.0	< 20.0	< 20.0			< 20.0	< 20.0	< 20.0	< 20.0	< 20.0		< 20.0	< 20.0	< 20.0	< 20.0	
2,4-Dinitrophenol	2011-03	ug/L	< 20.0	< 20.0	< 20.0			< 20.0		< 20.0	< 20.0	< 20.0	< 20.0		< 20.0	< 20.0	< 20.0	
2,4-Dinitrophenol	2015-09	ug/L	< 22.7	< 22.2			< 22.2	< 23.3			< 21.7	< 22.2	< 21.7	< 22.5		< 22.7	< 21.1	
2,4-Dinitrophenol	2015-10	ug/L							< 20.8	< 21.1					< 23.5			< 23.5
2,4-Dinitrophenol	2016-03	ug/L			< 22.2	< 22.5												
2,4-Dinitrophenol	2016-06	ug/L			< 22.7	< 22.7												
2,4-Dinitrophenol	2020-08	ug/L	< 23.5	< 23.3	< 24.4	< 23.5	< 23.5	< 23.5	< 23	< 21.7	< 22.7	< 23.5	< 23.3	< 22.2	< 23.8	< 23.3	< 23.8	< 23.3
2,4-Dinitrophenol	2023-01	ug/L															< 21.7	
2,4-Dinitrophenol	2023-03	ug/L															< 20.8	
2,4-Dinitrotoluene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2,4-Dinitrotoluene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2,4-Dinitrotoluene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2,4-Dinitrotoluene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2,4-Dinitrotoluene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2,4-Dinitrotoluene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2,4-Dinitrotoluene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2,4-Dinitrotoluene	2016-03	ug/L			< 11.1	< 11.2												

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
2,4-Dichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2,4-Dichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2,4-Dichlorophenol	2011-09	ug/L			< 10.0		< 10.0										
2,4-Dichlorophenol	2012-03	ug/L			< 10.0		< 10.0										
2,4-Dichlorophenol	2012-09	ug/L			< 10.0		< 10.0										
2,4-Dichlorophenol	2013-03	ug/L			< 10.6		< 11.8										
2,4-Dichlorophenol	2013-09	ug/L			< 11.0												
2,4-Dichlorophenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2,4-Dichlorophenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
2,4-Dichlorophenol	2016-03	ug/L					< 10.9			< 11.2							
2,4-Dichlorophenol	2016-06	ug/L															
2,4-Dichlorophenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2,4-Dichlorophenol	2023-01	ug/L															
2,4-Dichlorophenol	2023-03	ug/L					< 10			< 10							
2,4-Dimethylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2,4-Dimethylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2,4-Dimethylphenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2,4-Dimethylphenol	2009-09	ug/L	< 10.0	**0.489 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,4-Dimethylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,4-Dimethylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2,4-Dimethylphenol	2011-03	ug/L	< 10.0	**0.296 J**	< 10.0	< 10.0	< 10.0	< 10.0									
2,4-Dimethylphenol	2011-09	ug/L		**0.317 J**			< 10.0										
2,4-Dimethylphenol	2012-03	ug/L		< 10.0			< 10.0										
2,4-Dimethylphenol	2012-09	ug/L		< 10.0			< 10.0										
2,4-Dimethylphenol	2013-03	ug/L		< 10.5			< 11.8										
2,4-Dimethylphenol	2013-09	ug/L		**0.239 J**													
2,4-Dimethylphenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2,4-Dimethylphenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
2,4-Dimethylphenol	2016-03	ug/L					< 10.9			< 11.2							
2,4-Dimethylphenol	2016-06	ug/L															
2,4-Dimethylphenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2,4-Dimethylphenol	2023-01	ug/L															
2,4-Dimethylphenol	2023-03	ug/L					< 10			< 10							
2,4-Dinitrophenol	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20								
2,4-Dinitrophenol	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20								
2,4-Dinitrophenol	2009-07	ug/L	< 20.0	< 20	< 20	< 20	< 20.0	< 22.7	< 20.0								
2,4-Dinitrophenol	2009-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0								
2,4-Dinitrophenol	2010-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0								
2,4-Dinitrophenol	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0										
2,4-Dinitrophenol	2011-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0									
2,4-Dinitrophenol	2015-09	ug/L		< 22		< 22.5	< 23.3	< 22.5	< 22.5								
2,4-Dinitrophenol	2015-10	ug/L	< 23.5		< 20.6					< 22							
2,4-Dinitrophenol	2016-03	ug/L					< 21.7			< 22.5							
2,4-Dinitrophenol	2016-06	ug/L															
2,4-Dinitrophenol	2020-08	ug/L	< 23.8	< 23.5	< 21.1	< 22	< 27	< 23.5	< 22.2	< 22.2							
2,4-Dinitrophenol	2023-01	ug/L															
2,4-Dinitrophenol	2023-03	ug/L					< 20			< 20							
2,4-Dinitrotoluene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2,4-Dinitrotoluene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2,4-Dinitrotoluene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2,4-Dinitrotoluene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,4-Dinitrotoluene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,4-Dinitrotoluene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2,4-Dinitrotoluene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2,4-Dinitrotoluene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2,4-Dinitrotoluene	2015-10	ug/L	< 11.8		< 10.3					< 11							
2,4-Dinitrotoluene	2016-03	ug/L					< 10.9			< 11.2							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
2,4-Dinitrotoluene	2016-06	ug/L			< 11.4	< 11.4												
2,4-Dinitrotoluene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2,4-Dinitrotoluene	2023-01	ug/L															< 10.9	
2,4-Dinitrotoluene	2023-03	ug/L															< 10.4	
2,6-Dichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2,6-Dichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,6-Dichlorophenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2,6-Dichlorophenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2,6-Dichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2,6-Dichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2,6-Dichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2,6-Dichlorophenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2,6-Dichlorophenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2,6-Dichlorophenol	2016-03	ug/L			< 11.1	< 11.2												
2,6-Dichlorophenol	2016-06	ug/L			< 11.4	< 11.4												
2,6-Dichlorophenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2,6-Dichlorophenol	2023-01	ug/L															< 10.9	
2,6-Dichlorophenol	2023-03	ug/L															< 10.4	
2,6-Dinitrotoluene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2,6-Dinitrotoluene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,6-Dinitrotoluene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2,6-Dinitrotoluene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2,6-Dinitrotoluene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2,6-Dinitrotoluene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2,6-Dinitrotoluene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2,6-Dinitrotoluene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2,6-Dinitrotoluene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2,6-Dinitrotoluene	2016-03	ug/L			< 11.1	< 11.2												
2,6-Dinitrotoluene	2016-06	ug/L			< 11.4	< 11.4												
2,6-Dinitrotoluene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2,6-Dinitrotoluene	2023-01	ug/L															< 10.9	
2,6-Dinitrotoluene	2023-03	ug/L															< 10.4	
2-Acetylaminofluorene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2-Acetylaminofluorene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Acetylaminofluorene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2-Acetylaminofluorene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2-Acetylaminofluorene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2-Acetylaminofluorene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2-Acetylaminofluorene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2-Acetylaminofluorene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2-Acetylaminofluorene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2-Acetylaminofluorene	2016-03	ug/L			< 11.1	< 11.2												
2-Acetylaminofluorene	2016-06	ug/L			< 11.4	< 11.4												
2-Acetylaminofluorene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2-Acetylaminofluorene	2023-01	ug/L															< 10.9	
2-Acetylaminofluorene	2023-03	ug/L															< 10.4	
2-Butanone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**69**	< 10
2-Butanone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2009-07	ug/L	< 10	< 10.0		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
2-Butanone	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
2-Butanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2013-03	ug/L	< 10.0	< 10		< 10.0	< 10.0		< 10	< 10	< 10 J	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10 J

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
2,4-Dinitrotoluene	2016-06	ug/L															
2,4-Dinitrotoluene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2,4-Dinitrotoluene	2023-01	ug/L															
2,4-Dinitrotoluene	2023-03	ug/L					< 10			< 10							
2,6-Dichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2,6-Dichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2,6-Dichlorophenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2,6-Dichlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,6-Dichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,6-Dichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2,6-Dichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2,6-Dichlorophenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2,6-Dichlorophenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
2,6-Dichlorophenol	2016-03	ug/L					< 10.9			< 11.2							
2,6-Dichlorophenol	2016-06	ug/L															
2,6-Dichlorophenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2,6-Dichlorophenol	2023-01	ug/L															
2,6-Dichlorophenol	2023-03	ug/L					< 10			< 10							
2,6-Dinitrotoluene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2,6-Dinitrotoluene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2,6-Dinitrotoluene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2,6-Dinitrotoluene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,6-Dinitrotoluene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2,6-Dinitrotoluene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2,6-Dinitrotoluene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2,6-Dinitrotoluene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2,6-Dinitrotoluene	2015-10	ug/L	< 11.8		< 10.3					< 11							
2,6-Dinitrotoluene	2016-03	ug/L					< 10.9			< 11.2							
2,6-Dinitrotoluene	2016-06	ug/L															
2,6-Dinitrotoluene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2,6-Dinitrotoluene	2023-01	ug/L															
2,6-Dinitrotoluene	2023-03	ug/L					< 10			< 10							
2-Acetylaminofluorene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2-Acetylaminofluorene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Acetylaminofluorene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2-Acetylaminofluorene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Acetylaminofluorene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Acetylaminofluorene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2-Acetylaminofluorene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2-Acetylaminofluorene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2-Acetylaminofluorene	2015-10	ug/L	< 11.8		< 10.3					< 11							
2-Acetylaminofluorene	2016-03	ug/L					< 10.9			< 11.2							
2-Acetylaminofluorene	2016-06	ug/L															
2-Acetylaminofluorene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2-Acetylaminofluorene	2023-01	ug/L															
2-Acetylaminofluorene	2023-03	ug/L					< 10			< 10							
2-Butanone	2008-08	ug/L	**14.4**	< 10	< 10	< 10	< 10	< 10	< 10								
2-Butanone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Butanone	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
2-Butanone	2009-09	ug/L	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0										
2-Butanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Butanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Butanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Butanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Butanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Butanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Butanone	2013-03	ug/L	< 10	**9.42 J**	< 250		< 10.0	< 10	< 10								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
2-Butanone	2013-05	ug/L			< 10.0			< 10.0										
2-Butanone	2013-09	ug/L	< 10.0	< 10.0	**2.30 J**	< 10.0 J	< 10.0 J	**1.80 J**	**9.77 J**	**3.44 J**	**4.44 J**	**1.20 J**	**0.855 J**	**3.31 J**	< 10.0	**1.71 J**	< 10.0	< 10.0
2-Butanone	2013-11	ug/L																
2-Butanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2014-06	ug/L																
2-Butanone	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**1.43 J**	**4.33 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2015-03	ug/L	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 J	< 10.0 J	**2.46 J**	< 10	< 10.0	**1.44 J**	< 10	< 10	< 10	< 10.0
2-Butanone	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			**4.79 J**	< 10	< 10	**1.61 J**		< 10	< 10	
2-Butanone	2015-10	ug/L			< 10				**4.79 J**	< 10					< 10			< 10
2-Butanone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**6.29 J**	< 10	< 10	**2.74 J**	< 10	< 10	< 10	< 10
2-Butanone	2016-06	ug/L			< 10	< 10												
2-Butanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	**12.3**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	**9.85 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	**5.2 J**	**1.89 J**	**1.56 J**	< 10	< 10	**2.74 J**	< 10	< 10	< 10	< 10
2-Butanone	2017-11	ug/L																
2-Butanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	**2.71 J**	**3.08 J**	**2.43 J**	< 10	< 10	**1.19 J**	< 10	**2.41 J**	< 10	< 10
2-Butanone	2018-06	ug/L																
2-Butanone	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10	**3.61 J**	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Butanone	2018-09	ug/L					< 10						**2.27 J**	< 10				
2-Butanone	2018-11	ug/L																
2-Butanone	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	**9.62 J**	< 10	**6.25 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**3.76 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2020-03	ug/L	< 10	< 10	< 10			< 10		< 10	< 10	< 10	< 10	**5.84 J**	< 10	< 10	< 10	< 10
2-Butanone	2020-04	ug/L				< 10	< 10		< 10									
2-Butanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	**9.21 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2021-03	ug/L							< 10	< 10	< 10	< 10						
2-Butanone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2022-03	ug/L							< 10	< 10	< 10	< 10						
2-Butanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	**2.71 J**	< 10	< 10	< 10	< 10
2-Butanone	2023-01	ug/L															< 10	
2-Butanone	2023-03	ug/L							< 10	< 10	< 10	< 10					< 10	
2-Butanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2024-03	ug/L							< 10	< 10	< 10	< 10						
2-Butanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloronaphthalene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2-Chloronaphthalene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloronaphthalene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2-Chloronaphthalene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2-Chloronaphthalene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2-Chloronaphthalene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2-Chloronaphthalene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2-Chloronaphthalene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2-Chloronaphthalene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2-Chloronaphthalene	2016-03	ug/L			< 11.1	< 11.2												
2-Chloronaphthalene	2016-06	ug/L			< 11.4	< 11.4												
2-Chloronaphthalene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2-Chloronaphthalene	2023-01	ug/L															< 10.9	
2-Chloronaphthalene	2023-03	ug/L															< 10.4	
2-Chlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2-Chlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorophenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2-Chlorophenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	**0.696 J**	< 10	< 10
2-Chlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	**0.536 J**	< 10.0	< 11.2
2-Chlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	**0.757 J**	< 10.0	
2-Chlorophenol	2011-03	ug/L	**0.157 J**	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	**0.578 J**	< 10.0	
2-Chlorophenol	2011-09	ug/L	**0.219 J**													**0.452 J**		
2-Chlorophenol	2012-03	ug/L	< 10.0													**0.613 J**		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
2-Butanone	2013-05	ug/L															
2-Butanone	2013-09	ug/L	< 10.0	< 10.0 J	**178**	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2013-11	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2014-06	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2014-09	ug/L	< 10	< 10	**1.72 J**	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
2-Butanone	2015-03	ug/L	< 10.0	< 10.0 J	< 10.0 J	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
2-Butanone	2015-10	ug/L	< 10		< 10					< 10	< 10	< 10	< 10	< 10	< 10		
2-Butanone	2016-03	ug/L	< 10	**1.26 J**	**1.36 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
2-Butanone	2016-06	ug/L															
2-Butanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
2-Butanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
2-Butanone	2017-08	ug/L	< 10	**2.7 J**	**2.52 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
2-Butanone	2017-11	ug/L														< 10	< 10
2-Butanone	2018-03	ug/L	< 10	**2.79 J**	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2018-06	ug/L														< 10	< 10
2-Butanone	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10			
2-Butanone	2018-09	ug/L													< 10	< 10	< 10
2-Butanone	2018-11	ug/L														< 10	< 10
2-Butanone	2019-03	ug/L	< 10	< 10	**4.17 J**	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2019-08	ug/L	< 10	< 10	**3.73 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2020-03	ug/L	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
2-Butanone	2020-04	ug/L			< 10									< 10			
2-Butanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Butanone	2021-03	ug/L		< 10			< 10			< 10							
2-Butanone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Butanone	2022-03	ug/L		< 10			< 10			< 10							
2-Butanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Butanone	2023-01	ug/L															
2-Butanone	2023-03	ug/L		**2.38 J**			< 10			< 10							
2-Butanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Butanone	2024-03	ug/L		< 10			< 10			< 10							
2-Butanone	2024-08	ug/L	< 10	< 10	**2.2 J**	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Chloronaphthalene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2-Chloronaphthalene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Chloronaphthalene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2-Chloronaphthalene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Chloronaphthalene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Chloronaphthalene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2-Chloronaphthalene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2-Chloronaphthalene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2-Chloronaphthalene	2015-10	ug/L	< 11.8		< 10.3					< 11							
2-Chloronaphthalene	2016-03	ug/L					< 10.9			< 11.2							
2-Chloronaphthalene	2016-06	ug/L															
2-Chloronaphthalene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2-Chloronaphthalene	2023-01	ug/L															
2-Chloronaphthalene	2023-03	ug/L					< 10			< 10							
2-Chlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2-Chlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Chlorophenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2-Chlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Chlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Chlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2-Chlorophenol	2011-03	ug/L	< 10.0	**0.153 J**	< 10.0	< 10.0	< 10.0	< 10.0									
2-Chlorophenol	2011-09	ug/L		**0.164 J**			< 10.0										
2-Chlorophenol	2012-03	ug/L		**0.157 J**			< 10.0										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
2-Chlorophenol	2012-09	ug/L	< 10.0													**0.500 J**		
2-Chlorophenol	2013-03	ug/L	< 10.9													**0.712 J**		
2-Chlorophenol	2013-09	ug/L	**0.225 J**		< 10.2											**0.398 J**		
2-Chlorophenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		**0.216 J**	< 10.5	
2-Chlorophenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2-Chlorophenol	2016-03	ug/L			< 11.1	< 11.2												
2-Chlorophenol	2016-06	ug/L			< 11.4	< 11.4												
2-Chlorophenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2-Chlorophenol	2023-01	ug/L															< 10.9	
2-Chlorophenol	2023-03	ug/L															< 10.4	
2-Hexanone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2009-07	ug/L	< 10	< 10.0		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
2-Hexanone	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
2-Hexanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2013-03	ug/L	< 10.0	< 10		< 10.0	< 10.0		< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10
2-Hexanone	2013-05	ug/L			< 10.0			< 10.0										
2-Hexanone	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2013-11	ug/L																
2-Hexanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2014-06	ug/L																
2-Hexanone	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2015-03	ug/L	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2-Hexanone	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
2-Hexanone	2015-10	ug/L			< 10				< 10	< 10					< 10			< 10
2-Hexanone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2016-06	ug/L			< 10	< 10												
2-Hexanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2017-11	ug/L																
2-Hexanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2018-06	ug/L																
2-Hexanone	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Hexanone	2018-09	ug/L					< 10						< 10	< 10				
2-Hexanone	2018-11	ug/L																
2-Hexanone	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2020-03	ug/L	< 10	< 10	< 10			< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2020-04	ug/L				< 10	< 10		< 10									
2-Hexanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2021-03	ug/L							< 10	< 10	< 10	< 10						
2-Hexanone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2022-03	ug/L							< 10	< 10	< 10	< 10						
2-Hexanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2023-01	ug/L															< 10	
2-Hexanone	2023-03	ug/L							< 10	< 10	< 10	< 10					< 10	
2-Hexanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2024-03	ug/L							< 10	< 10	< 10	< 10						
2-Hexanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylnaphthalene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2-Methylnaphthalene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
2-Chlorophenol	2012-09	ug/L		< 10.0			< 10.0										
2-Chlorophenol	2013-03	ug/L		< 10.5			< 11.8										
2-Chlorophenol	2013-09	ug/L		< 10.1													
2-Chlorophenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2-Chlorophenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
2-Chlorophenol	2016-03	ug/L					< 10.9			< 11.2							
2-Chlorophenol	2016-06	ug/L															
2-Chlorophenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2-Chlorophenol	2023-01	ug/L															
2-Chlorophenol	2023-03	ug/L					< 10			< 10							
2-Hexanone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Hexanone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Hexanone	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
2-Hexanone	2009-09	ug/L	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0										
2-Hexanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Hexanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Hexanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Hexanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Hexanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Hexanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Hexanone	2013-03	ug/L	< 10	< 10	< 250		< 10.0	< 10	< 10								
2-Hexanone	2013-05	ug/L															
2-Hexanone	2013-09	ug/L	< 10.0	< 10.0	**1.25 J**	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Hexanone	2013-11	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Hexanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Hexanone	2014-06	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Hexanone	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
2-Hexanone	2015-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Hexanone	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
2-Hexanone	2015-10	ug/L	< 10		< 10					< 10	< 10	< 10	< 10	< 10	< 10		
2-Hexanone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
2-Hexanone	2016-06	ug/L															
2-Hexanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
2-Hexanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
2-Hexanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
2-Hexanone	2017-11	ug/L														< 10	< 10
2-Hexanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2018-06	ug/L														< 10	< 10
2-Hexanone	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10			
2-Hexanone	2018-09	ug/L													< 10	< 10	< 10
2-Hexanone	2018-11	ug/L														< 10	< 10
2-Hexanone	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2020-03	ug/L	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
2-Hexanone	2020-04	ug/L			< 10									< 10			
2-Hexanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Hexanone	2021-03	ug/L		< 10			< 10			< 10							
2-Hexanone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Hexanone	2022-03	ug/L		< 10			< 10			< 10							
2-Hexanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Hexanone	2023-01	ug/L															
2-Hexanone	2023-03	ug/L		< 10			< 10			< 10							
2-Hexanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Hexanone	2024-03	ug/L		< 10			< 10			< 10							
2-Hexanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
2-Methylnaphthalene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2-Methylnaphthalene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
2-Methylnaphthalene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2-Methylnaphthalene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2-Methylnaphthalene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2-Methylnaphthalene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2-Methylnaphthalene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2-Methylnaphthalene	2011-09	ug/L																
2-Methylnaphthalene	2012-03	ug/L																
2-Methylnaphthalene	2012-09	ug/L																
2-Methylnaphthalene	2013-03	ug/L																
2-Methylnaphthalene	2013-09	ug/L																
2-Methylnaphthalene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2-Methylnaphthalene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2-Methylnaphthalene	2016-03	ug/L			< 11.1	< 11.2												
2-Methylnaphthalene	2016-06	ug/L			< 11.4	< 11.4												
2-Methylnaphthalene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2-Methylnaphthalene	2023-01	ug/L															< 10.9	
2-Methylnaphthalene	2023-03	ug/L															< 10.4	
2-Methylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2-Methylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylphenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2-Methylphenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2-Methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2-Methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2-Methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2-Methylphenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2-Methylphenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2-Methylphenol	2016-03	ug/L			< 11.1	< 11.2												
2-Methylphenol	2016-06	ug/L			< 11.4	< 11.4												
2-Methylphenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2-Methylphenol	2023-01	ug/L															< 10.9	
2-Methylphenol	2023-03	ug/L															< 10.4	
2-Naphthylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2-Naphthylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Naphthylamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2-Naphthylamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2-Naphthylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2-Naphthylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2-Naphthylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2-Naphthylamine	2012-03	ug/L																
2-Naphthylamine	2012-09	ug/L																
2-Naphthylamine	2013-03	ug/L																
2-Naphthylamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2-Naphthylamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2-Naphthylamine	2016-03	ug/L			< 11.1	< 11.2												
2-Naphthylamine	2016-06	ug/L			< 11.4	< 11.4												
2-Naphthylamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2-Naphthylamine	2023-01	ug/L															< 10.9	
2-Naphthylamine	2023-03	ug/L															< 10.4	
2-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitroaniline	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2-Nitroaniline	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2-Nitroaniline	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2-Nitroaniline	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
2-Methylnaphthalene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2-Methylnaphthalene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Methylnaphthalene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Methylnaphthalene	2010-09	ug/L	< 10.0	**0.191 J**	< 10.0	< 10.0	< 10.0										
2-Methylnaphthalene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2-Methylnaphthalene	2011-09	ug/L		< 10.0			< 10.0										
2-Methylnaphthalene	2012-03	ug/L		< 10.0			< 10.0										
2-Methylnaphthalene	2012-09	ug/L		< 10.0			< 10.0										
2-Methylnaphthalene	2013-03	ug/L		< 10.5			< 11.8										
2-Methylnaphthalene	2013-09	ug/L		< 10.1													
2-Methylnaphthalene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2-Methylnaphthalene	2015-10	ug/L	< 11.8		< 10.3					< 11							
2-Methylnaphthalene	2016-03	ug/L					< 10.9			< 11.2							
2-Methylnaphthalene	2016-06	ug/L															
2-Methylnaphthalene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2-Methylnaphthalene	2023-01	ug/L															
2-Methylnaphthalene	2023-03	ug/L					< 10			< 10							
2-Methylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2-Methylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Methylphenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2-Methylphenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2-Methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2-Methylphenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2-Methylphenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
2-Methylphenol	2016-03	ug/L					< 10.9			< 11.2							
2-Methylphenol	2016-06	ug/L															
2-Methylphenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2-Methylphenol	2023-01	ug/L															
2-Methylphenol	2023-03	ug/L					< 10			< 10							
2-Naphthylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2-Naphthylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Naphthylamine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2-Naphthylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Naphthylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Naphthylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2-Naphthylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2-Naphthylamine	2012-03	ug/L					< 10.0										
2-Naphthylamine	2012-09	ug/L		< 10.0			< 10.0										
2-Naphthylamine	2013-03	ug/L					< 11.8										
2-Naphthylamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2-Naphthylamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
2-Naphthylamine	2016-03	ug/L					< 10.9			< 11.2							
2-Naphthylamine	2016-06	ug/L															
2-Naphthylamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2-Naphthylamine	2023-01	ug/L															
2-Naphthylamine	2023-03	ug/L					< 10			< 10							
2-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Nitroaniline	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2-Nitroaniline	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2-Nitroaniline	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2-Nitroaniline	2015-10	ug/L	< 11.8		< 10.3					< 11							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
2-Nitroaniline	2016-03	ug/L			< 11.1	< 11.2												
2-Nitroaniline	2016-06	ug/L			< 11.4	< 11.4												
2-Nitroaniline	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2-Nitroaniline	2023-01	ug/L															< 10.9	
2-Nitroaniline	2023-03	ug/L															< 10.4	
2-Nitrophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
2-Nitrophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitrophenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
2-Nitrophenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
2-Nitrophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
2-Nitrophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
2-Nitrophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
2-Nitrophenol	2012-03	ug/L																
2-Nitrophenol	2012-09	ug/L																
2-Nitrophenol	2013-03	ug/L																
2-Nitrophenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
2-Nitrophenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
2-Nitrophenol	2016-03	ug/L			< 11.1	< 11.2												
2-Nitrophenol	2016-06	ug/L			< 11.4	< 11.4												
2-Nitrophenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
2-Nitrophenol	2023-01	ug/L															< 10.9	
2-Nitrophenol	2023-03	ug/L															< 10.4	
3,3-Dichlorobenzidine	2008-08	ug/L	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 94.4	< 85	< 85	< 85	< 85	< 85	< 94.4	< 85
3,3-Dichlorobenzidine	2009-03	ug/L	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85
3,3-Dichlorobenzidine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
3,3-Dichlorobenzidine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
3,3-Dichlorobenzidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
3,3-Dichlorobenzidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
3,3-Dichlorobenzidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
3,3-Dichlorobenzidine	2015-09	ug/L	< 56.8	< 55.6			< 55.6	< 58.1			< 54.3	< 55.6	< 54.3	< 56.2		< 56.8	< 52.6	
3,3-Dichlorobenzidine	2015-10	ug/L							< 52.1	< 52.6					< 58.8			< 58.8
3,3-Dichlorobenzidine	2016-03	ug/L			< 55.6	< 56.2												
3,3-Dichlorobenzidine	2016-06	ug/L			< 56.8	< 56.8												
3,3-Dichlorobenzidine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
3,3-Dichlorobenzidine	2023-01	ug/L															< 10.9	
3,3-Dichlorobenzidine	2023-03	ug/L															< 10.4	
3,3-Dimethylbenzidine	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20
3,3-Dimethylbenzidine	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
3,3-Dimethylbenzidine	2009-07	ug/L	< 20	< 20.0	< 20.0	< 20		< 20		< 20			< 20.0		< 20	< 20	< 20	< 20
3,3-Dimethylbenzidine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
3,3-Dimethylbenzidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
3,3-Dimethylbenzidine	2010-09	ug/L	< 10.0 R	< 10.0 R	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
3,3-Dimethylbenzidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
3,3-Dimethylbenzidine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
3,3-Dimethylbenzidine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
3,3-Dimethylbenzidine	2016-03	ug/L			< 11.1	< 11.2												
3,3-Dimethylbenzidine	2016-06	ug/L			< 11.4	< 11.4												
3,3-Dimethylbenzidine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
3,3-Dimethylbenzidine	2023-01	ug/L															< 10.9	
3,3-Dimethylbenzidine	2023-03	ug/L															< 10.4	
3-Methylcholanthrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
3-Methylcholanthrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3-Methylcholanthrene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
3-Methylcholanthrene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
3-Methylcholanthrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
3-Methylcholanthrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
3-Methylcholanthrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
2-Nitroaniline	2016-03	ug/L					< 10.9			< 11.2							
2-Nitroaniline	2016-06	ug/L															
2-Nitroaniline	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2-Nitroaniline	2023-01	ug/L															
2-Nitroaniline	2023-03	ug/L					< 10			< 10							
2-Nitrophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
2-Nitrophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
2-Nitrophenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
2-Nitrophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Nitrophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
2-Nitrophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
2-Nitrophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
2-Nitrophenol	2012-03	ug/L					< 10.0										
2-Nitrophenol	2012-09	ug/L					< 10.0										
2-Nitrophenol	2013-03	ug/L					< 11.8										
2-Nitrophenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
2-Nitrophenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
2-Nitrophenol	2016-03	ug/L					< 10.9			< 11.2							
2-Nitrophenol	2016-06	ug/L															
2-Nitrophenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
2-Nitrophenol	2023-01	ug/L															
2-Nitrophenol	2023-03	ug/L					< 10			< 10							
3,3-Dichlorobenzidine	2008-08	ug/L	< 85	< 85	< 85	< 85	< 85	< 94.4	< 85								
3,3-Dichlorobenzidine	2009-03	ug/L	< 85	< 85	< 85	< 85	< 85	< 85	< 85								
3,3-Dichlorobenzidine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
3,3-Dichlorobenzidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
3,3-Dichlorobenzidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
3,3-Dichlorobenzidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
3,3-Dichlorobenzidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
3,3-Dichlorobenzidine	2015-09	ug/L		< 54.9		< 56.2	< 58.1	< 56.2	< 56.2								
3,3-Dichlorobenzidine	2015-10	ug/L	< 58.8		< 51.5					< 54.9							
3,3-Dichlorobenzidine	2016-03	ug/L					< 54.3			< 56.2							
3,3-Dichlorobenzidine	2016-06	ug/L															
3,3-Dichlorobenzidine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
3,3-Dichlorobenzidine	2023-01	ug/L															
3,3-Dichlorobenzidine	2023-03	ug/L					< 10			< 10							
3,3-Dimethylbenzidine	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20								
3,3-Dimethylbenzidine	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20								
3,3-Dimethylbenzidine	2009-07	ug/L	< 20.0	< 20	< 20	< 20	< 20.0	< 22.7	< 20.0								
3,3-Dimethylbenzidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
3,3-Dimethylbenzidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
3,3-Dimethylbenzidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
3,3-Dimethylbenzidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
3,3-Dimethylbenzidine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
3,3-Dimethylbenzidine	2015-10	ug/L	< 11.8		< 10.3					< 11							
3,3-Dimethylbenzidine	2016-03	ug/L					< 10.9			< 11.2							
3,3-Dimethylbenzidine	2016-06	ug/L															
3,3-Dimethylbenzidine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
3,3-Dimethylbenzidine	2023-01	ug/L															
3,3-Dimethylbenzidine	2023-03	ug/L					< 10			< 10							
3-Methylcholanthrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
3-Methylcholanthrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
3-Methylcholanthrene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
3-Methylcholanthrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
3-Methylcholanthrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
3-Methylcholanthrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
3-Methylcholanthrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
3-Methylcholanthrene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
3-Methylcholanthrene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
3-Methylcholanthrene	2016-03	ug/L			< 11.1	< 11.2												
3-Methylcholanthrene	2016-06	ug/L			< 11.4	< 11.4												
3-Methylcholanthrene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
3-Methylcholanthrene	2023-01	ug/L															< 10.9	
3-Methylcholanthrene	2023-03	ug/L															< 10.4	
3-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
3-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3-Nitroaniline	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
3-Nitroaniline	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
3-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
3-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
3-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
3-Nitroaniline	2011-09	ug/L																
3-Nitroaniline	2012-03	ug/L																
3-Nitroaniline	2012-09	ug/L																
3-Nitroaniline	2013-03	ug/L																
3-Nitroaniline	2013-09	ug/L																
3-Nitroaniline	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
3-Nitroaniline	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
3-Nitroaniline	2016-03	ug/L			< 11.1	< 11.2												
3-Nitroaniline	2016-06	ug/L			< 11.4	< 11.4												
3-Nitroaniline	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
3-Nitroaniline	2023-01	ug/L															< 10.9	
3-Nitroaniline	2023-03	ug/L															< 10.4	
4,4'-DDD	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
4,4'-DDD	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
4,4'-DDD	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
4,4'-DDD	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
4,4'-DDD	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
4,4'-DDD	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
4,4'-DDD	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
4,4'-DDD	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
4,4'-DDD	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
4,4'-DDD	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
4,4'-DDD	2016-03	ug/L			< 0.032	< 0.0356												
4,4'-DDD	2016-06	ug/L			< 0.0364	< 0.0364												
4,4'-DDD	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.0416	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
4,4'-DDD	2023-01	ug/L															< 0.0727	
4,4'-DDD	2023-03	ug/L															< 0.0667	
4,4'-DDE	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
4,4'-DDE	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
4,4'-DDE	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
4,4'-DDE	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
4,4'-DDE	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
4,4'-DDE	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
4,4'-DDE	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
4,4'-DDE	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
4,4'-DDE	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
4,4'-DDE	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
4,4'-DDE	2016-03	ug/L			**0.00273 J**	< 0.0356												
4,4'-DDE	2016-06	ug/L			< 0.0364	< 0.0364												
4,4'-DDE	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	**0.0093 J**	**0.0029 J**	< 0.0376	< 0.0376	< 0.0416	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
4,4'-DDE	2023-01	ug/L															< 0.0727	
4,4'-DDE	2023-03	ug/L															< 0.0667	
4,4'-DDT	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	**0.53**	< 0.058	< 0.053		< 0.053

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
3-Methylcholanthrene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
3-Methylcholanthrene	2015-10	ug/L	< 11.8		< 10.3					< 11							
3-Methylcholanthrene	2016-03	ug/L					< 10.9			< 11.2							
3-Methylcholanthrene	2016-06	ug/L															
3-Methylcholanthrene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
3-Methylcholanthrene	2023-01	ug/L															
3-Methylcholanthrene	2023-03	ug/L					< 10			< 10							
3-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
3-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
3-Nitroaniline	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
3-Nitroaniline	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
3-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
3-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
3-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	**0.646 J**	< 10.0	< 10.0	< 10.0									
3-Nitroaniline	2011-09	ug/L			< 10.0		< 10.0										
3-Nitroaniline	2012-03	ug/L			< 10.0		< 10.0										
3-Nitroaniline	2012-09	ug/L			< 10.0		< 10.0										
3-Nitroaniline	2013-03	ug/L			< 10.6		< 11.8										
3-Nitroaniline	2013-09	ug/L			< 11.0												
3-Nitroaniline	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
3-Nitroaniline	2015-10	ug/L	< 11.8		< 10.3					< 11							
3-Nitroaniline	2016-03	ug/L					< 10.9			< 11.2							
3-Nitroaniline	2016-06	ug/L															
3-Nitroaniline	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
3-Nitroaniline	2023-01	ug/L															
3-Nitroaniline	2023-03	ug/L					< 10			< 10							
4,4'-DDD	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
4,4'-DDD	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
4,4'-DDD	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
4,4'-DDD	2009-07	ug/L					< 0.0320		< 0.0320								
4,4'-DDD	2009-09	ug/L					< 0.0320		< 0.0320								
4,4'-DDD	2010-03	ug/L					< 0.0320		< 0.0320								
4,4'-DDD	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
4,4'-DDD	2011-03	ug/L					< 0.0320										
4,4'-DDD	2015-09	ug/L		**0.00581 J**		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
4,4'-DDD	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
4,4'-DDD	2016-03	ug/L					< 0.0333			< 0.0356							
4,4'-DDD	2016-06	ug/L															
4,4'-DDD	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
4,4'-DDD	2023-01	ug/L															
4,4'-DDD	2023-03	ug/L					< 0.0696			< 0.064							
4,4'-DDE	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
4,4'-DDE	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
4,4'-DDE	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
4,4'-DDE	2009-07	ug/L					< 0.0320		< 0.0320								
4,4'-DDE	2009-09	ug/L					< 0.0320		< 0.0320								
4,4'-DDE	2010-03	ug/L					< 0.0320		< 0.0320								
4,4'-DDE	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
4,4'-DDE	2011-03	ug/L					< 0.0320										
4,4'-DDE	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
4,4'-DDE	2015-10	ug/L	< 0.0372		**0.00279 J**					< 0.0372							
4,4'-DDE	2016-03	ug/L					**0.00227 J**			< 0.0356 J							
4,4'-DDE	2016-06	ug/L															
4,4'-DDE	2020-08	ug/L	< 0.039	**0.00456 J**	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
4,4'-DDE	2023-01	ug/L															
4,4'-DDE	2023-03	ug/L					< 0.0696			< 0.064							
4,4'-DDT	2008-08	ug/L		< 0.047	< 0.051	< 0.055											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
4,4'-DDT	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
4,4'-DDT	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
4,4'-DDT	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
4,4'-DDT	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
4,4'-DDT	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
4,4'-DDT	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
4,4'-DDT	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
4,4'-DDT	2011-09	ug/L												< 0.0320				
4,4'-DDT	2012-03	ug/L												< 0.0320				
4,4'-DDT	2012-09	ug/L												< 0.0320				
4,4'-DDT	2013-03	ug/L												< 0.036				
4,4'-DDT	2013-09	ug/L												< 0.0360				
4,4'-DDT	2014-03	ug/L												< 0.0348				
4,4'-DDT	2014-09	ug/L												< 0.0348				
4,4'-DDT	2015-03	ug/L												< 0.0348				
4,4'-DDT	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
4,4'-DDT	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
4,4'-DDT	2016-03	ug/L			< 0.032	**0.0131 J**								< 0.0352				
4,4'-DDT	2016-06	ug/L			< 0.0364	**0.0121 J**												
4,4'-DDT	2016-08	ug/L												< 0.036				
4,4'-DDT	2017-03	ug/L												< 0.0333				
4,4'-DDT	2017-08	ug/L												**0.00628 J**				
4,4'-DDT	2018-03	ug/L												< 0.036				
4,4'-DDT	2018-08	ug/L																
4,4'-DDT	2018-09	ug/L												< 0.0344				
4,4'-DDT	2019-03	ug/L												< 0.0364				
4,4'-DDT	2019-08	ug/L												< 0.034				
4,4'-DDT	2020-03	ug/L												**0.00602 J**				
4,4'-DDT	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	**0.0149 J**	< 0.0416	**0.00888 J**	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
4,4'-DDT	2021-08	ug/L												< 0.0386				
4,4'-DDT	2022-08	ug/L												< 0.064				
4,4'-DDT	2023-01	ug/L															< 0.0727	
4,4'-DDT	2023-03	ug/L															< 0.0667	
4,4'-DDT	2023-08	ug/L												< 0.0744				
4,4'-DDT	2024-08	ug/L												< 0.064				
4,6-Dinitro-2-methylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
4,6-Dinitro-2-methylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
4,6-Dinitro-2-methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
4,6-Dinitro-2-methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
4,6-Dinitro-2-methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
4,6-Dinitro-2-methylphenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
4,6-Dinitro-2-methylphenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
4,6-Dinitro-2-methylphenol	2016-03	ug/L			< 11.1	< 11.2												
4,6-Dinitro-2-methylphenol	2016-06	ug/L			< 11.4	< 11.4												
4,6-Dinitro-2-methylphenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
4,6-Dinitro-2-methylphenol	2023-01	ug/L															< 10.9	
4,6-Dinitro-2-methylphenol	2023-03	ug/L															< 10.4	
4-Aminobiphenyl	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20
4-Aminobiphenyl	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
4-Aminobiphenyl	2009-07	ug/L	< 20	< 20.0	< 20.0	< 20		< 20		< 20			< 20.0		< 20	< 20	< 20	< 20
4-Aminobiphenyl	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
4-Aminobiphenyl	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
4-Aminobiphenyl	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
4-Aminobiphenyl	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
4-Aminobiphenyl	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
4,4'-DDT	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
4,4'-DDT	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
4,4'-DDT	2009-07	ug/L					< 0.0320		< 0.0320								
4,4'-DDT	2009-09	ug/L					< 0.0320		< 0.0320								
4,4'-DDT	2010-03	ug/L					< 0.0320		< 0.0320								
4,4'-DDT	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
4,4'-DDT	2011-03	ug/L					< 0.0320										
4,4'-DDT	2011-09	ug/L					< 0.0320										
4,4'-DDT	2012-03	ug/L					< 0.0320		< 0.0320								
4,4'-DDT	2012-09	ug/L															
4,4'-DDT	2013-03	ug/L					< 0.0333										
4,4'-DDT	2013-09	ug/L															
4,4'-DDT	2014-03	ug/L					< 0.0348										
4,4'-DDT	2014-09	ug/L					< 0.032										
4,4'-DDT	2015-03	ug/L					< 0.036										
4,4'-DDT	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
4,4'-DDT	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
4,4'-DDT	2016-03	ug/L					< 0.0333			< 0.0356							
4,4'-DDT	2016-06	ug/L															
4,4'-DDT	2016-08	ug/L					< 0.0356			< 0.0356							
4,4'-DDT	2017-03	ug/L					< 0.0337			< 0.0372							
4,4'-DDT	2017-08	ug/L					< 0.0356			< 0.0356							
4,4'-DDT	2018-03	ug/L					< 0.0444			< 0.0372							
4,4'-DDT	2018-08	ug/L					< 0.0451			< 0.0381							
4,4'-DDT	2018-09	ug/L															
4,4'-DDT	2019-03	ug/L					< 0.039			< 0.0395							
4,4'-DDT	2019-08	ug/L					< 0.0346			< 0.034							
4,4'-DDT	2020-03	ug/L					< 0.0427			< 0.0376							
4,4'-DDT	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
4,4'-DDT	2021-08	ug/L					< 0.04			< 0.0368							
4,4'-DDT	2022-08	ug/L					< 0.0667			< 0.0604							
4,4'-DDT	2023-01	ug/L															
4,4'-DDT	2023-03	ug/L					< 0.0696			< 0.064							
4,4'-DDT	2023-08	ug/L					< 0.0604			< 0.0711							
4,4'-DDT	2024-08	ug/L					< 0.064			< 0.0696							
4,6-Dinitro-2-methylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
4,6-Dinitro-2-methylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
4,6-Dinitro-2-methylphenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
4,6-Dinitro-2-methylphenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4,6-Dinitro-2-methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4,6-Dinitro-2-methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
4,6-Dinitro-2-methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
4,6-Dinitro-2-methylphenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
4,6-Dinitro-2-methylphenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
4,6-Dinitro-2-methylphenol	2016-03	ug/L					< 10.9			< 11.2							
4,6-Dinitro-2-methylphenol	2016-06	ug/L															
4,6-Dinitro-2-methylphenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
4,6-Dinitro-2-methylphenol	2023-01	ug/L															
4,6-Dinitro-2-methylphenol	2023-03	ug/L					< 10			< 10							
4-Aminobiphenyl	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20								
4-Aminobiphenyl	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20								
4-Aminobiphenyl	2009-07	ug/L	< 20.0	< 20	< 20	< 20	< 20.0	< 22.7	< 20.0								
4-Aminobiphenyl	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Aminobiphenyl	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Aminobiphenyl	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
4-Aminobiphenyl	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
4-Aminobiphenyl	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
4-Aminobiphenyl	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
4-Aminobiphenyl	2016-03	ug/L			< 11.1	< 11.2												
4-Aminobiphenyl	2016-06	ug/L			< 11.4	< 11.4												
4-Aminobiphenyl	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
4-Aminobiphenyl	2023-01	ug/L															< 10.9	
4-Aminobiphenyl	2023-03	ug/L															< 10.4	
4-Bromophenyl Phenyl Ether	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
4-Bromophenyl Phenyl Ether	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Bromophenyl Phenyl Ether	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
4-Bromophenyl Phenyl Ether	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
4-Bromophenyl Phenyl Ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
4-Bromophenyl Phenyl Ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
4-Bromophenyl Phenyl Ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
4-Bromophenyl Phenyl Ether	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
4-Bromophenyl Phenyl Ether	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
4-Bromophenyl Phenyl Ether	2016-03	ug/L			< 11.1	< 11.2												
4-Bromophenyl Phenyl Ether	2016-06	ug/L			< 11.4	< 11.4												
4-Bromophenyl Phenyl Ether	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
4-Bromophenyl Phenyl Ether	2023-01	ug/L															< 10.9	
4-Bromophenyl Phenyl Ether	2023-03	ug/L															< 10.4	
4-Chloro-3-methylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
4-Chloro-3-methylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chloro-3-methylphenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
4-Chloro-3-methylphenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
4-Chloro-3-methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
4-Chloro-3-methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
4-Chloro-3-methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
4-Chloro-3-methylphenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
4-Chloro-3-methylphenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
4-Chloro-3-methylphenol	2016-03	ug/L			< 11.1	< 11.2												
4-Chloro-3-methylphenol	2016-06	ug/L			< 11.4	< 11.4												
4-Chloro-3-methylphenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
4-Chloro-3-methylphenol	2023-01	ug/L															< 10.9	
4-Chloro-3-methylphenol	2023-03	ug/L															< 10.4	
4-Chloroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
4-Chloroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chloroaniline	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
4-Chloroaniline	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
4-Chloroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	**0.310 J**	< 10.0	< 11.2
4-Chloroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
4-Chloroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
4-Chloroaniline	2011-09	ug/L														< 10.0		
4-Chloroaniline	2012-03	ug/L														< 10.0		
4-Chloroaniline	2012-09	ug/L														< 10.0		
4-Chloroaniline	2013-03	ug/L														< 11.0		
4-Chloroaniline	2013-09	ug/L														< 11.2		
4-Chloroaniline	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
4-Chloroaniline	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
4-Chloroaniline	2016-03	ug/L			< 11.1	< 11.2												
4-Chloroaniline	2016-06	ug/L			< 11.4	< 11.4												
4-Chloroaniline	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
4-Chloroaniline	2023-01	ug/L															< 10.9	
4-Chloroaniline	2023-03	ug/L															< 10.4	
4-Chlorophenyl Phenyl Ether	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
4-Chlorophenyl Phenyl Ether	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorophenyl Phenyl Ether	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
4-Chlorophenyl Phenyl Ether	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
4-Aminobiphenyl	2015-10	ug/L	< 11.8		< 10.3					< 11							
4-Aminobiphenyl	2016-03	ug/L					< 10.9			< 11.2							
4-Aminobiphenyl	2016-06	ug/L															
4-Aminobiphenyl	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
4-Aminobiphenyl	2023-01	ug/L															
4-Aminobiphenyl	2023-03	ug/L					< 10			< 10							
4-Bromophenyl Phenyl Ether	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
4-Bromophenyl Phenyl Ether	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
4-Bromophenyl Phenyl Ether	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
4-Bromophenyl Phenyl Ether	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Bromophenyl Phenyl Ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Bromophenyl Phenyl Ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
4-Bromophenyl Phenyl Ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
4-Bromophenyl Phenyl Ether	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
4-Bromophenyl Phenyl Ether	2015-10	ug/L	< 11.8		< 10.3					< 11							
4-Bromophenyl Phenyl Ether	2016-03	ug/L					< 10.9			< 11.2							
4-Bromophenyl Phenyl Ether	2016-06	ug/L															
4-Bromophenyl Phenyl Ether	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
4-Bromophenyl Phenyl Ether	2023-01	ug/L															
4-Bromophenyl Phenyl Ether	2023-03	ug/L					< 10			< 10							
4-Chloro-3-methylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
4-Chloro-3-methylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
4-Chloro-3-methylphenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
4-Chloro-3-methylphenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Chloro-3-methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Chloro-3-methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
4-Chloro-3-methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
4-Chloro-3-methylphenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
4-Chloro-3-methylphenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
4-Chloro-3-methylphenol	2016-03	ug/L					< 10.9			< 11.2							
4-Chloro-3-methylphenol	2016-06	ug/L															
4-Chloro-3-methylphenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
4-Chloro-3-methylphenol	2023-01	ug/L															
4-Chloro-3-methylphenol	2023-03	ug/L					< 10			< 10							
4-Chloroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
4-Chloroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
4-Chloroaniline	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
4-Chloroaniline	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Chloroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Chloroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
4-Chloroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
4-Chloroaniline	2011-09	ug/L					< 10.0										
4-Chloroaniline	2012-03	ug/L					< 10.0										
4-Chloroaniline	2012-09	ug/L					< 10.0										
4-Chloroaniline	2013-03	ug/L					< 11.8										
4-Chloroaniline	2013-09	ug/L															
4-Chloroaniline	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
4-Chloroaniline	2015-10	ug/L	< 11.8		< 10.3					< 11							
4-Chloroaniline	2016-03	ug/L					< 10.9			< 11.2							
4-Chloroaniline	2016-06	ug/L															
4-Chloroaniline	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
4-Chloroaniline	2023-01	ug/L															
4-Chloroaniline	2023-03	ug/L					< 10			< 10							
4-Chlorophenyl Phenyl Ether	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
4-Chlorophenyl Phenyl Ether	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
4-Chlorophenyl Phenyl Ether	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
4-Chlorophenyl Phenyl Ether	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
4-Chlorophenyl Phenyl Ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
4-Chlorophenyl Phenyl Ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
4-Chlorophenyl Phenyl Ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
4-Chlorophenyl Phenyl Ether	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
4-Chlorophenyl Phenyl Ether	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
4-Chlorophenyl Phenyl Ether	2016-03	ug/L			< 11.1	< 11.2												
4-Chlorophenyl Phenyl Ether	2016-06	ug/L			< 11.4	< 11.4												
4-Chlorophenyl Phenyl Ether	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
4-Chlorophenyl Phenyl Ether	2023-01	ug/L															< 10.9	
4-Chlorophenyl Phenyl Ether	2023-03	ug/L															< 10.4	
4-Methyl-2-pentanone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2009-07	ug/L	< 10	< 10.0		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
4-Methyl-2-pentanone	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
4-Methyl-2-pentanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2013-03	ug/L	< 10.0	< 10		< 10.0	< 10.0		< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10
4-Methyl-2-pentanone	2013-05	ug/L			< 10.0			< 10.0										
4-Methyl-2-pentanone	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2013-11	ug/L																
4-Methyl-2-pentanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2014-06	ug/L																
4-Methyl-2-pentanone	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2015-03	ug/L	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
4-Methyl-2-pentanone	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
4-Methyl-2-pentanone	2015-10	ug/L			< 10				< 10	< 10					< 10			< 10
4-Methyl-2-pentanone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2016-06	ug/L			< 10	< 10												
4-Methyl-2-pentanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2017-11	ug/L																
4-Methyl-2-pentanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2018-06	ug/L																
4-Methyl-2-pentanone	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2018-09	ug/L					< 10						< 10	< 10				
4-Methyl-2-pentanone	2018-11	ug/L																
4-Methyl-2-pentanone	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2020-03	ug/L	< 10	< 10	< 10			< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2020-04	ug/L				< 10	< 10		< 10									
4-Methyl-2-pentanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2021-03	ug/L							< 10	< 10	< 10	< 10						
4-Methyl-2-pentanone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2022-03	ug/L							< 10	< 10	< 10	< 10						
4-Methyl-2-pentanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2023-01	ug/L															< 10	
4-Methyl-2-pentanone	2023-03	ug/L							< 10	< 10	< 10	< 10					< 10	
4-Methyl-2-pentanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2024-03	ug/L							< 10	< 10	< 10	< 10						
4-Methyl-2-pentanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
4-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
4-Chlorophenyl Phenyl Ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Chlorophenyl Phenyl Ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
4-Chlorophenyl Phenyl Ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
4-Chlorophenyl Phenyl Ether	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
4-Chlorophenyl Phenyl Ether	2015-10	ug/L	< 11.8		< 10.3					< 11							
4-Chlorophenyl Phenyl Ether	2016-03	ug/L					< 10.9			< 11.2							
4-Chlorophenyl Phenyl Ether	2016-06	ug/L															
4-Chlorophenyl Phenyl Ether	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
4-Chlorophenyl Phenyl Ether	2023-01	ug/L															
4-Chlorophenyl Phenyl Ether	2023-03	ug/L					< 10			< 10							
4-Methyl-2-pentanone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
4-Methyl-2-pentanone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
4-Methyl-2-pentanone	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
4-Methyl-2-pentanone	2009-09	ug/L	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0										
4-Methyl-2-pentanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2013-03	ug/L	< 10	< 10	< 250		< 10.0	< 10	< 10								
4-Methyl-2-pentanone	2013-05	ug/L															
4-Methyl-2-pentanone	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2013-11	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2014-06	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
4-Methyl-2-pentanone	2015-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
4-Methyl-2-pentanone	2015-10	ug/L	< 10		< 10					< 10	< 10	< 10	< 10	< 10	< 10		
4-Methyl-2-pentanone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
4-Methyl-2-pentanone	2016-06	ug/L															
4-Methyl-2-pentanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
4-Methyl-2-pentanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
4-Methyl-2-pentanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
4-Methyl-2-pentanone	2017-11	ug/L														< 10	< 10
4-Methyl-2-pentanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2018-06	ug/L														< 10	< 10
4-Methyl-2-pentanone	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10			
4-Methyl-2-pentanone	2018-09	ug/L													< 10	< 10	< 10
4-Methyl-2-pentanone	2018-11	ug/L														< 10	< 10
4-Methyl-2-pentanone	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2020-03	ug/L	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
4-Methyl-2-pentanone	2020-04	ug/L			< 10									< 10			
4-Methyl-2-pentanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
4-Methyl-2-pentanone	2021-03	ug/L		< 10			< 10			< 10							
4-Methyl-2-pentanone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
4-Methyl-2-pentanone	2022-03	ug/L		< 10			< 10			< 10							
4-Methyl-2-pentanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
4-Methyl-2-pentanone	2023-01	ug/L															
4-Methyl-2-pentanone	2023-03	ug/L		< 10			< 10			< 10							
4-Methyl-2-pentanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
4-Methyl-2-pentanone	2024-03	ug/L		< 10			< 10			< 10							
4-Methyl-2-pentanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
4-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
4-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
4-Nitroaniline	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
4-Nitroaniline	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
4-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
4-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
4-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
4-Nitroaniline	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
4-Nitroaniline	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
4-Nitroaniline	2016-03	ug/L			< 11.1	< 11.2												
4-Nitroaniline	2016-06	ug/L			< 11.4	< 11.4												
4-Nitroaniline	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
4-Nitroaniline	2023-01	ug/L															< 10.9	
4-Nitroaniline	2023-03	ug/L															< 10.4	
4-Nitrophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
4-Nitrophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Nitrophenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
4-Nitrophenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
4-Nitrophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
4-Nitrophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	**0.120 J**		< 10.0	< 10.0	< 10.0	< 10.0	
4-Nitrophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
4-Nitrophenol	2011-09	ug/L										< 10.0						
4-Nitrophenol	2012-03	ug/L										< 10.0						
4-Nitrophenol	2012-09	ug/L										< 10.0						
4-Nitrophenol	2013-03	ug/L										< 10.6						
4-Nitrophenol	2013-09	ug/L										< 10.2						
4-Nitrophenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
4-Nitrophenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
4-Nitrophenol	2016-03	ug/L			< 11.1	< 11.2												
4-Nitrophenol	2016-06	ug/L			< 11.4	< 11.4												
4-Nitrophenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
4-Nitrophenol	2023-01	ug/L															< 10.9	
4-Nitrophenol	2023-03	ug/L															< 10.4	
5-Nitro-o-toluidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
5-Nitro-o-toluidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
5-Nitro-o-toluidine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
5-Nitro-o-toluidine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
5-Nitro-o-toluidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
5-Nitro-o-toluidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
5-Nitro-o-toluidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
5-Nitro-o-toluidine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
5-Nitro-o-toluidine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
5-Nitro-o-toluidine	2016-03	ug/L			< 11.1	< 11.2												
5-Nitro-o-toluidine	2016-06	ug/L			< 11.4	< 11.4												
5-Nitro-o-toluidine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
5-Nitro-o-toluidine	2023-01	ug/L															< 10.9	
5-Nitro-o-toluidine	2023-03	ug/L															< 10.4	
7,12-Dimethylbenz(a)anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
7,12-Dimethylbenz(a)anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
7,12-Dimethylbenz(a)anthracene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
7,12-Dimethylbenz(a)anthracene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
7,12-Dimethylbenz(a)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
7,12-Dimethylbenz(a)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
7,12-Dimethylbenz(a)anthracene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
7,12-Dimethylbenz(a)anthracene	2016-03	ug/L			< 11.1	< 11.2												
7,12-Dimethylbenz(a)anthracene	2016-06	ug/L			< 11.4	< 11.4												
7,12-Dimethylbenz(a)anthracene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
4-Nitroaniline	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
4-Nitroaniline	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
4-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
4-Nitroaniline	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
4-Nitroaniline	2015-10	ug/L	< 11.8		< 10.3					< 11							
4-Nitroaniline	2016-03	ug/L					< 10.9			< 11.2							
4-Nitroaniline	2016-06	ug/L															
4-Nitroaniline	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
4-Nitroaniline	2023-01	ug/L															
4-Nitroaniline	2023-03	ug/L					< 10			< 10							
4-Nitrophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
4-Nitrophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
4-Nitrophenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
4-Nitrophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Nitrophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
4-Nitrophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
4-Nitrophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
4-Nitrophenol	2011-09	ug/L					< 10.0										
4-Nitrophenol	2012-03	ug/L					< 10.0										
4-Nitrophenol	2012-09	ug/L					< 10.0										
4-Nitrophenol	2013-03	ug/L					< 11.8										
4-Nitrophenol	2013-09	ug/L															
4-Nitrophenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
4-Nitrophenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
4-Nitrophenol	2016-03	ug/L					< 10.9			< 11.2							
4-Nitrophenol	2016-06	ug/L															
4-Nitrophenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
4-Nitrophenol	2023-01	ug/L															
4-Nitrophenol	2023-03	ug/L					< 10			< 10							
5-Nitro-o-toluidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
5-Nitro-o-toluidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
5-Nitro-o-toluidine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
5-Nitro-o-toluidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
5-Nitro-o-toluidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
5-Nitro-o-toluidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
5-Nitro-o-toluidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
5-Nitro-o-toluidine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
5-Nitro-o-toluidine	2015-10	ug/L	< 11.8		< 10.3					< 11							
5-Nitro-o-toluidine	2016-03	ug/L					< 10.9			< 11.2							
5-Nitro-o-toluidine	2016-06	ug/L															
5-Nitro-o-toluidine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
5-Nitro-o-toluidine	2023-01	ug/L															
5-Nitro-o-toluidine	2023-03	ug/L					< 10			< 10							
7,12-Dimethylbenz(a)anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
7,12-Dimethylbenz(a)anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
7,12-Dimethylbenz(a)anthracene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
7,12-Dimethylbenz(a)anthracene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
7,12-Dimethylbenz(a)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
7,12-Dimethylbenz(a)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
7,12-Dimethylbenz(a)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
7,12-Dimethylbenz(a)anthracene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
7,12-Dimethylbenz(a)anthracene	2015-10	ug/L	< 11.8		< 10.3					< 11							
7,12-Dimethylbenz(a)anthracene	2016-03	ug/L					< 10.9			< 11.2							
7,12-Dimethylbenz(a)anthracene	2016-06	ug/L															
7,12-Dimethylbenz(a)anthracene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
7,12-Dimethylbenz(a)anthracene	2023-01	ug/L															< 10.9	
7,12-Dimethylbenz(a)anthracene	2023-03	ug/L															< 10.4	
Acenaphthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Acenaphthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Acenaphthene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Acenaphthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Acenaphthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Acenaphthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Acenaphthene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Acenaphthene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Acenaphthene	2016-03	ug/L			< 11.1	< 11.2												
Acenaphthene	2016-06	ug/L			< 11.4	< 11.4												
Acenaphthene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Acenaphthene	2023-01	ug/L															< 10.9	
Acenaphthene	2023-03	ug/L															< 10.4	
Acenaphthylene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Acenaphthylene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Acenaphthylene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Acenaphthylene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Acenaphthylene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Acenaphthylene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Acenaphthylene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Acenaphthylene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Acenaphthylene	2016-03	ug/L			< 11.1	< 11.2												
Acenaphthylene	2016-06	ug/L			< 11.4	< 11.4												
Acenaphthylene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Acenaphthylene	2023-01	ug/L															< 10.9	
Acenaphthylene	2023-03	ug/L															< 10.4	
Acetone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**236**	< 10
Acetone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**10.1**	< 10	< 10
Acetone	2009-07	ug/L	< 10	**11.0**		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
Acetone	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
Acetone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**24.4**	< 10.0	< 10.0
Acetone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2013-03	ug/L	< 10.0	< 10		**3.11 J**	< 10.0		< 10	**3.33 J**	**2.26 J**	< 10	< 10	< 10	< 10.0	< 10.0	**2.18 J**	< 10
Acetone	2013-05	ug/L			< 10.0			< 10.0										
Acetone	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2013-11	ug/L																
Acetone	2014-03	ug/L	< 10.0	< 10.0	< 10.0 J	< 10.0	< 10.0 J	< 10.0	**7.87 J**	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0	< 10.0	< 10.0 J	**3.43 J**	< 10.0	**2.84 J**
Acetone	2014-06	ug/L																
Acetone	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10 J	< 10 J	< 10 J	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2015-03	ug/L	< 10	< 10 J	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 J	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Acetone	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
Acetone	2015-10	ug/L			**4.88 J**				**4.72 J**	**10.1**					< 10			< 10
Acetone	2016-03	ug/L	< 10	< 10	**6.52 J**	< 10 J	< 10 J	< 10	< 10	< 10 J	< 10 J	< 10	< 10 J	< 10	< 10	**4.29 J**	< 10	< 10
Acetone	2016-06	ug/L			< 10	< 10												
Acetone	2016-08	ug/L	< 10	< 10	< 10	**2.52 J**	< 10	< 10	< 10	**6.87 J**	**2.18 J**	**3.06 J**	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2017-03	ug/L	< 10	**3.52 J**	< 10	**3.5 J**	**2.73 J**	**3.25 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**6.98 J**	< 10	< 10
Acetone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2017-11	ug/L																
Acetone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
7,12-Dimethylbenz(a)anthracene	2023-01	ug/L															
7,12-Dimethylbenz(a)anthracene	2023-03	ug/L					< 10			< 10							
Acenaphthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Acenaphthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Acenaphthene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Acenaphthene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acenaphthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acenaphthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Acenaphthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Acenaphthene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Acenaphthene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Acenaphthene	2016-03	ug/L					< 10.9			< 11.2							
Acenaphthene	2016-06	ug/L															
Acenaphthene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Acenaphthene	2023-01	ug/L															
Acenaphthene	2023-03	ug/L					< 10			< 10							
Acenaphthylene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Acenaphthylene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Acenaphthylene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Acenaphthylene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acenaphthylene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acenaphthylene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Acenaphthylene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Acenaphthylene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Acenaphthylene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Acenaphthylene	2016-03	ug/L					< 10.9			< 11.2							
Acenaphthylene	2016-06	ug/L															
Acenaphthylene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Acenaphthylene	2023-01	ug/L															
Acenaphthylene	2023-03	ug/L					< 10			< 10							
Acetone	2008-08	ug/L	**33.6**	< 10	< 10	< 10	< 10	< 10	< 10								
Acetone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Acetone	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
Acetone	2009-09	ug/L	< 10.0	< 50.0	**26.1**	< 10.0	< 10.0										
Acetone	2010-03	ug/L	< 10.0	< 10.0	**15.7**	< 10.0	< 10.0	< 10.0	**10.4**								
Acetone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acetone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acetone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acetone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acetone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acetone	2013-03	ug/L	< 10	**2.3 J**	**896**		< 10.0	< 10	< 10								
Acetone	2013-05	ug/L															
Acetone	2013-09	ug/L	< 10.0 J	< 10.0	**832**	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	**6.50 J**	< 10.0		
Acetone	2013-11	ug/L									< 10.0	< 10.0	**4.42 J**	< 10.0	< 10.0		
Acetone	2014-03	ug/L	< 10.0	**2.26 J**	< 10.0 J	**7.07 J**	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	**1.94 J**	< 10.0		
Acetone	2014-06	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acetone	2014-09	ug/L	< 10	**3.09 J**	< 10 J	< 10	< 10	< 10	< 10		< 10	**1.96 J**	< 10	< 10	< 10		
Acetone	2015-03	ug/L	< 10.0	< 10.0	< 10.0 J	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acetone	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
Acetone	2015-10	ug/L	< 10		**3.66 J**					< 10	< 10	< 10	< 10	< 10	< 10		
Acetone	2016-03	ug/L	< 10	< 10 J	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10 J		
Acetone	2016-06	ug/L															
Acetone	2016-08	ug/L	< 10	< 10	**18.6**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**3.14 J**	< 10	< 10		
Acetone	2017-03	ug/L	< 10	< 10	**4.7 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Acetone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Acetone	2017-11	ug/L														< 10	< 10
Acetone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Acetone	2018-06	ug/L																
Acetone	2018-08	ug/L	< 10	< 10	< 10	**4.54 J**		< 10	**3.41 J**	**8.44 J**	**3.65 J**	< 10			< 10	< 10	< 10	< 10
Acetone	2018-09	ug/L					**7.88 J**						< 10	< 10				
Acetone	2018-11	ug/L																
Acetone	2019-03	ug/L	< 10	< 10	< 10	< 10	**7.44 J**	< 10	**3.79 J**	**4.81 J**	**5.81 J**	**5.48 J**	< 10	**4.07 J**	< 10	< 10	< 10	< 10
Acetone	2019-08	ug/L	< 10	< 10	< 10	**3.69 J**	< 10	< 10	< 10	**4.72 J**	< 10	< 10	< 10	< 10	< 10	< 10	**19**	< 10
Acetone	2020-03	ug/L	< 10	< 10	< 10			< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2020-04	ug/L				< 10	**3.27 J**		< 10									
Acetone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2021-03	ug/L							< 10	**16.2**	< 10	< 10						
Acetone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 100	< 10	**3.43 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**4.3 J**	< 10
Acetone	2022-03	ug/L							< 10	**48.2**	< 10	< 10						
Acetone	2022-08	ug/L	< 10	**6.14 J**	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2023-01	ug/L															< 10	
Acetone	2023-03	ug/L							< 10	< 10	< 10	< 10					**11.6**	
Acetone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	**6.28 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2024-03	ug/L							< 10	**5.01 J**	< 10	< 10						
Acetone	2024-08	ug/L	< 10	< 10	< 10	**4.64 J**	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetonitrile	2008-08	mg/L	< 10			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10
Acetonitrile	2009-03	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetonitrile	2010-09	mg/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Acetonitrile	2015-09	mg/L	< 10	< 10			< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
Acetonitrile	2015-10	mg/L							< 10	< 10					< 10			< 10
Acetonitrile	2016-03	mg/L			< 10	< 10												
Acetonitrile	2016-06	mg/L			< 10	< 10												
Acetonitrile	2020-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetonitrile	2023-01	mg/L															< 10	
Acetonitrile	2023-03	mg/L															< 10	
Acetophenone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Acetophenone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetophenone	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Acetophenone	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Acetophenone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Acetophenone	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Acetophenone	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Acetophenone	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Acetophenone	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Acetophenone	2016-03	ug/L			< 11.1	< 11.2												
Acetophenone	2016-06	ug/L			< 11.4	< 11.4												
Acetophenone	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Acetophenone	2023-01	ug/L															< 10.9	
Acetophenone	2023-03	ug/L															< 10.4	
Acrolein	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrolein	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrolein	2009-07	ug/L	< 10	< 10.0		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
Acrolein	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
Acrolein	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrolein	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Acrolein	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Acrolein	2012-09	ug/L														< 10.0		
Acrolein	2015-09	ug/L	< 10	< 10			< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
Acrolein	2015-10	ug/L							< 10	< 10					< 10			< 10
Acrolein	2016-03	ug/L			< 10	< 10												
Acrolein	2016-06	ug/L			< 10	< 10												
Acrolein	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrolein	2023-01	ug/L															< 10	
Acrolein	2023-03	ug/L															< 10	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Acetone	2018-06	ug/L														< 10	< 10
Acetone	2018-08	ug/L	< 10	**4.05 J**	**3.71 J**	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10			
Acetone	2018-09	ug/L													< 10	< 10	< 10
Acetone	2018-11	ug/L														< 10	< 10
Acetone	2019-03	ug/L	< 10	< 10	< 10	**4.04 J**	< 10	< 10	< 10	< 10		**5.1 J**	< 10	< 10	< 10	**4.2 J**	< 10
Acetone	2019-08	ug/L	< 10	< 10	**4.67 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**5.27 J**	< 10	< 10	< 10
Acetone	2020-03	ug/L	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
Acetone	2020-04	ug/L			**3.49 J**									< 10			
Acetone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Acetone	2021-03	ug/L		< 10			< 10			< 10							
Acetone	2021-08	ug/L	< 10	**5.82 J**	< 10	< 10	< 10	< 10	**6.69 J+**	< 10			< 10	**4.06 J**	< 10		< 10
Acetone	2022-03	ug/L		< 10			< 10			< 10							
Acetone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	**9.8 J**	< 10			< 10	< 10	< 10		< 10
Acetone	2023-01	ug/L															
Acetone	2023-03	ug/L		< 10			< 10			< 10							
Acetone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Acetone	2024-03	ug/L		**3.98 J**			< 10			< 10							
Acetone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Acetonitrile	2008-08	mg/L		< 10	< 10	< 10											
Acetonitrile	2009-03	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Acetonitrile	2010-09	mg/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Acetonitrile	2015-09	mg/L		< 10		< 10	< 10	< 10	< 10								
Acetonitrile	2015-10	mg/L	< 10		< 10					< 10							
Acetonitrile	2016-03	mg/L					< 10			< 10							
Acetonitrile	2016-06	mg/L															
Acetonitrile	2020-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Acetonitrile	2023-01	mg/L															
Acetonitrile	2023-03	mg/L					< 10			< 10							
Acetophenone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Acetophenone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Acetophenone	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Acetophenone	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acetophenone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acetophenone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Acetophenone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Acetophenone	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Acetophenone	2015-10	ug/L	< 11.8		< 10.3					< 11							
Acetophenone	2016-03	ug/L					< 10.9			< 11.2							
Acetophenone	2016-06	ug/L															
Acetophenone	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Acetophenone	2023-01	ug/L															
Acetophenone	2023-03	ug/L					< 10			< 10							
Acrolein	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Acrolein	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Acrolein	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
Acrolein	2009-09	ug/L	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0										
Acrolein	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acrolein	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Acrolein	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Acrolein	2012-09	ug/L				< 10.0											
Acrolein	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
Acrolein	2015-10	ug/L	< 10		< 10					< 10							
Acrolein	2016-03	ug/L					< 10			< 10							
Acrolein	2016-06	ug/L															
Acrolein	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Acrolein	2023-01	ug/L															
Acrolein	2023-03	ug/L					< 10			< 10							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Acrylonitrile	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2009-07	ug/L	< 10	< 10.0		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
Acrylonitrile	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
Acrylonitrile	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2013-03	ug/L	< 10.0	< 10		< 10.0	< 10.0		< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10
Acrylonitrile	2013-05	ug/L			< 10.0			< 10.0										
Acrylonitrile	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2013-11	ug/L																
Acrylonitrile	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2014-06	ug/L																
Acrylonitrile	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2015-03	ug/L	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Acrylonitrile	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
Acrylonitrile	2015-10	ug/L			< 10				< 10	< 10					< 10			< 10
Acrylonitrile	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2016-06	ug/L			< 10	< 10												
Acrylonitrile	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 5	< 5
Acrylonitrile	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2017-11	ug/L																
Acrylonitrile	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2018-06	ug/L																
Acrylonitrile	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Acrylonitrile	2018-09	ug/L					< 5						< 5	< 5				
Acrylonitrile	2018-11	ug/L																
Acrylonitrile	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2020-03	ug/L	< 5	< 5	< 5			< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2020-04	ug/L				< 5	< 5		< 5									
Acrylonitrile	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2021-03	ug/L							< 5	< 5	< 5	< 5						
Acrylonitrile	2021-08	ug/L	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2022-03	ug/L							< 5	< 5	< 5	< 5						
Acrylonitrile	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2023-01	ug/L															< 5	
Acrylonitrile	2023-03	ug/L							< 5	< 5	< 5	< 5					< 5	
Acrylonitrile	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2024-03	ug/L							< 5	< 5	< 5	< 5						
Acrylonitrile	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aldrin	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
Aldrin	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
Aldrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Aldrin	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Aldrin	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Aldrin	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Aldrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Aldrin	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Aldrin	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Aldrin	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Aldrin	2016-03	ug/L			< 0.032	< 0.0356												
Aldrin	2016-06	ug/L			< 0.0364	< 0.0364												

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Acrylonitrile	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Acrylonitrile	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Acrylonitrile	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
Acrylonitrile	2009-09	ug/L	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0										
Acrylonitrile	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2013-03	ug/L	< 10	< 10	< 250		< 10.0	< 10	< 10								
Acrylonitrile	2013-05	ug/L															
Acrylonitrile	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2013-11	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2014-06	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
Acrylonitrile	2015-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
Acrylonitrile	2015-10	ug/L	< 10		< 10					< 10	< 10	< 10	< 10	< 10	< 10		
Acrylonitrile	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Acrylonitrile	2016-06	ug/L															
Acrylonitrile	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Acrylonitrile	2017-03	ug/L	< 5	< 10	< 5	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 10	< 10	< 5		
Acrylonitrile	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Acrylonitrile	2017-11	ug/L														**0.795 J**	< 5
Acrylonitrile	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2018-06	ug/L														< 5	< 5
Acrylonitrile	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5			
Acrylonitrile	2018-09	ug/L													< 5	< 5	< 5
Acrylonitrile	2018-11	ug/L														< 5	< 5
Acrylonitrile	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2020-03	ug/L	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5
Acrylonitrile	2020-04	ug/L			< 5									< 5			
Acrylonitrile	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Acrylonitrile	2021-03	ug/L		< 5			< 5			< 5							
Acrylonitrile	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Acrylonitrile	2022-03	ug/L		< 5			< 5			< 5							
Acrylonitrile	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Acrylonitrile	2023-01	ug/L															
Acrylonitrile	2023-03	ug/L		< 5			< 5			< 5							
Acrylonitrile	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Acrylonitrile	2024-03	ug/L		< 5			< 5			< 5							
Acrylonitrile	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Aldrin	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Aldrin	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Aldrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Aldrin	2009-07	ug/L					< 0.0320		< 0.0320								
Aldrin	2009-09	ug/L					< 0.0320		< 0.0320								
Aldrin	2010-03	ug/L					< 0.0320		< 0.0320								
Aldrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Aldrin	2011-03	ug/L					< 0.0320										
Aldrin	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
Aldrin	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
Aldrin	2016-03	ug/L					< 0.0333			< 0.0356							
Aldrin	2016-06	ug/L															

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Aldrin	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	**0.0062 J**	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
Aldrin	2023-01	ug/L															< 0.0727	
Aldrin	2023-03	ug/L															< 0.0667	
Allyl Chloride	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Allyl Chloride	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Allyl Chloride	2009-07	ug/L	< 2	< 2.00		< 2		< 2	< 2	< 2	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2	
Allyl Chloride	2009-09	ug/L	< 2	< 2.00		< 2.00		< 2.00	< 2.00	< 10.0	< 2.00	< 2	< 2	< 2	< 2	< 2	< 2	
Allyl Chloride	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Allyl Chloride	2010-09	ug/L	< 2.00	< 2.00	< 2.00			< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	
Allyl Chloride	2011-03	ug/L	< 4.00	< 4.00	< 4.00			< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	
Allyl Chloride	2012-09	ug/L														< 4.00		
Allyl Chloride	2015-09	ug/L	< 2	< 2			< 2	< 2			< 2	< 2	< 2	< 2		< 2	< 2	
Allyl Chloride	2015-10	ug/L							< 2	< 2					< 2			< 2
Allyl Chloride	2016-03	ug/L			< 2	< 2												
Allyl Chloride	2016-06	ug/L			< 2	< 2												
Allyl Chloride	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Allyl Chloride	2023-01	ug/L															< 2	
Allyl Chloride	2023-03	ug/L															< 2	
alpha-BHC	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
alpha-BHC	2008-09	ug/L		< 0.016	< 0.016												**0.326**	
alpha-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
alpha-BHC	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
alpha-BHC	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
alpha-BHC	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
alpha-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
alpha-BHC	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
alpha-BHC	2011-09	ug/L															< 0.0320	
alpha-BHC	2012-03	ug/L															< 0.0320	
alpha-BHC	2012-09	ug/L															< 0.0320	
alpha-BHC	2013-03	ug/L															**0.00223 J**	
alpha-BHC	2013-09	ug/L															< 0.0323	
alpha-BHC	2014-03	ug/L															< 0.0330	
alpha-BHC	2014-09	ug/L															< 0.0381	
alpha-BHC	2015-03	ug/L															**0.00308 J**	
alpha-BHC	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
alpha-BHC	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
alpha-BHC	2016-03	ug/L			< 0.032	< 0.0356											< 0.0333	
alpha-BHC	2016-06	ug/L			< 0.0364	< 0.0364												
alpha-BHC	2016-08	ug/L															< 0.036	
alpha-BHC	2017-03	ug/L															< 0.0381	
alpha-BHC	2017-08	ug/L															< 0.178	
alpha-BHC	2018-03	ug/L															< 0.0372	
alpha-BHC	2018-08	ug/L															< 0.0352	
alpha-BHC	2019-03	ug/L															< 0.039	
alpha-BHC	2019-08	ug/L															< 0.0327	
alpha-BHC	2020-03	ug/L															< 0.0356	
alpha-BHC	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.0416	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
alpha-BHC	2021-08	ug/L															< 0.0356	
alpha-BHC	2023-01	ug/L															< 0.0727	
alpha-BHC	2023-03	ug/L															< 0.0667	
alpha-BHC	2023-08	ug/L															< 0.0604	
alpha-BHC	2024-08	ug/L															< 0.064	
Anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Anthracene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Aldrin	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Aldrin	2023-01	ug/L															
Aldrin	2023-03	ug/L					< 0.0696			< 0.064							
Allyl Chloride	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Allyl Chloride	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Allyl Chloride	2009-07	ug/L	< 2.00	< 2	< 2	< 2	< 2.00										
Allyl Chloride	2009-09	ug/L	< 2.00	< 10.0	< 2.00	< 2.00	< 2.00										
Allyl Chloride	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Allyl Chloride	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00										
Allyl Chloride	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00									
Allyl Chloride	2012-09	ug/L				< 4.00											
Allyl Chloride	2015-09	ug/L		< 2		< 2	< 2	< 2	< 2								
Allyl Chloride	2015-10	ug/L	< 2		< 2					< 2							
Allyl Chloride	2016-03	ug/L					< 2			< 2							
Allyl Chloride	2016-06	ug/L															
Allyl Chloride	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2							
Allyl Chloride	2023-01	ug/L															
Allyl Chloride	2023-03	ug/L					< 2			< 2							
alpha-BHC	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
alpha-BHC	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
alpha-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
alpha-BHC	2009-07	ug/L					< 0.0320		< 0.0320								
alpha-BHC	2009-09	ug/L					< 0.0320		< 0.0320								
alpha-BHC	2010-03	ug/L					< 0.0320		< 0.0320								
alpha-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
alpha-BHC	2011-03	ug/L					< 0.0320										
alpha-BHC	2011-09	ug/L					< 0.0320										
alpha-BHC	2012-03	ug/L					< 0.0320		< 0.0320								
alpha-BHC	2012-09	ug/L															
alpha-BHC	2013-03	ug/L					< 0.0333										
alpha-BHC	2013-09	ug/L															
alpha-BHC	2014-03	ug/L					< 0.0348										
alpha-BHC	2014-09	ug/L					< 0.032										
alpha-BHC	2015-03	ug/L					< 0.036										
alpha-BHC	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
alpha-BHC	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
alpha-BHC	2016-03	ug/L					**0.00294 J**			< 0.0356							
alpha-BHC	2016-06	ug/L															
alpha-BHC	2016-08	ug/L					< 0.0356			< 0.0356							
alpha-BHC	2017-03	ug/L					< 0.0337			< 0.0372							
alpha-BHC	2017-08	ug/L					< 0.0356			< 0.0356							
alpha-BHC	2018-03	ug/L					< 0.0444			< 0.0372							
alpha-BHC	2018-08	ug/L					< 0.0451			< 0.0381							
alpha-BHC	2019-03	ug/L					< 0.039			< 0.0395							
alpha-BHC	2019-08	ug/L					**0.00189 J**			**0.00209 J**							
alpha-BHC	2020-03	ug/L					< 0.0427			< 0.0376							
alpha-BHC	2020-08	ug/L	< 0.039	< 0.0376	**0.0804 J**	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
alpha-BHC	2021-08	ug/L					< 0.04			< 0.0368							
alpha-BHC	2023-01	ug/L															
alpha-BHC	2023-03	ug/L					< 0.0696			< 0.064							
alpha-BHC	2023-08	ug/L					< 0.0604			< 0.0711							
alpha-BHC	2024-08	ug/L					< 0.064			< 0.0696							
Anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Anthracene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Anthracene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Anthracene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Anthracene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Anthracene	2016-03	ug/L			< 11.1	< 11.2												
Anthracene	2016-06	ug/L			< 11.4	< 11.4												
Anthracene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Anthracene	2023-01	ug/L															< 10.9	
Anthracene	2023-03	ug/L															< 10.4	
Antimony	2008-08	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Antimony	2009-03	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Antimony	2010-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2010-09	mg/L	**0.0106**	< 0.00600	< 0.00600	**0.00784**	**0.00686**	**0.00985 J**	**0.0109**	**0.00760**	**0.00934**	**0.0212 J**	**0.0105**	**0.00779**	**0.00840**	< 0.00600	< 0.00600	**0.00942**
Antimony	2011-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2011-09	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	**0.00747**	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2012-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2012-09	mg/L	< 0.0120	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.0120	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2013-03	mg/L	**0.00579 J**	< 0.006		< 0.00600	**0.00131 J**		**0.000841 J**	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	**0.00202 J**	< 0.00600	< 0.006	< 0.006 J
Antimony	2013-05	mg/L			< 0.00600			< 0.00600										
Antimony	2013-09	mg/L	**0.00408 J**	**0.00222 J**	**0.00241 J**	**0.00588 J**	**0.00709**	**0.0105**	**0.0117**	**0.00901**	**0.0121**	**0.00945**	**0.00896**	**0.00823**	**0.00745**	< 0.00600	< 0.00600	< 0.00600
Antimony	2013-11	mg/L																
Antimony	2014-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2014-06	mg/L																
Antimony	2014-09	mg/L	< 0.001	< 0.001	< 0.001	**0.000593 J**	**0.000529 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000426 J**	**0.000248 J**	**0.000183 J**
Antimony	2015-03	mg/L	< 0.001	**0.000438 J**	< 0.00100	**0.000615 J**	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.001	< 0.00100
Antimony	2015-09	mg/L	< 0.001	< 0.001		**0.00119**	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	
Antimony	2015-10	mg/L			< 0.001				< 0.001	< 0.001					< 0.001			< 0.001
Antimony	2016-03	mg/L	< 0.001	< 0.001	< 0.001	**0.00126**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2016-06	mg/L			< 0.001	**0.00097 J**												
Antimony	2016-08	mg/L	< 0.001	< 0.001	< 0.001	**0.00247**	< 0.001	< 0.001	**0.001**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2017-03	mg/L	< 0.001	< 0.001	< 0.001	**0.000848 J**	**0.000299 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0003 J**	< 0.001	< 0.001	< 0.001
Antimony	2017-08	mg/L	< 0.001	< 0.001	< 0.001	**0.000568 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2017-11	mg/L																
Antimony	2018-03	mg/L	**0.000496 J**	**0.00049 J**	< 0.001	**0.00147**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.00124**	< 0.001
Antimony	2018-06	mg/L																
Antimony	2018-08	mg/L	< 0.001	< 0.001	**0.00233**	**0.00156**		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2018-09	mg/L					< 0.001						< 0.001	< 0.001				
Antimony	2018-11	mg/L																
Antimony	2019-03	mg/L	< 0.001	< 0.001	< 0.001	**0.000854 J**	< 0.001	< 0.001	< 0.001	< 0.001	**0.000677 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2019-08	mg/L	< 0.001	< 0.001	< 0.001	**0.00279**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2020-03	mg/L	< 0.001	< 0.001	< 0.001			< 0.001		< 0.001	< 0.004	< 0.001	< 0.001	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2020-04	mg/L				**0.000861 J**	< 0.001		< 0.001									
Antimony	2020-08	mg/L	< 0.001	< 0.001	< 0.001	**0.00117**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2021-03	mg/L							< 0.002	< 0.002	< 0.002	< 0.002						
Antimony	2021-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	**0.0011 J**	< 0.002	< 0.002
Antimony	2022-03	mg/L							< 0.002	< 0.008	< 0.002	< 0.002						
Antimony	2022-08	mg/L	< 0.002 J	< 0.002	< 0.002	**0.0042**	**0.000918 J**		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Antimony	2023-01	mg/L															< 0.002	
Antimony	2023-03	mg/L							< 0.002	< 0.002	< 0.002	< 0.002					< 0.002	
Antimony	2023-08	mg/L	< 0.002	< 0.002	< 0.002	**0.00104 J**	< 0.002		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Antimony	2024-03	mg/L							< 0.002	< 0.002	< 0.002	< 0.002						
Antimony	2024-08	mg/L	< 0.002	< 0.002	< 0.002	**0.00282**	< 0.002		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Arsenic	2008-08	mg/L	**0.0791**	**0.0435**	**0.0033**	**0.0082**	**0.008**	**0.056**	**0.113**	**0.0223**	**0.0368**	**0.0443**	~~**0.0216**~~	**0.003**	< 0.001	**0.0372**	**0.0015**	< 0.001
Arsenic	2009-03	mg/L	**0.0916**	**0.0219**	**0.0026**	**0.0066**	**0.0028**	**0.0412**	**0.1632**	**0.0160**	**0.0739**	**0.0586**	~~**0.0332**~~	**0.0038**	< 0.001	**0.0231**	**0.0047**	**0.0034**
Arsenic	2009-07	mg/L	**0.209**	**0.202**	**0.0024**	**0.0033**	**0.0036**	**0.0387**	**0.15**	**0.0355**	**0.0722**	**0.0479**	~~**0.0221**~~	**0.0013**	**0.0014**	**0.0463**	**0.0039**	**0.0026**
Arsenic	2009-09	mg/L	**0.0716**	**0.0159**	**0.00204**	**0.00310**	**0.00313**	**0.0468**	**0.137**	**0.0231**	**0.0410**	**0.0512**	~~**0.021**~~	**0.0028**	**0.00187**	**0.0513**	**0.00245**	**0.00145**
Arsenic	2010-03	mg/L	**0.00949**	**0.0184**	**0.00317**	< 0.00100	**0.0122**	**0.0278**	**0.177**	**0.0139**	**0.114**	**0.0209**	~~**0.0116**~~	**0.00177**	< 0.00100	**0.0443**	**0.00677**	**0.00334**

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Anthracene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Anthracene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Anthracene	2016-03	ug/L					< 10.9			< 11.2							
Anthracene	2016-06	ug/L															
Anthracene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Anthracene	2023-01	ug/L															
Anthracene	2023-03	ug/L					< 10			< 10							
Antimony	2008-08	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003								
Antimony	2009-03	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004								
Antimony	2010-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600								
Antimony	2010-09	mg/L	**0.00603**	< 0.00600	**0.00668**	**0.0180 J**	**0.00739**	< 0.00600	**0.00658**								
Antimony	2011-03	mg/L	< 0.00600	< 0.00600	< 0.0120	< 0.00600	< 0.00600	< 0.00600	< 0.00600								
Antimony	2011-09	mg/L	< 0.00600	**0.0213**	< 0.00600	**0.00721**	< 0.00600	< 0.00600	< 0.00600								
Antimony	2012-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600								
Antimony	2012-09	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.0120	< 0.00600	< 0.00600	< 0.00600								
Antimony	2013-03	mg/L	**0.00649**	< 0.006	**0.00395 J**		< 0.00600	**0.00508 J**	**0.00357 J**								
Antimony	2013-05	mg/L															
Antimony	2013-09	mg/L	**0.00760**	**0.00288 J**	**0.00986**	**0.00872**	**0.00153 J**	**0.00161 J**	**0.00354 J**	~~< 0.00600~~	< 0.00600	**0.00513 J**	< 0.00600	< 0.00600	**0.00579 J**		
Antimony	2013-11	mg/L								~~< 0.00600~~	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600		
Antimony	2014-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	~~< 0.00600~~	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600		
Antimony	2014-06	mg/L								~~< 0.00600~~	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600		
Antimony	2014-09	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	**0.000292 J**	< 0.001	< 0.001	~~< 0.001~~	< 0.001	< 0.001	**0.000218 J**	< 0.001	< 0.001		
Antimony	2015-03	mg/L	< 0.00100	**0.000274 J**	**0.000162 J**	**0.000163 J**	< 0.001	**0.000441 J**	< 0.001	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Antimony	2015-09	mg/L		< 0.001		< 0.001	< 0.001	< 0.001	< 0.001								
Antimony	2015-10	mg/L	< 0.001		< 0.001					< 0.001	< 0.001	< 0.001	**0.000296 J**	< 0.001	< 0.001		
Antimony	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	**0.000265 J**	< 0.001	< 0.001	< 0.001	< 0.001	**0.000321 J**	< 0.001	< 0.001	< 0.001		
Antimony	2016-06	mg/L															
Antimony	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	**0.000466 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000307 J**	< 0.001	< 0.001		
Antimony	2017-03	mg/L	**0.000394 J**	**0.000352 J**	< 0.001	< 0.001	**0.0003 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000221 J**	< 0.001	**0.000253 J**		
Antimony	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	**0.00021 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0003 J**	< 0.001	< 0.001		
Antimony	2017-11	mg/L														< 0.001	< 0.001
Antimony	2018-03	mg/L	< 0.001	< 0.001	**0.00039 J**	**0.000284 J**	**0.000301 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000215 J**	< 0.001	< 0.001	< 0.001	**0.000531 J**
Antimony	2018-06	mg/L														< 0.001	< 0.001
Antimony	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001			
Antimony	2018-09	mg/L													< 0.001	< 0.001	< 0.001
Antimony	2018-11	mg/L														< 0.001	< 0.001
Antimony	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000625 J**
Antimony	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2020-03	mg/L	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	**0.000702 J**
Antimony	2020-04	mg/L			< 0.001									< 0.001			
Antimony	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Antimony	2021-03	mg/L		< 0.002			< 0.002			< 0.002							
Antimony	2021-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002	< 0.002	< 0.002		< 0.002
Antimony	2022-03	mg/L		< 0.008			**0.000989 J**			< 0.002							
Antimony	2022-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002	< 0.002	< 0.002		< 0.002
Antimony	2023-01	mg/L															
Antimony	2023-03	mg/L		< 0.002			< 0.002			< 0.002							
Antimony	2023-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002	< 0.002	< 0.002		< 0.002
Antimony	2024-03	mg/L		< 0.002			< 0.002			< 0.002							
Antimony	2024-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002	< 0.002	< 0.002		< 0.002
Arsenic	2008-08	mg/L	**0.0424**	**0.051**	**0.0389**	**0.0095**	< 0.001	~~**0.0253**~~	**0.003**								
Arsenic	2009-03	mg/L	**0.0601**	**0.0676**	**0.0511**	< 0.001	< 0.001	~~**0.0396**~~	**0.0050**								
Arsenic	2009-07	mg/L	**0.0739**	**0.027**	**0.022**	**0.0111**	**0.001**	~~**0.0299**~~	**0.0056**								
Arsenic	2009-09	mg/L	**0.0516**	**0.0456**	**0.0179**	**0.00906**	**0.00176**	~~**0.0175**~~									
Arsenic	2010-03	mg/L	**0.0129**	**0.0231**	**0.00750**	**0.0150**	< 0.00100	~~**0.0103**~~	**0.00490**								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Arsenic	2010-09	mg/L	0.0636	0.0167	0.00728	< 0.00100	0.00233	0.0680 J	0.163	0.0355	0.0869	0.0699 J	~~0.0234~~	0.00313	< 0.00100	< 0.00300	0.00781	0.0103
Arsenic	2011-03	mg/L	0.0741	0.0165	0.00252	< 0.00200	0.0128	0.0386	0.238	0.0421	0.104	0.0665	~~0.0105~~	< 0.00100	< 0.00200	0.0539	0.00629	< 0.00100
Arsenic	2011-09	mg/L	0.0509	0.0138	0.00422	< 0.00200	0.00381	0.0468	0.169	0.0341	0.0704	0.0516	~~0.0146~~	0.00765	< 0.00600	0.0531	0.0152	0.00167
Arsenic	2012-03	mg/L	0.0679	0.0170	0.00318	0.00240	0.0132	0.0404	0.154	0.0262	0.122	0.0406	~~0.00336~~	0.0109	0.00238	0.0927	0.0103	0.00747
Arsenic	2012-09	mg/L	0.0590	0.0216	0.00374	0.00200	0.00490	0.0372	0.177	0.0719	0.0673	0.0435	~~0.0385~~	0.0604	0.00148	0.205	0.00491	0.00330
Arsenic	2013-03	mg/L	0.0721	0.0343		0.000733 J	0.0148		0.156	0.0455	0.194	0.0306	~~0.00933~~	0.00837	0.000704 J	0.143	0.00547	0.00602
Arsenic	2013-05	mg/L			< 0.00100			0.0376										
Arsenic	2013-09	mg/L	0.0570	0.0176	0.00138	0.00108	0.0192	0.0550	0.138	0.0475	0.137	0.0568	~~0.0373~~	0.0110	0.000777 J	0.0697	0.00584	0.00406
Arsenic	2013-11	mg/L																
Arsenic	2014-03	mg/L	0.0670	0.0220	< 0.00100	< 0.00100	0.0231	0.0384	0.139	0.0919	0.0966	0.0420	~~0.0375~~	0.0694	0.00192	0.209	0.00636	0.00578
Arsenic	2014-06	mg/L																
Arsenic	2014-09	mg/L	0.0515	0.0175	< 0.002	0.0017 J	0.0021	0.0627	0.135	0.055	0.131	0.0523	~~0.0238~~	0.00641	0.00186 J	0.139	0.0119	0.00332
Arsenic	2015-03	mg/L	0.0557	0.0533	0.00137 J	0.00143 J	0.0153	0.0255	0.155	0.0587	0.0839	0.038	~~0.00239~~	0.00149 J	0.00136 J	0.0307	0.00112 J	< 0.00200
Arsenic	2015-09	mg/L	0.0427	0.0163		0.00148 J	0.0118	0.0465			0.125	0.0419	~~0.0229~~	< 0.002		0.0413	0.00182 J	
Arsenic	2015-10	mg/L			0.00459				0.172	0.0438					< 0.002			< 0.002
Arsenic	2016-03	mg/L	0.048	0.0148	0.00127 J	0.00153 J	0.00502	0.0464	0.13	0.0436	0.261	0.05	~~0.00216~~	0.000713 J	0.000742 J	0.052	0.00178 J	< 0.002
Arsenic	2016-06	mg/L			0.0043	0.00137 J												
Arsenic	2016-08	mg/L	0.0409	0.0133	0.00734	0.00254	0.00809	0.0348	0.128	0.0412	0.239	0.0786	~~0.0412~~	< 0.002	< 0.002	0.0409	0.0019 J	< 0.002
Arsenic	2017-03	mg/L	0.026	0.0148	0.00388	0.00111 J	0.0112	0.054	0.14	0.0561	0.147	0.0681	~~0.00525~~	0.0118	0.000795 J	0.0122	0.00177 J	< 0.002
Arsenic	2017-08	mg/L	0.042	0.0131	0.0129	0.00103 J	0.00536	0.0331	0.124	0.0429	0.157	0.0819	~~0.00629~~	0.00149 J	< 0.002	0.0252	< 0.002	< 0.002
Arsenic	2017-11	mg/L																
Arsenic	2018-03	mg/L	0.0562	0.0161	0.00356	0.00158 J	0.0129	0.0298	0.149	0.0608	0.217	0.0403	~~0.00204~~	0.00198 J	0.000708 J	0.0238	0.00171 J	< 0.002
Arsenic	2018-06	mg/L																
Arsenic	2018-08	mg/L	0.0458	0.0141	0.0307	0.00177 J		0.0264	0.128	0.0548	0.142	0.105			< 0.002	0.0645	0.00157 J	< 0.002
Arsenic	2018-09	mg/L					0.0109						~~0.067~~	0.00259				
Arsenic	2018-11	mg/L																
Arsenic	2019-03	mg/L	0.00174 J	0.014	0.0124	0.00123 J	0.0126	0.0535	0.126	0.0917	0.00836	0.0729	~~0.00161 J~~	0.000938 J	< 0.002	0.02	< 0.002	< 0.002
Arsenic	2019-08	mg/L	0.0424	0.0143	0.0114	0.00314	0.00116 J	0.0282	0.0702	0.072	0.0654	0.095	~~0.00171 J~~	0.00444	0.00097 J	0.0132	0.00165 J	< 0.002
Arsenic	2020-03	mg/L	0.0221	0.0171	0.00576			0.0732		0.0553	0.0558	0.066	0.00178 J	0.00752 J	< 0.002	0.0116	< 0.002	< 0.002
Arsenic	2020-04	mg/L				0.00122 J	0.0028		0.104									
Arsenic	2020-08	mg/L	0.0466	0.0149	0.00504	0.00164 J	0.00439	0.0352	0.0963	0.0663	0.187	0.096	0.00774	0.00332	< 0.002	0.0237	< 0.002	< 0.002
Arsenic	2021-03	mg/L							0.133	0.049	0.102	0.0638						
Arsenic	2021-08	mg/L	0.0484	0.0172	0.0232	0.00135 J	0.00914	0.0105 J	0.149	0.0717	0.0902	0.0599	0.00235	0.0319	0.00132 J	0.0925	< 0.002	0.00368
Arsenic	2022-03	mg/L							0.144	0.0973	0.146	0.0316						
Arsenic	2022-08	mg/L	0.0407 J	0.0157	0.00561	0.00321	0.0125		0.14	0.0398	0.193	0.0808	0.00563	0.00194 J	< 0.002	0.0279	0.00203	0.00113 J
Arsenic	2023-01	mg/L															< 0.002	
Arsenic	2023-03	mg/L							0.116	0.0534	0.0481	0.0675					0.00149 J	
Arsenic	2023-08	mg/L	0.0678	0.0173	0.00513	0.00163 J	0.0133		0.156	0.0549	0.0775	0.048	0.00565	0.0371	0.000545 J	0.024	0.00112 J	< 0.002
Arsenic	2024-03	mg/L							0.152	0.0527	0.183	0.0554						
Arsenic	2024-08	mg/L	0.0461	0.0166	0.00251	0.00408	0.0016 J		0.114	0.0351	0.0638	0.0707	0.0218	0.00116 J	< 0.002	0.0304	0.000928 J	< 0.002
Barium	2008-08	mg/L	0.53	0.48	0.12	0.11	0.21	0.67	0.16	0.27	< 0.1	0.13	0.16	0.22	0.21	1	0.38	0.24
Barium	2009-03	mg/L	0.76	0.39	< 0.05	< 0.05	0.14	0.37	0.16	0.17	0.11	0.13	0.16	0.28	0.13	0.89	0.32	0.26
Barium	2009-07	mg/L	0.72	1	0.1	< 0.1	0.18	0.36	0.14	0.22	< 0.1	0.11	0.15	0.26	0.13	< 0.1	0.22	0.26
Barium	2009-09	mg/L	0.366	0.342	0.0833	0.0668	0.106	0.124	0.124	0.194	0.0783	0.093	0.128	0.221	0.118	0.886	0.24	0.187
Barium	2010-03	mg/L	0.0784	0.359	0.0923	0.0675	0.114	0.0785	0.149	0.304	0.0695	0.0968	0.123	0.173	0.167	0.968	0.301	0.242
Barium	2010-09	mg/L	0.548	0.352	0.0927	0.100	0.101	0.147	0.135	0.261	0.0844	0.0984	0.151	0.252	0.136	0.812	0.294	0.282
Barium	2011-03	mg/L	0.260	0.323	0.0783	0.0833	0.101	0.240	0.129	0.227	0.0986	0.0817	0.180	0.267	0.148	0.893	0.291	0.272
Barium	2011-09	mg/L	0.371	0.329	0.0794	0.0652	0.117	0.129	0.140	0.471	0.109	0.141	0.179	0.303	0.145	0.913	0.286	0.254
Barium	2012-03	mg/L	0.332	0.376	0.0827	0.0828	0.135	0.232	0.143	0.590	0.124	0.105	0.151	0.330	0.180	1.02	0.261	0.254
Barium	2012-09	mg/L	0.367	0.414	0.0869	0.0616	0.142	0.0480	0.157	0.514	0.134	0.128	0.213	0.461	0.228	1.07	0.243	0.272
Barium	2013-03	mg/L	0.266	0.454		0.111	0.109		0.162	0.704	0.0746	0.141	0.162	0.312	0.263	0.943	0.225	0.362
Barium	2013-05	mg/L			0.0872			0.121										
Barium	2013-09	mg/L	0.406	0.405	0.0920	0.0705	0.274	0.194	0.169	0.602	0.0438	0.206	0.161	0.309	0.207	0.955	0.245	0.302
Barium	2013-11	mg/L																
Barium	2014-03	mg/L	0.417	0.393	0.0866	0.0607	0.359	0.0581	0.142	0.484	0.0749	0.173	0.186	0.369	0.209	1.03	0.230	0.328
Barium	2014-06	mg/L																
Barium	2014-09	mg/L	0.524	0.406	0.0983	0.0923	0.203	0.223	0.171	0.723	0.0562	0.277	0.154	0.286	0.203	0.941	0.245	0.271

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Arsenic	2010-09	mg/L	0.0504	0.0236	0.0227	0.0131	< 0.00200	~~0.00781~~	0.00335								
Arsenic	2011-03	mg/L	0.0536	0.0971	0.0820	0.0126	< 0.00200	~~0.00465~~	0.00726								
Arsenic	2011-09	mg/L	0.0445	0.0350	0.0563	0.00455	< 0.00200	~~0.0147~~	0.0120								
Arsenic	2012-03	mg/L	0.0396	0.0614	0.0580	0.0161	< 0.00100	~~0.0131~~	0.00990								
Arsenic	2012-09	mg/L	0.0412	0.0650	0.0585	0.0293	< 0.00100	~~0.0294~~	0.00606								
Arsenic	2013-03	mg/L	0.0373	0.127	0.0862		< 0.00100	~~0.0254~~	0.00702								
Arsenic	2013-05	mg/L															
Arsenic	2013-09	mg/L	0.0534	0.146	0.0516	0.00480	< 0.00100	~~0.0385~~	0.00734	~~0.000395 J~~	< 0.00100	0.000350 J	0.00337	0.00766	0.000550 J		
Arsenic	2013-11	mg/L								~~< 0.00100~~	< 0.00100	< 0.00100	0.00125	0.0110	< 0.00100		
Arsenic	2014-03	mg/L	0.0664	0.0850	0.0619	0.0233	< 0.00100	~~0.0153~~	0.00849	~~0.000461 J~~	< 0.00100	< 0.00100	0.00173	0.0111	< 0.00100		
Arsenic	2014-06	mg/L								~~< 0.00100~~	< 0.00100	< 0.00100	0.000931 J	0.0122	< 0.00100		
Arsenic	2014-09	mg/L	0.0607	0.118	0.0402	0.00458	0.00195 J	~~0.0198~~	0.00548	~~< 0.002~~	< 0.002	< 0.002	0.00272	0.0184	< 0.002		
Arsenic	2015-03	mg/L	0.0449	0.11	0.0483	0.00850	< 0.002	~~0.00802~~	0.00422	0.00145 J	< 0.00200	< 0.00200	0.00480	0.0163	< 0.00200		
Arsenic	2015-09	mg/L		0.0506		0.00393	0.00205	~~0.00476~~	0.00364								
Arsenic	2015-10	mg/L	0.0885		0.0492					< 0.002	< 0.002	< 0.002	0.00245	0.0192	< 0.002		
Arsenic	2016-03	mg/L	0.0307	0.0373	0.0194	0.00609	0.00094 J	~~0.00489~~	0.00369	< 0.002	< 0.002	0.000991 J	0.00184 J	0.0177	< 0.002		
Arsenic	2016-06	mg/L															
Arsenic	2016-08	mg/L	0.0215	0.0361	0.0205	0.00419	< 0.002	~~0.00657~~	0.00287	< 0.002	< 0.002	< 0.002	0.00179 J	0.0168	0.000713 J		
Arsenic	2017-03	mg/L	0.0171	0.0328	0.0305	0.0047	< 0.002	0.00482	0.00368	< 0.002	< 0.002	< 0.002	0.00139 J	0.0173	< 0.002		
Arsenic	2017-08	mg/L	0.0107	0.0384	0.0329	0.00529	0.00094 J	0.00363	0.00295	< 0.002	< 0.002	< 0.002	0.00165 J	0.0235	< 0.002		
Arsenic	2017-11	mg/L														< 0.002	0.00051 J
Arsenic	2018-03	mg/L	0.0135	0.189	0.0496	0.00703	0.000584 J	0.0081	0.00342	< 0.002	< 0.002	0.000584 J	0.00143 J	0.0151	0.000597 J	< 0.002	0.000719 J
Arsenic	2018-06	mg/L														0.0014 J	< 0.002
Arsenic	2018-08	mg/L	0.00912	0.0639	0.0371	0.00543	~~0.000574 J~~	0.00639	0.00311	< 0.002		< 0.002	0.00161 J	0.0128			
Arsenic	2018-09	mg/L													< 0.002	0.000705 J	< 0.002
Arsenic	2018-11	mg/L														0.00101 J	0.000735 J
Arsenic	2019-03	mg/L	0.0208	0.0743	0.0226	0.00533	< 0.002	0.0113	0.00237	< 0.002		< 0.002	0.000965 J	0.0133	< 0.002	0.000925 J	< 0.002
Arsenic	2019-08	mg/L	0.00519	0.0253	0.0237	0.00156 J	< 0.002	0.00527	0.00481	0.000753 J	< 0.002	< 0.002	0.00164 J	0.0168	< 0.002	< 0.002	< 0.002
Arsenic	2020-03	mg/L	0.0469	0.0702		0.00282	< 0.002	0.0188	0.00335	< 0.002	< 0.002	< 0.002	0.00118 J		< 0.002	0.00198 J	< 0.002
Arsenic	2020-04	mg/L			0.0217									0.0102			
Arsenic	2020-08	mg/L	0.00257	0.0465	0.0245	0.00168 J	< 0.002	0.00322	0.00327	< 0.002			0.00132 J	0.0135	< 0.002		< 0.002
Arsenic	2021-03	mg/L		0.0889			< 0.002			0.000798 J							
Arsenic	2021-08	mg/L	0.0185	0.0272	0.0498	0.00403	< 0.002	0.00688	0.00285	< 0.002			0.00123 J	0.0141	< 0.002		< 0.002
Arsenic	2022-03	mg/L		0.172			< 0.002			< 0.002							
Arsenic	2022-08	mg/L	0.00856	0.345	0.0399	0.0033	< 0.002	0.00992	0.00339	< 0.002			0.000917 J	0.0106	< 0.002		< 0.002
Arsenic	2023-01	mg/L															
Arsenic	2023-03	mg/L		0.135			< 0.002			< 0.002							
Arsenic	2023-08	mg/L	0.00927	0.207	0.0418	0.00536	< 0.002	0.0089	0.00296	< 0.002			0.00142 J	0.0124	< 0.002		0.00055 J
Arsenic	2024-03	mg/L		0.109			< 0.002			< 0.002							
Arsenic	2024-08	mg/L	0.0128	0.247	0.0359	0.00291	< 0.002	0.0077	0.00344	< 0.002			0.00143 J	0.0128	< 0.002		0.000615 J
Barium	2008-08	mg/L	0.23	0.58	0.26	0.39	~~< 0.1~~	0.45	< 0.1								
Barium	2009-03	mg/L	0.29	0.86	0.14	0.42	~~< 0.05~~	0.52	< 0.05								
Barium	2009-07	mg/L	0.28	0.93	0.17	0.48	~~< 0.1~~	0.52	< 0.1								
Barium	2009-09	mg/L	0.287	0.802	0.134	0.449	0.0340	0.398									
Barium	2010-03	mg/L	0.209	0.566	0.143	0.466	0.0591	0.335	0.0662								
Barium	2010-09	mg/L	0.244	0.790	0.196	0.340	0.0277	0.258	0.0531								
Barium	2011-03	mg/L	0.190	0.831	0.0614	0.180	0.0365	0.266	0.0600								
Barium	2011-09	mg/L	0.246	1.00	0.171	0.209	0.0244	0.485	0.0671								
Barium	2012-03	mg/L	0.148	0.786	0.159	0.232	0.0430	0.535	0.0649								
Barium	2012-09	mg/L	0.180	0.932	0.163	0.325	0.0501	0.637	0.0682								
Barium	2013-03	mg/L	0.0999	0.163	0.136		0.191	0.978	0.0642								
Barium	2013-05	mg/L															
Barium	2013-09	mg/L	0.269	1.13	0.685	0.128	0.0596	1.10	0.0684	~~0.172~~	0.141	0.182	0.0675	0.367	0.153		
Barium	2013-11	mg/L								~~0.146~~	0.102	0.0985	0.0696	0.0932	0.0944		
Barium	2014-03	mg/L	0.162	0.884	0.193	0.478	0.0487	0.476	0.0698	~~0.0769~~	0.105	0.100	0.0628	0.134	0.0905		
Barium	2014-06	mg/L								~~0.0507~~	0.120	0.0969	0.0425	0.167	0.0852		
Barium	2014-09	mg/L	0.179	1.09	0.398	0.16	0.0525	0.655	0.065	~~0.0699~~	0.122	0.142	0.0724	0.407	0.095		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Barium	2015-03	mg/L	0.501	0.573	0.0759	0.0739	0.153	0.355	0.172	0.621	0.0694	0.246	0.15	0.324	0.208	1.19	0.209	0.255
Barium	2015-09	mg/L	0.442	0.431		0.117	0.125	0.12			0.0467	0.372	0.164	0.28		1.01	0.202	
Barium	2015-10	mg/L			0.0876				0.182	0.67					0.174			0.286
Barium	2016-03	mg/L	0.771	0.379	0.104	0.0788	0.114	0.442	0.159	0.746	0.0571	0.428	0.115	0.196	0.139	1.07	0.177	0.277
Barium	2016-06	mg/L			0.0895	0.0819												
Barium	2016-08	mg/L	0.64	0.332	0.0782	0.0938	0.0981	0.179	0.225	0.739	0.0599	0.43	0.241	0.207	0.121	0.973	0.203	0.271
Barium	2017-03	mg/L	0.303	0.346	0.0762	0.0967	0.148	0.406	0.307	0.861	0.0772	0.372	0.127	0.26	0.168	0.594	0.208	0.337
Barium	2017-08	mg/L	0.518	0.3	0.0748	0.0895	0.141	0.0537	0.329	0.778	0.0561	0.274	0.164	0.281	0.134	0.704	0.176	0.259
Barium	2017-11	mg/L																
Barium	2018-03	mg/L	0.547	0.417	0.078	0.117	0.241	0.0439	0.239	0.846	0.132	0.211	0.149	0.357	0.147	1	0.179	0.216
Barium	2018-06	mg/L																
Barium	2018-08	mg/L	0.386	0.343	0.0858	0.0988		0.0808	0.368	0.823	0.0839	0.301			0.115	1.32	0.218	0.261
Barium	2018-09	mg/L					0.222						0.373	0.328				
Barium	2018-11	mg/L																
Barium	2019-03	mg/L	0.101	0.358	0.0841	0.0959	0.196	0.134	0.384	1.09	0.0783	0.364	0.0946	0.117	0.108	0.601	0.184	0.234
Barium	2019-08	mg/L	0.573	0.351	0.0857	0.117	0.135	0.108	0.367	0.939	0.0648	0.386	0.113	0.257	0.123	0.605	0.225	0.227
Barium	2020-03	mg/L	0.223	0.414	0.0795			0.308		1.05	0.0662	0.191	0.101	0.272	0.136	0.584	0.184	0.267
Barium	2020-04	mg/L				0.093	0.15		0.504									
Barium	2020-08	mg/L	0.408	0.422	0.0741	0.104	0.161	0.135	0.463	0.899	0.0582	0.239	0.167	0.334	0.125	0.68	0.179	0.213
Barium	2021-03	mg/L							0.355	1	0.0692	0.133						
Barium	2021-08	mg/L	0.0802	0.424	0.069	0.0984	0.209	0.0561	0.361	0.824	0.0594	0.12	0.171	0.423	0.144	0.86	0.154	0.219
Barium	2022-03	mg/L							0.347	0.906	0.144	0.0676						
Barium	2022-08	mg/L	0.171 J	0.443	0.0691	0.118	0.241		0.473	0.852	0.0764	0.136	0.139	0.155	0.14	0.872	0.165	0.213
Barium	2023-01	mg/L															0.139	
Barium	2023-03	mg/L							0.407	1.1	0.172	0.161					0.131	
Barium	2023-08	mg/L	0.153	0.438	0.0619	0.103	0.255		0.417	0.794	0.0678	0.134	0.15	0.333	0.148	0.758	0.139	0.155
Barium	2024-03	mg/L							0.388	0.787	0.0651	0.147						
Barium	2024-08	mg/L	0.178 J	0.468	0.0705	0.09	0.193		0.514	0.956	0.148	0.145	0.161	0.146	0.119	0.899	0.159	0.206
Benzene	2008-08	ug/L	< 0.5	0.79	< 0.5	< 0.5	< 0.5	1.29	5.35	5.52	3.67	< 0.5	< 0.5	1.33	< 0.5	4.73	1.58	< 0.5
Benzene	2009-03	ug/L	< 0.5	0.69	< 0.5	< 0.5	< 0.5	1.08	1.89	2.56	3.9	< 0.5	< 0.5	< 0.5	< 0.5	4.43	1.43	< 0.5
Benzene	2009-07	ug/L	0.56	0.550		< 0.5		< 0.5	3.36	3.4	3.66	< 0.5	< 0.500	< 0.500	< 0.5	4.01	1.68	
Benzene	2009-09	ug/L	1.16	0.570		< 0.500		0.910	3.91	4.65	3.85	< 0.5	< 0.5	< 0.5	< 0.5	3.6	1.78	
Benzene	2010-03	ug/L	< 0.500	0.570	< 0.500	< 0.500	< 0.500	< 0.500	3.79	3.40	2.47	< 0.500	< 0.500	< 0.500	< 0.500	4.10	0.800	< 0.500
Benzene	2010-09	ug/L	0.990	0.500	< 0.500	< 0.500	< 0.500	1.42	4.74	7.45	4.11	< 0.500	< 0.500	0.520	< 0.500	4.98	1.26	< 0.500
Benzene	2011-03	ug/L	< 0.500	< 0.500	< 0.500	< 0.500	< 5.00	< 0.500	1.50	4.43	3.62	< 0.500	< 0.500	< 0.500	< 0.500	4.36	0.810	< 0.500
Benzene	2011-09	ug/L	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	0.540	2.00	6.45	3.23	< 0.500	< 0.500	< 0.500	< 0.500	5.46	0.680	< 0.500
Benzene	2012-03	ug/L	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	1.16	5.53	2.72	< 0.500	< 0.500	< 0.500	< 0.500	4.16	< 0.500	< 0.500
Benzene	2012-09	ug/L	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	1.68	4.04	3.13	0.580	< 0.500	< 0.500	< 0.500	5.34	0.670	< 0.500
Benzene	2013-03	ug/L	0.115 J	0.246 J		< 0.500	< 0.500		1.13	5.62	3.21	1.07	< 0.5	< 0.5	< 0.500	5.32	0.401 J	< 0.5
Benzene	2013-05	ug/L			< 0.500			< 0.500										
Benzene	2013-09	ug/L	1.07	0.447 J	< 0.500	< 0.500	< 0.500	0.706	2.50	4.48	2.92	0.267 J	< 0.500	0.528	< 0.500	3.66	0.920	< 0.500
Benzene	2013-11	ug/L																
Benzene	2014-03	ug/L	0.312 J	< 0.500	< 0.500	< 0.500	< 0.500	1.85	1.04	2.39	2.94	0.287 J	< 0.500	< 0.500	0.357 J	4.19	0.455 J	< 0.500
Benzene	2014-06	ug/L																
Benzene	2014-09	ug/L	0.872	0.266 J	< 0.5	< 0.5	< 0.5	0.754	2.45	5.16	2.86	0.19 J	< 0.5	< 0.5	< 0.5	3.4	0.584	< 0.5
Benzene	2015-03	ug/L	0.232 J	0.355 J	< 0.500	< 0.500	< 0.500	0.169 J	0.996	4.46	2.46	< 0.5	< 0.500	0.117 J	< 0.5	4.31	0.325 J	< 0.500
Benzene	2015-09	ug/L	0.154 J	0.237 J		< 0.5	< 0.5	< 0.5			2.85	< 0.5	< 0.5	< 0.5		3.5	0.474 J	
Benzene	2015-10	ug/L			< 0.5				1.58	4.05					< 0.5			< 0.5
Benzene	2016-03	ug/L	0.283 J	0.3 J	< 0.5	< 0.5	< 0.5	0.197 J	3.58	5.54	2.43	< 0.5	< 0.5	< 0.5	< 0.5	3.4	0.367 J	< 0.5
Benzene	2016-06	ug/L			< 0.5	< 0.5												
Benzene	2016-08	ug/L	0.321 J	0.344 J	< 0.5	< 0.5	< 0.5	< 0.5	3.21	5.78	2.39	< 0.5	< 0.5	< 0.5	< 0.5	3.85	0.38 J	< 0.5
Benzene	2017-03	ug/L	< 0.5	0.467 J	< 0.5	< 0.5	< 0.5	< 0.5	3.02	4.82	1.17	< 0.5	< 0.5	< 0.5	< 0.5	6.53	0.409 J	< 0.5
Benzene	2017-08	ug/L	< 0.5	0.418 J	< 0.5	< 0.5	< 0.5	< 0.5	1.07	4.1	1.44	< 0.5	< 0.5	0.181 J	< 0.5	5.95	0.389 J	< 0.5
Benzene	2017-11	ug/L																
Benzene	2018-03	ug/L	< 0.5	0.246 J	< 0.5	< 0.5	< 0.5	< 0.5	0.379 J	3.21	1.75	< 0.5	< 0.5	< 0.5	< 0.5	7.03	0.198 J	< 0.5
Benzene	2018-06	ug/L																
Benzene	2018-08	ug/L	< 0.5	0.278 J	< 0.5	< 0.5		< 0.5	0.697	4.81	1.87	< 0.5			< 0.5	4	0.796	< 0.5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Barium	2015-03	mg/L	0.15	1	0.249	0.16	0.0405	0.593	0.0705	0.112	0.148	0.0988	0.0759	0.129	0.0848		
Barium	2015-09	mg/L		0.975		0.135	0.0563	0.761	0.0729								
Barium	2015-10	mg/L	0.2		0.31					0.059	0.144	0.108	0.0759	0.266	0.0993		
Barium	2016-03	mg/L	0.218	0.802	0.361	0.124	0.0506	0.642	0.0701	0.0463	0.105	0.106	0.0536	0.203	0.095		
Barium	2016-06	mg/L															
Barium	2016-08	mg/L	0.24	0.778	0.46	0.122	0.0469	0.598	0.0641	0.0441	0.125	0.109	0.0558	0.225	0.114		
Barium	2017-03	mg/L	0.235	0.704	0.509	0.146	0.0633	0.582	0.0747	0.0265	0.119	0.106	0.05	0.229	0.0533		
Barium	2017-08	mg/L	0.234	0.784	0.498	0.142	0.0469	0.525	0.0626	0.0377	0.112	0.116	0.0652	0.26	0.135		
Barium	2017-11	mg/L														0.192	0.168
Barium	2018-03	mg/L	0.162	0.797	0.284	0.184	0.0345	0.712	0.0683	0.0531	0.107	0.0829	0.071	0.129	0.0962	0.231	0.22
Barium	2018-06	mg/L														0.0668	0.258
Barium	2018-08	mg/L	0.183	0.805	0.388	0.15	~~0.0295~~	0.847	0.0579	0.047		0.122	0.0614	0.123			
Barium	2018-09	mg/L													0.136	0.51	0.195
Barium	2018-11	mg/L														0.108	0.176
Barium	2019-03	mg/L	0.259	0.566	0.477	0.177	0.0368	0.966	0.0748	0.0389		0.0279	0.0612	0.129	0.0966	0.0449	0.182
Barium	2019-08	mg/L	0.52	0.653	0.672	0.117	0.0294	0.427	0.065	0.0327	0.116	0.0814	0.0713	0.29	0.134	0.262	0.227
Barium	2020-03	mg/L	0.616	0.919		0.174	0.0387	0.541	0.0669	0.0452	0.102	0.103	0.0913		0.135	0.0932	0.241
Barium	2020-04	mg/L			0.455									0.149			
Barium	2020-08	mg/L	0.358	0.765	0.59	0.131	0.0299	0.393	0.0659	0.0694			0.0628	0.239	0.14		0.225
Barium	2021-03	mg/L		0.539			0.035			0.0697							
Barium	2021-08	mg/L	0.349	0.855	0.372	0.157	0.0347	0.575	0.075	0.043			0.0851	0.202	0.132		0.204
Barium	2022-03	mg/L		0.11			0.0255			0.0588							
Barium	2022-08	mg/L	0.272	0.8	0.394	0.142	0.0252	0.748	0.0642	0.0819			0.0813	0.165	0.194		0.248
Barium	2023-01	mg/L															
Barium	2023-03	mg/L		0.695			0.0286			~~0.141~~							
Barium	2023-08	mg/L	0.203	0.918	0.373	0.167	0.0349	0.682	0.0677	0.0846			0.0734	0.11	0.131		0.196
Barium	2024-03	mg/L		0.719			0.0403			0.105							
Barium	2024-08	mg/L	0.135	0.886	0.336	0.149	0.0518	0.774	0.067	0.129			0.078	0.23	0.199		0.191
Benzene	2008-08	ug/L	2.02	4.25	3.67	0.76	< 0.5	< 0.5	< 0.5								
Benzene	2009-03	ug/L	2	3.26	3.33	1.19	< 0.5	< 0.5	< 0.5								
Benzene	2009-07	ug/L	1.44	3.54	3.34	2.71	< 0.500										
Benzene	2009-09	ug/L	1.24	4.20	4.01	1.15	< 0.500										
Benzene	2010-03	ug/L	1.85	4.58	3.28	2.26	< 0.500	< 0.500	< 0.500								
Benzene	2010-09	ug/L	2.62	3.98	2.92	2.06	< 0.500	< 0.500	< 0.500								
Benzene	2011-03	ug/L	2.40	3.40	2.69	1.04	< 0.500	< 0.500	< 0.500								
Benzene	2011-09	ug/L	2.51	3.55	2.58	1.73	< 0.500	< 0.500	< 0.500								
Benzene	2012-03	ug/L	1.47	1.99	2.86	< 0.500	< 0.500	< 0.500	< 0.500								
Benzene	2012-09	ug/L	2.31	2.06	3.68	< 0.500	< 0.500	< 0.500	< 0.500								
Benzene	2013-03	ug/L	1.04	1.44	< 12.5		< 0.500	0.149 J	< 0.5								
Benzene	2013-05	ug/L															
Benzene	2013-09	ug/L	2.55	2.30	2.39	0.230 J	< 0.500	0.347 J	< 0.500		< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2013-11	ug/L									< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2014-03	ug/L	< 0.500	< 0.500	3.49	0.118 J	< 0.500	0.380 J	< 0.500		< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2014-06	ug/L									< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2014-09	ug/L	2.67	2.69	2.84	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Benzene	2015-03	ug/L	2.11	2.09	2.92	< 0.500	< 0.5	0.161 J	< 0.5		< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2015-09	ug/L		2.72		< 0.5	< 0.5	0.302 J	< 0.5								
Benzene	2015-10	ug/L	1.39		2.54					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Benzene	2016-03	ug/L	1.93	2.35	2.89	< 0.5	< 0.5	0.25 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Benzene	2016-06	ug/L															
Benzene	2016-08	ug/L	2.61	2.47	2.34	< 0.5	< 0.5	0.253 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Benzene	2017-03	ug/L	1.51	2.19	2.27	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Benzene	2017-08	ug/L	2.28	2.13	1.83	< 0.5	< 0.5	0.126 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Benzene	2017-11	ug/L														< 0.5	< 0.5
Benzene	2018-03	ug/L	1.17	2.31	2.17	< 0.5	< 0.5	0.289 J	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2018-06	ug/L														< 0.5	< 0.5
Benzene	2018-08	ug/L	1.9	2	2.23	< 0.5	0.943	1.09	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5			

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Benzene	2018-09	ug/L					< 0.5						< 0.5	< 0.5				
Benzene	2018-11	ug/L																
Benzene	2019-03	ug/L	< 0.5	**0.295 J**	< 0.5	< 0.5	< 0.5	< 0.5	**1.45**	**4.02**	**1.04**	< 0.5	< 0.5	< 0.5	< 0.5	**5.75**	**0.393 J**	< 0.5
Benzene	2019-08	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.76**	**4.24**	**1.45**	< 0.5	< 0.5	**0.478 J**	< 0.5	**6.51**	**1.09**	< 0.5
Benzene	2020-03	ug/L	< 0.5	**0.392 J**	< 0.5			**0.357 J**		**5.38**	**1.24**	< 0.5	< 0.5	< 0.5	< 0.5	**7.87**	**0.409 J**	< 0.5
Benzene	2020-04	ug/L				< 0.5	< 0.5		**1.68**									
Benzene	2020-08	ug/L	< 0.5	**0.601**	< 0.5	< 0.5	< 0.5	< 0.5	**1.95**	**4.38**	**1.13**	< 0.5	< 0.5	**0.223 J**	< 0.5	**7.04**	**0.493 J**	< 0.5
Benzene	2021-03	ug/L							**0.921**	**3.76**	**1.02**	< 0.5						
Benzene	2021-08	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	**3.65**	**0.64**	< 0.5	< 0.5	< 0.5	< 0.5	**4.16**	< 0.5	< 0.5
Benzene	2022-03	ug/L							< 0.5	**2.44**	**0.813**	< 0.5						
Benzene	2022-08	ug/L	< 0.5	**0.227 J**	< 0.5	< 0.5	< 0.5		< 0.5	**3.76**	**0.303 J**	< 0.5	< 0.5	**0.257 J**	< 0.5	**6.61**	< 0.5	< 0.5
Benzene	2023-01	ug/L															< 0.5	
Benzene	2023-03	ug/L							**0.918**	**3.74**	**0.726**	< 0.5					< 0.5	
Benzene	2023-08	ug/L	**0.225 J**	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	**3.51**	**0.534**	< 0.5	< 0.5	< 0.5	< 0.5	**7.69**	**0.373 J**	< 0.5
Benzene	2024-03	ug/L							< 0.5	**3.14**	< 0.5	< 0.5						
Benzene	2024-08	ug/L	**0.33 J**	< 0.5	< 0.5	< 0.5	< 0.5		**0.854**	**4.11**	**0.567**	< 0.5	< 0.5	< 0.5	< 0.5	**8.11**	< 0.5	< 0.5
Benzo(a)anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Benzo(a)anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a)anthracene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Benzo(a)anthracene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Benzo(a)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Benzo(a)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Benzo(a)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Benzo(a)anthracene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Benzo(a)anthracene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Benzo(a)anthracene	2016-03	ug/L			< 11.1	< 11.2												
Benzo(a)anthracene	2016-06	ug/L			< 11.4	< 11.4												
Benzo(a)anthracene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Benzo(a)anthracene	2023-01	ug/L															< 10.9	
Benzo(a)anthracene	2023-03	ug/L															< 10.4	
Benzo(a)pyrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Benzo(a)pyrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a)pyrene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Benzo(a)pyrene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Benzo(a)pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Benzo(a)pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Benzo(a)pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Benzo(a)pyrene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Benzo(a)pyrene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Benzo(a)pyrene	2016-03	ug/L			< 11.1	< 11.2												
Benzo(a)pyrene	2016-06	ug/L			< 11.4	< 11.4												
Benzo(a)pyrene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Benzo(a)pyrene	2023-01	ug/L															< 10.9	
Benzo(a)pyrene	2023-03	ug/L															< 10.4	
Benzo(b)fluoranthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Benzo(b)fluoranthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Benzo(b)fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Benzo(b)fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Benzo(b)fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Benzo(b)fluoranthene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Benzo(b)fluoranthene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Benzo(b)fluoranthene	2016-03	ug/L			< 11.1	< 11.2												
Benzo(b)fluoranthene	2016-06	ug/L			< 11.4	< 11.4												
Benzo(b)fluoranthene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Benzo(b)fluoranthene	2023-01	ug/L															< 10.9	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Benzene	2018-09	ug/L													< 0.5	< 0.5	< 0.5
Benzene	2018-11	ug/L					< 0.5									< 0.5	< 0.5
Benzene	2019-03	ug/L	**1.85**	**0.419 J**	**2.74**	< 0.5	< 0.5	**0.793**	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2019-08	ug/L	**4.73**	**1.51**	**2.12**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2020-03	ug/L	**2.66**	**1.28**		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5
Benzene	2020-04	ug/L			**1.33**									< 0.5			
Benzene	2020-08	ug/L	**4.16**	**0.779**	**1.74**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5		< 0.5
Benzene	2021-03	ug/L		**0.731**			< 0.5			< 0.5							
Benzene	2021-08	ug/L	**2.85 J+**	**0.658**	**1.56**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	**0.453 J**		< 0.5
Benzene	2022-03	ug/L		< 0.5			< 0.5			< 0.5							
Benzene	2022-08	ug/L	**2.23**	**0.634**	**1.79**	**0.23 J**	< 0.5	**0.396 J**	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5		< 0.5
Benzene	2023-01	ug/L															
Benzene	2023-03	ug/L		**0.384 J**			< 0.5			< 0.5							
Benzene	2023-08	ug/L	**1.29**	**0.647**	**1.56**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5		< 0.5
Benzene	2024-03	ug/L		**1**			< 0.5			< 0.5							
Benzene	2024-08	ug/L	**1.1**	**0.691**	**1.11**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5		< 0.5
Benzo(a)anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Benzo(a)anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Benzo(a)anthracene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Benzo(a)anthracene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzo(a)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzo(a)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Benzo(a)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Benzo(a)anthracene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Benzo(a)anthracene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Benzo(a)anthracene	2016-03	ug/L					< 10.9			< 11.2							
Benzo(a)anthracene	2016-06	ug/L															
Benzo(a)anthracene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Benzo(a)anthracene	2023-01	ug/L															
Benzo(a)anthracene	2023-03	ug/L					< 10			< 10							
Benzo(a)pyrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Benzo(a)pyrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Benzo(a)pyrene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Benzo(a)pyrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzo(a)pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzo(a)pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Benzo(a)pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Benzo(a)pyrene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Benzo(a)pyrene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Benzo(a)pyrene	2016-03	ug/L					< 10.9			< 11.2							
Benzo(a)pyrene	2016-06	ug/L															
Benzo(a)pyrene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Benzo(a)pyrene	2023-01	ug/L															
Benzo(a)pyrene	2023-03	ug/L					< 10			< 10							
Benzo(b)fluoranthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Benzo(b)fluoranthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Benzo(b)fluoranthene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Benzo(b)fluoranthene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzo(b)fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzo(b)fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Benzo(b)fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Benzo(b)fluoranthene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Benzo(b)fluoranthene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Benzo(b)fluoranthene	2016-03	ug/L					< 10.9			< 11.2							
Benzo(b)fluoranthene	2016-06	ug/L															
Benzo(b)fluoranthene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Benzo(b)fluoranthene	2023-01	ug/L															

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Benzo(b)fluoranthene	2023-03	ug/L															< 10.4	
Benzo(ghi)perylene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Benzo(ghi)perylene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(ghi)perylene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Benzo(ghi)perylene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Benzo(ghi)perylene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Benzo(ghi)perylene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Benzo(ghi)perylene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Benzo(ghi)perylene	2011-09	ug/L																
Benzo(ghi)perylene	2012-03	ug/L																
Benzo(ghi)perylene	2012-09	ug/L																
Benzo(ghi)perylene	2013-03	ug/L																
Benzo(ghi)perylene	2013-09	ug/L																
Benzo(ghi)perylene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Benzo(ghi)perylene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Benzo(ghi)perylene	2016-03	ug/L			< 11.1	< 11.2												
Benzo(ghi)perylene	2016-06	ug/L			< 11.4	< 11.4												
Benzo(ghi)perylene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Benzo(ghi)perylene	2023-01	ug/L															< 10.9	
Benzo(ghi)perylene	2023-03	ug/L															< 10.4	
Benzo(k)fluoranthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Benzo(k)fluoranthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Benzo(k)fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Benzo(k)fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Benzo(k)fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Benzo(k)fluoranthene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Benzo(k)fluoranthene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Benzo(k)fluoranthene	2016-03	ug/L			< 11.1	< 11.2												
Benzo(k)fluoranthene	2016-06	ug/L			< 11.4	< 11.4												
Benzo(k)fluoranthene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Benzo(k)fluoranthene	2023-01	ug/L															< 10.9	
Benzo(k)fluoranthene	2023-03	ug/L															< 10.4	
Benzyl Alcohol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Benzyl Alcohol	2009-03	ug/L	< 10	< 10	**1.19 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**1.51 J**
Benzyl Alcohol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Benzyl Alcohol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Benzyl Alcohol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Benzyl Alcohol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Benzyl Alcohol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Benzyl Alcohol	2011-09	ug/L																
Benzyl Alcohol	2012-03	ug/L			< 10.0													< 10.0
Benzyl Alcohol	2012-09	ug/L			< 10.0													< 10.0
Benzyl Alcohol	2013-03	ug/L																< 10.2
Benzyl Alcohol	2013-05	ug/L			< 11.2													
Benzyl Alcohol	2013-09	ug/L			< 10.2													< 10.2
Benzyl Alcohol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Benzyl Alcohol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Benzyl Alcohol	2016-03	ug/L			< 11.1	< 11.2												
Benzyl Alcohol	2016-06	ug/L			< 11.4	< 11.4												
Benzyl Alcohol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Benzyl Alcohol	2023-01	ug/L															< 10.9	
Benzyl Alcohol	2023-03	ug/L															< 10.4	
Beryllium	2008-08	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Beryllium	2009-03	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Beryllium	2009-07	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Benzo(b)fluoranthene	2023-03	ug/L					< 10			< 10							
Benzo(ghi)perylene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Benzo(ghi)perylene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Benzo(ghi)perylene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Benzo(ghi)perylene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	**0.484 J**	< 10.0	< 10.0								
Benzo(ghi)perylene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzo(ghi)perylene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Benzo(ghi)perylene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Benzo(ghi)perylene	2011-09	ug/L					< 10.0										
Benzo(ghi)perylene	2012-03	ug/L					< 10.0										
Benzo(ghi)perylene	2012-09	ug/L					< 10.0										
Benzo(ghi)perylene	2013-03	ug/L					< 11.8										
Benzo(ghi)perylene	2013-09	ug/L					< 10.6										
Benzo(ghi)perylene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Benzo(ghi)perylene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Benzo(ghi)perylene	2016-03	ug/L					< 10.9			< 11.2							
Benzo(ghi)perylene	2016-06	ug/L															
Benzo(ghi)perylene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Benzo(ghi)perylene	2023-01	ug/L															
Benzo(ghi)perylene	2023-03	ug/L					< 10			< 10							
Benzo(k)fluoranthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Benzo(k)fluoranthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Benzo(k)fluoranthene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Benzo(k)fluoranthene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzo(k)fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzo(k)fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Benzo(k)fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Benzo(k)fluoranthene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Benzo(k)fluoranthene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Benzo(k)fluoranthene	2016-03	ug/L					< 10.9			< 11.2							
Benzo(k)fluoranthene	2016-06	ug/L															
Benzo(k)fluoranthene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Benzo(k)fluoranthene	2023-01	ug/L															
Benzo(k)fluoranthene	2023-03	ug/L					< 10			< 10							
Benzyl Alcohol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Benzyl Alcohol	2009-03	ug/L	**1.17 J**	< 10	< 10	< 10	< 10	**1.39 J**	**1.3 J**								
Benzyl Alcohol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Benzyl Alcohol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzyl Alcohol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Benzyl Alcohol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Benzyl Alcohol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Benzyl Alcohol	2011-09	ug/L	< 10.0				< 10.0	< 10.0									
Benzyl Alcohol	2012-03	ug/L	< 10.0				< 10.0	< 10.0	< 10.0								
Benzyl Alcohol	2012-09	ug/L	< 10.0				< 10.0	< 10.0	< 10.0								
Benzyl Alcohol	2013-03	ug/L	< 10.2				< 11.8	< 11.1	< 10								
Benzyl Alcohol	2013-05	ug/L															
Benzyl Alcohol	2013-09	ug/L	< 10.4					< 10.1	< 11.2								
Benzyl Alcohol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Benzyl Alcohol	2015-10	ug/L	< 11.8		< 10.3					< 11							
Benzyl Alcohol	2016-03	ug/L					< 10.9			< 11.2							
Benzyl Alcohol	2016-06	ug/L															
Benzyl Alcohol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Benzyl Alcohol	2023-01	ug/L															
Benzyl Alcohol	2023-03	ug/L					< 10			< 10							
Beryllium	2008-08	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004								
Beryllium	2009-03	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004								
Beryllium	2009-07	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Beryllium	2009-09	mg/L	< 0.001	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2010-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2010-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2011-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2011-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2012-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2012-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2013-03	mg/L	< 0.00100	< 0.001		< 0.00100	< 0.00100		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00100	< 0.00100	< 0.001	< 0.001
Beryllium	2013-05	mg/L			< 0.00100			< 0.00100										
Beryllium	2013-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2013-11	mg/L																
Beryllium	2014-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2014-06	mg/L																
Beryllium	2014-09	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2015-03	mg/L	< 0.001	**0.000091 J**	< 0.00100	< 0.00100	< 0.00100	**0.0000400 J**	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.001	< 0.00100
Beryllium	2015-09	mg/L	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001			< 0.001	**0.000048 J**	< 0.001	**0.000039 J**		< 0.001	< 0.001	
Beryllium	2015-10	mg/L			< 0.001				< 0.001	< 0.001					< 0.001			< 0.001
Beryllium	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2016-06	mg/L			< 0.001	< 0.001												
Beryllium	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.00105**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2017-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2017-11	mg/L																
Beryllium	2018-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2018-06	mg/L																
Beryllium	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2018-09	mg/L					< 0.001						< 0.001	< 0.001				
Beryllium	2018-11	mg/L																
Beryllium	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2020-03	mg/L	< 0.001	< 0.001	< 0.001			< 0.001		< 0.001	< 0.004	< 0.001	< 0.001	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2020-04	mg/L				< 0.001	< 0.001		< 0.001									
Beryllium	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2021-03	mg/L							< 0.001	< 0.001	< 0.001	< 0.001						
Beryllium	2021-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2022-03	mg/L							< 0.001	< 0.004	< 0.001	< 0.001						
Beryllium	2022-08	mg/L	< 0.001 J	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2023-01	mg/L															< 0.001	
Beryllium	2023-03	mg/L							< 0.001	< 0.001	< 0.001	< 0.001					< 0.001	
Beryllium	2023-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2024-03	mg/L							< 0.001	< 0.001	< 0.001	< 0.001						
Beryllium	2024-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
beta-BHC	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
beta-BHC	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
beta-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
beta-BHC	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
beta-BHC	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
beta-BHC	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
beta-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	**0.0358**	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
beta-BHC	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
beta-BHC	2011-09	ug/L							< 0.0320									
beta-BHC	2012-03	ug/L							< 0.0320									
beta-BHC	2012-09	ug/L							< 0.0320									
beta-BHC	2013-03	ug/L							**0.00786 J**									
beta-BHC	2013-09	ug/L							< 0.0320									
beta-BHC	2014-03	ug/L							**0.0162 J**									
beta-BHC	2014-09	ug/L							**0.00884 J**									

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Beryllium	2009-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100									
Beryllium	2010-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2010-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2011-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2011-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2012-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2012-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2013-03	mg/L	< 0.001	< 0.001	< 0.00100		< 0.00100	< 0.001	< 0.001								
Beryllium	2013-05	mg/L															
Beryllium	2013-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	**~~0.000348 J~~**	< 0.00100	**0.000637 J**	< 0.00100	< 0.00100	**0.000330 J**		
Beryllium	2013-11	mg/L								~~< 0.00100~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Beryllium	2014-03	mg/L	< 0.00100	< 0.00100	< 0.00100	**0.00162**	< 0.00100	< 0.00100	< 0.00100	~~< 0.00100~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Beryllium	2014-06	mg/L								~~< 0.00100~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Beryllium	2014-09	mg/L	< 0.001	**0.000045 J**	< 0.001	**0.000052 J**	< 0.001	< 0.001	< 0.001	~~< 0.001~~	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Beryllium	2015-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.001	**0.000044 J**	< 0.001	**0.0000410 J**	< 0.00100	< 0.00100	**0.0000640 J**	< 0.00100	< 0.00100		
Beryllium	2015-09	mg/L		< 0.001		< 0.001	< 0.001	< 0.001	< 0.001								
Beryllium	2015-10	mg/L	< 0.001		< 0.001					< 0.001	< 0.001	**0.000048 J**	< 0.001	< 0.001	< 0.001		
Beryllium	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Beryllium	2016-06	mg/L															
Beryllium	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Beryllium	2017-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Beryllium	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Beryllium	2017-11	mg/L														< 0.001	< 0.001
Beryllium	2018-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2018-06	mg/L														< 0.001	< 0.001
Beryllium	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001			
Beryllium	2018-09	mg/L													< 0.001	< 0.001	< 0.001
Beryllium	2018-11	mg/L														< 0.001	< 0.001
Beryllium	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2020-03	mg/L	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001
Beryllium	2020-04	mg/L			< 0.001									< 0.001			
Beryllium	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Beryllium	2021-03	mg/L		< 0.001			< 0.001			< 0.001							
Beryllium	2021-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Beryllium	2022-03	mg/L		< 0.004			< 0.001			< 0.001							
Beryllium	2022-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Beryllium	2023-01	mg/L															
Beryllium	2023-03	mg/L		< 0.001			< 0.001			< 0.001							
Beryllium	2023-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Beryllium	2024-03	mg/L		< 0.001			< 0.001			< 0.001							
Beryllium	2024-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
beta-BHC	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
beta-BHC	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
beta-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
beta-BHC	2009-07	ug/L					< 0.0320		< 0.0320								
beta-BHC	2009-09	ug/L					< 0.0320		< 0.0320								
beta-BHC	2010-03	ug/L					< 0.0320		< 0.0320								
beta-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
beta-BHC	2011-03	ug/L					< 0.0320										
beta-BHC	2011-09	ug/L					< 0.0320										
beta-BHC	2012-03	ug/L					< 0.0320		< 0.0320								
beta-BHC	2012-09	ug/L															
beta-BHC	2013-03	ug/L					< 0.0333										
beta-BHC	2013-09	ug/L															
beta-BHC	2014-03	ug/L					< 0.0348										
beta-BHC	2014-09	ug/L					< 0.032										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
beta-BHC	2015-03	ug/L							< 0.0320									
beta-BHC	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			**0.0102 J**	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
beta-BHC	2015-10	ug/L							**0.00941 J**	**0.0079 J**					< 0.0386			< 0.0368
beta-BHC	2016-03	ug/L			< 0.032	< 0.0356			**0.0379**									
beta-BHC	2016-06	ug/L			< 0.0364	**0.00577 J**												
beta-BHC	2016-08	ug/L							**0.0156 J**									
beta-BHC	2017-03	ug/L							**0.00963 J**									
beta-BHC	2017-08	ug/L							< 0.0356									
beta-BHC	2018-03	ug/L							< 0.0344									
beta-BHC	2018-08	ug/L							**0.00937 J**									
beta-BHC	2019-03	ug/L							< 0.0356									
beta-BHC	2019-08	ug/L							< 0.0337									
beta-BHC	2020-03	ug/L																
beta-BHC	2020-04	ug/L							< 0.0386									
beta-BHC	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	**0.00634 J**	< 0.0376	< 0.0376	**0.0136 J**	< 0.0416	**0.00739 J**	< 0.0368	< 0.0386	**0.00983 J**	< 0.0395	< 0.039	< 0.0381	< 0.04
beta-BHC	2021-03	ug/L							< 0.0356									
beta-BHC	2021-08	ug/L							< 0.0372									
beta-BHC	2022-03	ug/L							< 0.08									
beta-BHC	2022-08	ug/L							< 0.064									
beta-BHC	2023-01	ug/L															< 0.0727	
beta-BHC	2023-03	ug/L							< 0.064								< 0.0667	
beta-BHC	2023-08	ug/L							< 0.0711									
beta-BHC	2024-03	ug/L							< 0.0696									
beta-BHC	2024-08	ug/L							< 0.064									
bis(2-Chloroethoxy)methane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
bis(2-Chloroethoxy)methane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Chloroethoxy)methane	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
bis(2-Chloroethoxy)methane	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
bis(2-Chloroethoxy)methane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
bis(2-Chloroethoxy)methane	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
bis(2-Chloroethoxy)methane	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
bis(2-Chloroethoxy)methane	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
bis(2-Chloroethoxy)methane	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
bis(2-Chloroethoxy)methane	2016-03	ug/L			< 11.1	< 11.2												
bis(2-Chloroethoxy)methane	2016-06	ug/L			< 11.4	< 11.4												
bis(2-Chloroethoxy)methane	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
bis(2-Chloroethoxy)methane	2023-01	ug/L															< 10.9	
bis(2-Chloroethoxy)methane	2023-03	ug/L															< 10.4	
bis(2-Chloroethyl)ether	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
bis(2-Chloroethyl)ether	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Chloroethyl)ether	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
bis(2-Chloroethyl)ether	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
bis(2-Chloroethyl)ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
bis(2-Chloroethyl)ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
bis(2-Chloroethyl)ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
bis(2-Chloroethyl)ether	2011-09	ug/L																
bis(2-Chloroethyl)ether	2012-03	ug/L																
bis(2-Chloroethyl)ether	2012-09	ug/L																
bis(2-Chloroethyl)ether	2013-03	ug/L																
bis(2-Chloroethyl)ether	2013-09	ug/L																
bis(2-Chloroethyl)ether	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
bis(2-Chloroethyl)ether	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
bis(2-Chloroethyl)ether	2016-03	ug/L			< 11.1	< 11.2												
bis(2-Chloroethyl)ether	2016-06	ug/L			< 11.4	< 11.4												
bis(2-Chloroethyl)ether	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
bis(2-Chloroethyl)ether	2023-01	ug/L															< 10.9	
bis(2-Chloroethyl)ether	2023-03	ug/L															< 10.4	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
beta-BHC	2015-03	ug/L					< 0.036										
beta-BHC	2015-09	ug/L		**0.0257 J**		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
beta-BHC	2015-10	ug/L	< 0.0372		**0.00728 J**					< 0.0372							
beta-BHC	2016-03	ug/L					**0.00996 J**			< 0.0356							
beta-BHC	2016-06	ug/L															
beta-BHC	2016-08	ug/L					< 0.0356			< 0.0356							
beta-BHC	2017-03	ug/L					< 0.0337			< 0.0372							
beta-BHC	2017-08	ug/L					< 0.0356			< 0.0356							
beta-BHC	2018-03	ug/L					< 0.0444			< 0.0372							
beta-BHC	2018-08	ug/L					< 0.0451			< 0.0381							
beta-BHC	2019-03	ug/L					< 0.039			< 0.0395							
beta-BHC	2019-08	ug/L					< 0.0346			< 0.034							
beta-BHC	2020-03	ug/L					< 0.0427			< 0.0376							
beta-BHC	2020-04	ug/L															
beta-BHC	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
beta-BHC	2021-03	ug/L					< 0.041			< 0.0381							
beta-BHC	2021-08	ug/L					< 0.04			< 0.0368							
beta-BHC	2022-03	ug/L					< 0.064			< 0.08							
beta-BHC	2022-08	ug/L					< 0.0667		< 0.064	< 0.0604							
beta-BHC	2023-01	ug/L															
beta-BHC	2023-03	ug/L					< 0.0696			< 0.064							
beta-BHC	2023-08	ug/L					< 0.0604			< 0.0711							
beta-BHC	2024-03	ug/L					< 0.0681			< 0.0681							
beta-BHC	2024-08	ug/L					< 0.064			< 0.0696							
bis(2-Chloroethoxy)methane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
bis(2-Chloroethoxy)methane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
bis(2-Chloroethoxy)methane	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
bis(2-Chloroethoxy)methane	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethoxy)methane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethoxy)methane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
bis(2-Chloroethoxy)methane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
bis(2-Chloroethoxy)methane	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
bis(2-Chloroethoxy)methane	2015-10	ug/L	< 11.8		< 10.3					< 11							
bis(2-Chloroethoxy)methane	2016-03	ug/L					< 10.9			< 11.2							
bis(2-Chloroethoxy)methane	2016-06	ug/L															
bis(2-Chloroethoxy)methane	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
bis(2-Chloroethoxy)methane	2023-01	ug/L															
bis(2-Chloroethoxy)methane	2023-03	ug/L					< 10			< 10							
bis(2-Chloroethyl)ether	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
bis(2-Chloroethyl)ether	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
bis(2-Chloroethyl)ether	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
bis(2-Chloroethyl)ether	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethyl)ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethyl)ether	2010-09	ug/L	< 10.0	**0.324 J**	< 10.0	< 10.0	< 10.0										
bis(2-Chloroethyl)ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
bis(2-Chloroethyl)ether	2011-09	ug/L		< 10.0			< 10.0										
bis(2-Chloroethyl)ether	2012-03	ug/L		**0.191 J**			< 10.0										
bis(2-Chloroethyl)ether	2012-09	ug/L		< 10.0			< 10.0										
bis(2-Chloroethyl)ether	2013-03	ug/L		< 10.5			< 11.8										
bis(2-Chloroethyl)ether	2013-09	ug/L		< 10.1													
bis(2-Chloroethyl)ether	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
bis(2-Chloroethyl)ether	2015-10	ug/L	< 11.8		< 10.3					< 11							
bis(2-Chloroethyl)ether	2016-03	ug/L					< 10.9			< 11.2							
bis(2-Chloroethyl)ether	2016-06	ug/L															
bis(2-Chloroethyl)ether	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
bis(2-Chloroethyl)ether	2023-01	ug/L															
bis(2-Chloroethyl)ether	2023-03	ug/L					< 10			< 10							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
bis(2-Ethylhexyl)phthalate	2008-08	ug/L	**3.9 J**	**7.2 J**	**3.47 J**	**12.9**	< 10	**10.3**	< 10	< 10	< 11.1	< 10	< 10	< 10	**2.47 J**	**14.9**	**28**	< 10
bis(2-Ethylhexyl)phthalate	2009-03	ug/L	**17**	**29.1**	**23.5**	< 10	**6.03 J**	**13.7**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**6.89 J**	< 10	< 10
bis(2-Ethylhexyl)phthalate	2009-07	ug/L	**6.99 J**	**5.83 J**	**18.0**	**11.6**		**5.14 J**		< 10			**0.385 J**		< 10	**6.65 J**	**1.14 J**	**0.512 J**
bis(2-Ethylhexyl)phthalate	2009-09	ug/L	< 10	**23.0**	**11.6**	< 10.0		**26.9**		**0.445 J**			**0.578 J**		< 10	**3.03 J**	**28**	**1.23 J**
bis(2-Ethylhexyl)phthalate	2010-03	ug/L	< 10.0	**0.415 J**	**0.419 J**	**0.552 J**	**1.64 J**	< 10.0		< 10.0			< 10.0		**0.458 J**	**3.66 J**	**1.68 J**	**1.10 J**
bis(2-Ethylhexyl)phthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	**1.30 J**	**1.04 J**	
bis(2-Ethylhexyl)phthalate	2011-03	ug/L	< 10.0 UJ	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	**0.489 J**		< 10.0	**0.681 J**	**0.960 J**	
bis(2-Ethylhexyl)phthalate	2011-09	ug/L	< 10.0	< 10.0				< 10.0		< 10.0			< 10.0		< 10.0	**1.76 J**	< 10.0	
bis(2-Ethylhexyl)phthalate	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	**1.21 J**	**0.885 J**	**0.568 J**
bis(2-Ethylhexyl)phthalate	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			**1.58 J**		< 10.0	**1.50 J**	**0.689 J**	**0.823 J**
bis(2-Ethylhexyl)phthalate	2013-03	ug/L	< 10.9 J	< 10.2 J		< 11.0 J	< 11.0 J			**0.904 J**			< 10.5 J		< 10.5 J	< 11.0 J	< 10.6 J	< 10.2 J
bis(2-Ethylhexyl)phthalate	2013-05	ug/L			< 11.2 J			< 10.2 J										
bis(2-Ethylhexyl)phthalate	2013-09	ug/L	< 11.0	< 10.2	< 10.2	**0.489 J**	**0.507 J**	< 10.2 J		< 10.4 J			< 10.3		< 11.4	< 11.2 J	< 12.8 J	< 10.2 J
bis(2-Ethylhexyl)phthalate	2014-03	ug/L	< 10.3	< 10.4				< 10.2								**13.7**	**0.684 J**	
bis(2-Ethylhexyl)phthalate	2014-09	ug/L	< 10.2	< 10				< 10								**1.97 J**	< 10	
bis(2-Ethylhexyl)phthalate	2015-03	ug/L	< 11.1 J	< 11 J				< 11.2								< 11 J	< 10.9 J	
bis(2-Ethylhexyl)phthalate	2015-09	ug/L	< 11.4 J	< 11.1 J			< 11.1 J	< 11.6 J			< 10.9 J	**11.1**	< 10.9 J	< 11.2 J		< 11.4 J	< 10.5 J	
bis(2-Ethylhexyl)phthalate	2015-10	ug/L							< 10.4 J	< 10.5 J					< 11.8 J			< 11.8 J
bis(2-Ethylhexyl)phthalate	2016-03	ug/L	< 11.1 J	< 11 J	< 11.1 J	**11.9**		< 11.1 J				< 10.6 J				< 10.3 J	< 11.2 J	
bis(2-Ethylhexyl)phthalate	2016-06	ug/L			< 11.4	< 11.4												
bis(2-Ethylhexyl)phthalate	2016-08	ug/L	< 11.2	< 10.4	< 11.2	< 11.4		< 11.4				< 11.4				< 11	< 11.1	
bis(2-Ethylhexyl)phthalate	2017-03	ug/L	< 10.4	< 10.3	< 10.5	< 10.3		< 10.4				< 11.1				< 10.5	< 10.5	
bis(2-Ethylhexyl)phthalate	2017-08	ug/L	< 11.1	< 10.5	< 10.5	< 11.1		< 11.1				< 11.1				**0.699 J**	< 11.1	
bis(2-Ethylhexyl)phthalate	2018-03	ug/L	< 11.5	< 11.6	< 11.8	< 12		**3.45 J**				< 11				< 15.5	< 11.5	
bis(2-Ethylhexyl)phthalate	2018-08	ug/L	< 11	< 12	< 11	< 11		< 11.4				< 11.4				< 11.1	< 11.1	
bis(2-Ethylhexyl)phthalate	2019-03	ug/L	< 11.8	< 11.4	< 11.6	< 10.5		< 10.9				< 11				< 11.2	< 11.8	
bis(2-Ethylhexyl)phthalate	2019-08	ug/L	< 10.6	< 10.6	< 10.6	< 10.8		< 10.6				< 10.8				**2.72 J**	< 10.8	
bis(2-Ethylhexyl)phthalate	2020-03	ug/L	< 11.1	< 11.2	< 11.1			< 10.8				< 10.9				< 10.8	< 10.9	
bis(2-Ethylhexyl)phthalate	2020-04	ug/L				< 10.9												
bis(2-Ethylhexyl)phthalate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
bis(2-Ethylhexyl)phthalate	2021-03	ug/L										< 12.3						
bis(2-Ethylhexyl)phthalate	2021-08	ug/L	< 11.4	< 11.9	< 11.9	< 11.9		< 11.8				< 11.6				< 11.9	< 12	
bis(2-Ethylhexyl)phthalate	2022-03	ug/L										< 11.9						
bis(2-Ethylhexyl)phthalate	2022-08	ug/L	< 10.2	< 10.2	< 10.4	< 10.4						< 10				< 11.1		
bis(2-Ethylhexyl)phthalate	2023-01	ug/L															< 10.9	
bis(2-Ethylhexyl)phthalate	2023-03	ug/L										**7.09 J**					< 10.4	
bis(2-Ethylhexyl)phthalate	2023-08	ug/L	< 10.2	< 11.6	< 9.43	< 10.4						< 10				< 9.8	< 9.43	
bis(2-Ethylhexyl)phthalate	2024-03	ug/L										< 10						
bis(2-Ethylhexyl)phthalate	2024-08	ug/L	< 10	< 10.9	< 9.62	< 11.9						< 11.4				< 10	< 9.62	
Bromochloromethane	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2009-07	ug/L	< 5	< 5.00		< 5		< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	
Bromochloromethane	2009-09	ug/L	< 5	< 5.00		< 5.00		< 5.00	< 5.00	< 25.0	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	
Bromochloromethane	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2010-09	ug/L	< 5.00	< 5.00	< 5.00			< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	
Bromochloromethane	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 50.0	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2013-03	ug/L	< 5.00	< 5		< 5.00	< 5.00		< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5
Bromochloromethane	2013-05	ug/L			< 5.00			< 5.00										
Bromochloromethane	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2013-11	ug/L																
Bromochloromethane	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2014-06	ug/L																
Bromochloromethane	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2015-03	ug/L	< 5	< 5	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	< 5.00

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
bis(2-Ethylhexyl)phthalate	2008-08	ug/L	**4.98 J**	< 10	**28**	**2.32 J**	< 10	**15.8**	**2.02 J**								
bis(2-Ethylhexyl)phthalate	2009-03	ug/L	**2.95 J**	< 10	**10.2**	< 10	< 10	**7.4 J**	< 10								
bis(2-Ethylhexyl)phthalate	2009-07	ug/L	< 10.0	**9.13 J**	**15.1**	**3.42 J**	< 10.0	< 11.4	**0.920 J**								
bis(2-Ethylhexyl)phthalate	2009-09	ug/L	**17.6**	**11.9**	**20.0**	< 10.0	< 10.0	**29.7**	**1.14 J**								
bis(2-Ethylhexyl)phthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**0.734 J**								
bis(2-Ethylhexyl)phthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	**0.413 J**										
bis(2-Ethylhexyl)phthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
bis(2-Ethylhexyl)phthalate	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
bis(2-Ethylhexyl)phthalate	2012-03	ug/L	< 10.0	< 10.0	< 10.0	**1.88 J**	**0.500 J**	< 10.0	**1.73 J**								
bis(2-Ethylhexyl)phthalate	2012-09	ug/L	**0.566 J**	< 10.0	< 10.0	< 10.0	**0.409 J**	< 10.0	**3.63 J**								
bis(2-Ethylhexyl)phthalate	2013-03	ug/L	< 10.2 J	< 10.5 J	< 10.6 J		< 11.8 J	< 11.1 J	< 10 J								
bis(2-Ethylhexyl)phthalate	2013-05	ug/L															
bis(2-Ethylhexyl)phthalate	2013-09	ug/L	< 10.4	**0.597 J**	**0.532 J**	**0.652 J**	< 10.6 J	< 10.1	< 11.2 J								
bis(2-Ethylhexyl)phthalate	2014-03	ug/L	< 10.2	< 10.2	< 10.9		< 11.2	< 10.4									
bis(2-Ethylhexyl)phthalate	2014-09	ug/L	< 10.2	< 11.1	< 10		< 11	< 10.2									
bis(2-Ethylhexyl)phthalate	2015-03	ug/L	< 10.8	< 10.6	< 10.3		< 11 J	< 10.5 J									
bis(2-Ethylhexyl)phthalate	2015-09	ug/L		< 11 J		< 11.2 J	< 11.6 J	**13.9**	**13.9**								
bis(2-Ethylhexyl)phthalate	2015-10	ug/L	< 11.8 J		< 10.3 J					< 11 J							
bis(2-Ethylhexyl)phthalate	2016-03	ug/L	< 11.2 J	< 10.2 J	< 10 J		< 10.9 J	< 11.9 J	< 10.3 J	< 11.2 J							
bis(2-Ethylhexyl)phthalate	2016-06	ug/L															
bis(2-Ethylhexyl)phthalate	2016-08	ug/L	< 10	< 24.1	< 10		< 11.8	< 10	< 11	< 10.6							
bis(2-Ethylhexyl)phthalate	2017-03	ug/L	< 10.5	< 10.3	< 11		< 10.5	< 10.5	< 10.5	< 10.9							
bis(2-Ethylhexyl)phthalate	2017-08	ug/L	< 11.1	< 10.9	< 10.8 J		< 10.6	< 10.9	< 11.1	< 10.4							
bis(2-Ethylhexyl)phthalate	2018-03	ug/L	< 11.1	< 11.1	< 10.8		< 12.5	< 11.1	< 11.5	< 12.3							
bis(2-Ethylhexyl)phthalate	2018-08	ug/L	< 11.6	< 11	< 11		< 13.2	< 11	< 11	< 10.6							
bis(2-Ethylhexyl)phthalate	2019-03	ug/L	< 11	< 11	< 10.9		< 13	< 11.1	< 11.5	< 11.1							
bis(2-Ethylhexyl)phthalate	2019-08	ug/L	< 10.6	< 10.9	< 10.8		< 10.8	< 10.8	< 10.6	< 10.9							
bis(2-Ethylhexyl)phthalate	2020-03	ug/L	< 10.8	< 10.9			< 13.7	< 11.1	< 11.4	< 12.5							
bis(2-Ethylhexyl)phthalate	2020-04	ug/L			< 10.9												
bis(2-Ethylhexyl)phthalate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
bis(2-Ethylhexyl)phthalate	2021-03	ug/L		< 11.8			< 11.1			< 12.2							
bis(2-Ethylhexyl)phthalate	2021-08	ug/L	< 11.2	< 11.2	< 11.4		< 12.5	< 11.8	< 11	< 10.8							
bis(2-Ethylhexyl)phthalate	2022-03	ug/L		< 11.4			< 10.9			< 11.9							
bis(2-Ethylhexyl)phthalate	2022-08	ug/L	< 10.9	< 10.6	< 10		< 10.4	< 10.4	< 10.4	< 10							
bis(2-Ethylhexyl)phthalate	2023-01	ug/L															
bis(2-Ethylhexyl)phthalate	2023-03	ug/L		**7.57 J**			< 10			< 10							
bis(2-Ethylhexyl)phthalate	2023-08	ug/L	< 10.2	< 10.4	< 10		< 9.62	< 10.6	< 10.9	< 11.4							
bis(2-Ethylhexyl)phthalate	2024-03	ug/L		< 10.2			< 10.4			< 10.6							
bis(2-Ethylhexyl)phthalate	2024-08	ug/L	< 9.62	< 10	< 10		< 10	< 11.4	< 17.9	< 10.9							
Bromochloromethane	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
Bromochloromethane	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
Bromochloromethane	2009-07	ug/L	< 5.00	< 5	< 5	< 5	< 5.00										
Bromochloromethane	2009-09	ug/L	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00										
Bromochloromethane	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00										
Bromochloromethane	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2013-03	ug/L	< 5	< 5	< 125		< 5.00	< 5	< 5								
Bromochloromethane	2013-05	ug/L															
Bromochloromethane	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromochloromethane	2013-11	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromochloromethane	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromochloromethane	2014-06	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromochloromethane	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
Bromochloromethane	2015-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Bromochloromethane	2015-09	ug/L	< 5	< 5		< 5	< 5	< 5			< 5	< 5	< 5	< 5		< 5	< 5	
Bromochloromethane	2015-10	ug/L			< 5				< 5	< 5					< 5			< 5
Bromochloromethane	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2016-06	ug/L			< 5	< 5												
Bromochloromethane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2017-11	ug/L																
Bromochloromethane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2018-06	ug/L																
Bromochloromethane	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromochloromethane	2018-09	ug/L					< 5						< 5	< 5				
Bromochloromethane	2018-11	ug/L																
Bromochloromethane	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2020-03	ug/L	< 5	< 5	< 5			< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2020-04	ug/L				< 5	< 5		< 5									
Bromochloromethane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2021-03	ug/L							< 5	< 5	< 5	< 5						
Bromochloromethane	2021-08	ug/L	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2022-03	ug/L							< 5	< 5	< 5	< 5						
Bromochloromethane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2023-01	ug/L															< 5	
Bromochloromethane	2023-03	ug/L							< 5	< 5	< 5	< 5					< 5	
Bromochloromethane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2024-03	ug/L							< 5	< 5	< 5	< 5						
Bromochloromethane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Bromodichloromethane	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Bromodichloromethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
Bromodichloromethane	2013-05	ug/L			< 1.00			< 1.00										
Bromodichloromethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2013-11	ug/L																
Bromodichloromethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2014-06	ug/L																
Bromodichloromethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
Bromodichloromethane	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Bromodichloromethane	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
Bromodichloromethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2016-06	ug/L			< 1	< 1												
Bromodichloromethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2017-11	ug/L																
Bromodichloromethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2018-06	ug/L																
Bromodichloromethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Bromodichloromethane	2018-09	ug/L					< 1						< 1	< 1				

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Bromochloromethane	2015-09	ug/L		< 5		< 5	< 5	< 5	< 5								
Bromochloromethane	2015-10	ug/L	< 5		< 5					< 5	< 5	< 5	< 5	< 5	< 5		
Bromochloromethane	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Bromochloromethane	2016-06	ug/L															
Bromochloromethane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Bromochloromethane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Bromochloromethane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Bromochloromethane	2017-11	ug/L														< 5	< 5
Bromochloromethane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2018-06	ug/L														< 5	< 5
Bromochloromethane	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5			
Bromochloromethane	2018-09	ug/L													< 5	< 5	< 5
Bromochloromethane	2018-11	ug/L														< 5	< 5
Bromochloromethane	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2020-03	ug/L	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5
Bromochloromethane	2020-04	ug/L			< 5									< 5			
Bromochloromethane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromochloromethane	2021-03	ug/L		< 5			< 5			< 5							
Bromochloromethane	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromochloromethane	2022-03	ug/L		< 5			< 5			< 5							
Bromochloromethane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromochloromethane	2023-01	ug/L															
Bromochloromethane	2023-03	ug/L		< 5			< 5			< 5							
Bromochloromethane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromochloromethane	2024-03	ug/L		< 5			< 5			< 5							
Bromochloromethane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromodichloromethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Bromodichloromethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Bromodichloromethane	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Bromodichloromethane	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Bromodichloromethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
Bromodichloromethane	2013-05	ug/L															
Bromodichloromethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Bromodichloromethane	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
Bromodichloromethane	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
Bromodichloromethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Bromodichloromethane	2016-06	ug/L															
Bromodichloromethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Bromodichloromethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Bromodichloromethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Bromodichloromethane	2017-11	ug/L														< 1	< 1
Bromodichloromethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2018-06	ug/L														< 1	< 1
Bromodichloromethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
Bromodichloromethane	2018-09	ug/L													< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Bromodichloromethane	2018-11	ug/L																
Bromodichloromethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2020-04	ug/L				< 1	< 1		< 1									
Bromodichloromethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2021-03	ug/L							< 1	< 1	< 1	< 1						
Bromodichloromethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2022-03	ug/L							< 1	< 1	< 1	< 1						
Bromodichloromethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2023-01	ug/L															< 1	
Bromodichloromethane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
Bromodichloromethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2024-03	ug/L							< 1	< 1	< 1	< 1						
Bromodichloromethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2009-07	ug/L	< 5	< 5.00		< 5		< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	
Bromoform	2009-09	ug/L	< 5	< 5.00		< 5.00		< 5.00	< 5.00	< 25.0	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	
Bromoform	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 50.0	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2013-03	ug/L	< 5.00	< 5		< 5.00	< 5.00		< 5	< 5	< 5	< 5	< 5	< 5 J	< 5.00	< 5.00	< 5	< 5 J
Bromoform	2013-05	ug/L			**0.224 J**			< 5.00										
Bromoform	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2013-11	ug/L																
Bromoform	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2014-06	ug/L																
Bromoform	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2015-03	ug/L	< 5	< 5	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	< 5.00
Bromoform	2015-09	ug/L	< 5	< 5		< 5	< 5	< 5			< 5	< 5	< 5	< 5		< 5	< 5	
Bromoform	2015-10	ug/L			< 5				< 5	< 5					< 5			< 5
Bromoform	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2016-06	ug/L			< 5	< 5												
Bromoform	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2017-11	ug/L																
Bromoform	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2018-06	ug/L																
Bromoform	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromoform	2018-09	ug/L					< 5						< 5	< 5				
Bromoform	2018-11	ug/L																
Bromoform	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2020-03	ug/L	< 5	< 5	< 5			< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2020-04	ug/L				< 5	< 5		< 5									
Bromoform	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2021-03	ug/L							< 5	< 5	< 5	< 5						
Bromoform	2021-08	ug/L	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2022-03	ug/L							< 5	< 5	< 5	< 5						
Bromoform	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2023-01	ug/L															< 5	
Bromoform	2023-03	ug/L							< 5	< 5	< 5	< 5					< 5	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Bromodichloromethane	2018-11	ug/L														< 1	< 1
Bromodichloromethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Bromodichloromethane	2020-04	ug/L			< 1									< 1			
Bromodichloromethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Bromodichloromethane	2021-03	ug/L		< 1			< 1			< 1							
Bromodichloromethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Bromodichloromethane	2022-03	ug/L		< 1			< 1			< 1							
Bromodichloromethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Bromodichloromethane	2023-01	ug/L															
Bromodichloromethane	2023-03	ug/L		< 1			< 1			< 1							
Bromodichloromethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Bromodichloromethane	2024-03	ug/L		< 1			< 1			< 1							
Bromodichloromethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Bromoform	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
Bromoform	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
Bromoform	2009-07	ug/L	< 5.00	< 5	< 5	< 5	< 5.00										
Bromoform	2009-09	ug/L	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00										
Bromoform	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromoform	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromoform	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromoform	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromoform	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromoform	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Bromoform	2013-03	ug/L	< 5 J	< 5	< 125		< 5.00	< 5	< 5 J								
Bromoform	2013-05	ug/L															
Bromoform	2013-09	ug/L	< 5.00	< 5.00	< 50.0	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2013-11	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2014-06	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
Bromoform	2015-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2015-09	ug/L		< 5		< 5	< 5	< 5	< 5								
Bromoform	2015-10	ug/L	< 5		< 5					< 5	< 5	< 5	< 5	< 5	< 5		
Bromoform	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Bromoform	2016-06	ug/L															
Bromoform	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Bromoform	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Bromoform	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Bromoform	2017-11	ug/L														< 5	< 5
Bromoform	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2018-06	ug/L														< 5	< 5
Bromoform	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5			
Bromoform	2018-09	ug/L													< 5	< 5	< 5
Bromoform	2018-11	ug/L														< 5	< 5
Bromoform	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2020-03	ug/L	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5
Bromoform	2020-04	ug/L			< 5									< 5			
Bromoform	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromoform	2021-03	ug/L		< 5			< 5			< 5							
Bromoform	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromoform	2022-03	ug/L		< 5			< 5			< 5							
Bromoform	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromoform	2023-01	ug/L															
Bromoform	2023-03	ug/L		< 5			< 5			< 5							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Bromoform	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2024-03	ug/L							< 5	< 5	< 5	< 5						
Bromoform	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2009-07	ug/L	< 4	< 4.00		< 4		< 4	< 4	< 4	< 4	< 4	< 4.00	< 4.00	< 4	< 4	< 4	
Bromomethane	2009-09	ug/L	< 4	< 4.00		< 4.00		< 4.00	< 4.00	< 20.0	< 4.00	< 4	< 4	< 4	< 4	< 4	< 4	
Bromomethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 40.0	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 10.0	< 4.00	< 4.00	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 4.00	< 4.00	< 10.0	< 10.0
Bromomethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2012-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2013-03	ug/L	< 4.00	< 4		< 4.00	< 4.00		< 4	< 4	< 4	< 4	< 4	< 4	< 4.00	< 4.00	< 4	< 4
Bromomethane	2013-05	ug/L			< 4.00			< 4.00										
Bromomethane	2013-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	**4.03**	**3.96 J**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2013-11	ug/L																
Bromomethane	2014-03	ug/L	**0.303 J**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2014-06	ug/L																
Bromomethane	2014-09	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2015-03	ug/L	< 4	< 4	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4	< 4	< 4.00	< 4.00	< 4	< 4	< 4	< 4.00
Bromomethane	2015-09	ug/L	< 4	< 4		< 4	< 4	< 4			< 4	< 4	< 4	< 4		< 4	< 4	
Bromomethane	2015-10	ug/L			< 4				< 4	< 4					< 4			< 4
Bromomethane	2016-03	ug/L	< 4	**0.24 J**	< 4	< 4 J	< 4 J	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	**0.368 J**	< 4
Bromomethane	2016-06	ug/L			< 4	< 4												
Bromomethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2017-11	ug/L																
Bromomethane	2018-03	ug/L	**0.335 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	**0.318 J**	< 4	< 4	< 4	< 4	< 4
Bromomethane	2018-06	ug/L																
Bromomethane	2018-08	ug/L	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Bromomethane	2018-09	ug/L					< 4						< 4	< 4				
Bromomethane	2018-11	ug/L																
Bromomethane	2019-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2020-03	ug/L	< 4	< 4	< 4			< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2020-04	ug/L				< 4	< 4		< 4									
Bromomethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2021-03	ug/L							< 4	< 4	< 4	< 4						
Bromomethane	2021-08	ug/L	< 4	< 4	< 4	< 4	< 40	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2022-03	ug/L							< 4	< 4	< 4	< 4						
Bromomethane	2022-08	ug/L	< 4	< 4	**3.21 J**	< 4	< 4		< 4	**1.1 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2023-01	ug/L															< 4	
Bromomethane	2023-03	ug/L							< 4	< 4	< 4	< 4					< 4	
Bromomethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2024-03	ug/L							< 4	< 4	< 4	< 4						
Bromomethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Butylbenzylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Butylbenzylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Butylbenzylphthalate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Butylbenzylphthalate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Butylbenzylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Butylbenzylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	**0.570 J**	< 10.0	
Butylbenzylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Butylbenzylphthalate	2011-09	ug/L														< 10.0		
Butylbenzylphthalate	2012-03	ug/L														< 10.0		

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Table 14
Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Bromoform	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromoform	2024-03	ug/L		< 5			< 5			< 5							
Bromoform	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Bromomethane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4								
Bromomethane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4								
Bromomethane	2009-07	ug/L	< 4.00	< 4	< 4	< 4	< 4.00										
Bromomethane	2009-09	ug/L	< 4.00	< 20.0	< 4.00	< 4.00	< 4.00										
Bromomethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Bromomethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Bromomethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Bromomethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Bromomethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Bromomethane	2012-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Bromomethane	2013-03	ug/L	< 4	< 4	< 100		< 4.00	< 4	< 4								
Bromomethane	2013-05	ug/L															
Bromomethane	2013-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Bromomethane	2013-11	ug/L									< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Bromomethane	2014-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Bromomethane	2014-06	ug/L									< 4.00	< 4.00 J	< 4.00	< 4.00	< 4.00		
Bromomethane	2014-09	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4		
Bromomethane	2015-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4	< 4	< 4		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Bromomethane	2015-09	ug/L		< 4		< 4	< 4	< 4	< 4								
Bromomethane	2015-10	ug/L	< 4		< 4					< 4	< 4	< 4	< 4	< 4	< 4		
Bromomethane	2016-03	ug/L	< 4	< 4	< 4	< 4	< 4	**0.252 J**	< 4	< 4	< 4	< 4	< 4	< 4 J	< 4 J		
Bromomethane	2016-06	ug/L															
Bromomethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Bromomethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Bromomethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Bromomethane	2017-11	ug/L														**0.575 J**	**1.08 J**
Bromomethane	2018-03	ug/L	< 4	**0.266 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2018-06	ug/L														< 4	< 4
Bromomethane	2018-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4			
Bromomethane	2018-09	ug/L													< 4	< 4	< 4
Bromomethane	2018-11	ug/L														< 4	< 4
Bromomethane	2019-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2020-03	ug/L	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4
Bromomethane	2020-04	ug/L			< 4									< 4			
Bromomethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Bromomethane	2021-03	ug/L		< 4			< 4			< 4							
Bromomethane	2021-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Bromomethane	2022-03	ug/L		< 4			< 4			< 4							
Bromomethane	2022-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Bromomethane	2023-01	ug/L															
Bromomethane	2023-03	ug/L		< 4			< 4			< 4							
Bromomethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Bromomethane	2024-03	ug/L		< 4			< 4			< 4							
Bromomethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Butylbenzylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Butylbenzylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Butylbenzylphthalate	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Butylbenzylphthalate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Butylbenzylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Butylbenzylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Butylbenzylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**0.699 J**									
Butylbenzylphthalate	2011-09	ug/L					< 10.0	**6.50 J**									
Butylbenzylphthalate	2012-03	ug/L					**0.341 J**	< 10.0									

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Butylbenzylphthalate	2012-09	ug/L														< 10.0		
Butylbenzylphthalate	2013-03	ug/L														< 11.0		
Butylbenzylphthalate	2013-09	ug/L														< 11.2		
Butylbenzylphthalate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Butylbenzylphthalate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Butylbenzylphthalate	2016-03	ug/L			< 11.1	< 11.2												
Butylbenzylphthalate	2016-06	ug/L			< 11.4	< 11.4												
Butylbenzylphthalate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Butylbenzylphthalate	2023-01	ug/L															< 10.9	
Butylbenzylphthalate	2023-03	ug/L															< 10.4	
Cadmium	2008-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	2009-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	2009-07	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	2009-09	mg/L	< 0.0005	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cadmium	2010-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	**0.00133**	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2010-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2011-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2011-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2012-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	**0.000630**	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2012-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	**0.000612**	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2013-03	mg/L	**0.000224 J**	**0.000305 J**		< 0.000500	**0.000221 J**		< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.00182**	**0.000295 J**	< 0.000500	< 0.000500	< 0.0005	**0.000338 J**
Cadmium	2013-05	mg/L			< 0.0100			< 0.0100										
Cadmium	2013-09	mg/L	< 0.000500	< 0.000500	< 0.000500	**0.000352 J**	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	**0.000329 J**	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2013-11	mg/L																
Cadmium	2014-03	mg/L	< 0.000500	< 0.000500	< 0.000500	**0.000277 J**	**0.000102 J**	< 0.000500	< 0.000500	**0.00128**	< 0.000500	**0.0000994 J**	< 0.000500	**0.000108 J**	**0.000123 J**	< 0.000500	< 0.000500	< 0.000500
Cadmium	2014-06	mg/L																
Cadmium	2014-09	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000357 J**	**0.000297 J**	< 0.0005	< 0.0005	**0.000183 J**	< 0.0005	< 0.0005	**0.000117 J**	**0.000149 J**	**0.000112 J**	< 0.0005	**0.000144 J**	< 0.0005
Cadmium	2015-03	mg/L	< 0.0005	**0.000416 J**	**0.000137 J**	**0.000280 J**	**0.000155 J**	< 0.000500	< 0.000500	< 0.000500	< 0.0005	< 0.0005	**0.000291 J**	**0.000179 J**	< 0.0005	< 0.0005	< 0.0005	< 0.000500
Cadmium	2015-09	mg/L	< 0.0005	**0.000171 J**		**0.000214 J**	< 0.0005	< 0.0005			< 0.0005	< 0.0005	**0.000167 J**	**0.000142 J**		< 0.0005	< 0.0005	
Cadmium	2015-10	mg/L			< 0.0005				< 0.0005	< 0.0005					< 0.0005			< 0.0005
Cadmium	2016-03	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.00019 J**	**0.000141 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000055 J**	**0.00014 J**	**0.0001 J**	**0.000068 J**	< 0.0005	< 0.0005	< 0.0005
Cadmium	2016-06	mg/L			< 0.0005	**0.000132 J**												
Cadmium	2016-08	mg/L	**0.000044 J**	**0.00007 J**	**0.000038 J**	**0.000183 J**	**0.000228 J**	< 0.0005	**0.0011**	< 0.0005	< 0.0005	< 0.0005	**0.000168 J**	**0.000202 J**	**0.000159 J**	< 0.0005	< 0.0005	< 0.0005
Cadmium	2017-03	mg/L	< 0.0005	< 0.0005	**0.000075 J**	**0.00018 J**	**0.000379 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000171 J**	**0.000154 J**	**0.000158 J**	< 0.0005	< 0.0005	< 0.0005
Cadmium	2017-08	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000332 J**	**0.000148 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000164 J**	**0.000131 J**	**0.000211 J**	< 0.0005	< 0.0005	< 0.0005
Cadmium	2017-11	mg/L																
Cadmium	2018-03	mg/L	< 0.0005	**0.000126 J**	**0.000047 J**	**0.000045 J**	**0.0001 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000326 J**	**0.00019 J**	**0.000086 J**	< 0.0005	< 0.0005	< 0.0005
Cadmium	2018-06	mg/L																
Cadmium	2018-08	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000186 J**		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			**0.000132 J**	< 0.0005	< 0.0005	< 0.0005
Cadmium	2018-09	mg/L					**0.000166 J**						< 0.0005	**0.00018 J**				
Cadmium	2018-11	mg/L																
Cadmium	2019-03	mg/L	**0.000086 J**	< 0.0005	**0.000152 J**	**0.000231 J**	**0.000121 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000103 J**	**0.000091 J**	**0.000103 J**	< 0.0005	< 0.0005	< 0.0005
Cadmium	2019-08	mg/L	< 0.0001	< 0.0001	**0.000039 J**	**0.000146**	**0.000066 J**	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	**0.000213**	**0.000075 J**	**0.000219**	< 0.0001	< 0.0001	< 0.0001
Cadmium	2020-03	mg/L	< 0.0001	**0.000059 J**	**0.000088 J**			< 0.0001		< 0.0001	< 0.0004	< 0.0001	**0.000122**	**0.00018 J**	**0.000168**	< 0.0001	< 0.0001	< 0.0001
Cadmium	2020-04	mg/L				**0.000275**	**0.000267**		< 0.0001									
Cadmium	2020-08	mg/L	**0.000074 J**	< 0.0001	< 0.0001	**0.000354**	**0.000215**	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	**0.000138**	**0.000117**	**0.000149**	< 0.0001	< 0.0001	< 0.0001
Cadmium	2021-03	mg/L							< 0.0001	< 0.0001	< 0.0001	< 0.0001						
Cadmium	2021-08	mg/L	< 0.0001	**0.00008 J**	**0.000236**	**0.000262**	**0.000116**	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	**0.000283**	**0.00014**	**0.000075 J**	< 0.0001	< 0.0001	< 0.0001
Cadmium	2022-03	mg/L							< 0.0001	< 0.0004	< 0.0001	< 0.0001						
Cadmium	2022-08	mg/L	**0.000112 J**	< 0.0001	< 0.0001	**0.000265**	**0.000067 J**		< 0.0001	< 0.0001	< 0.0001	< 0.0001	**0.000162**	**0.000133**	**0.000204**	< 0.0001	< 0.0001	< 0.0001
Cadmium	2023-01	mg/L															< 0.0001	
Cadmium	2023-03	mg/L							< 0.0001	< 0.0001	**0.000134**	< 0.0001					< 0.0001	
Cadmium	2023-08	mg/L	**0.000191 J**	**0.000111 J**	< 0.0002	**0.000148 J**	**0.000219**		< 0.0002	< 0.0002	< 0.0002	< 0.0002	**0.000141 J**	< 0.0002	**0.000228**	< 0.0002	< 0.0002	< 0.0002
Cadmium	2024-03	mg/L							< 0.0002	< 0.0002	< 0.0002	< 0.0002						
Cadmium	2024-08	mg/L	< 0.0002	**0.000104 J**	< 0.0002	**0.000476**	< 0.0002		< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	**0.000181 J**	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Carbon Disulfide	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.1**	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Butylbenzylphthalate	2012-09	ug/L					< 10.0	< 10.0									
Butylbenzylphthalate	2013-03	ug/L					< 11.8	< 11.1									
Butylbenzylphthalate	2013-09	ug/L					< 10.6	< 10.1									
Butylbenzylphthalate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Butylbenzylphthalate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Butylbenzylphthalate	2016-03	ug/L					< 10.9			< 11.2							
Butylbenzylphthalate	2016-06	ug/L															
Butylbenzylphthalate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Butylbenzylphthalate	2023-01	ug/L															
Butylbenzylphthalate	2023-03	ug/L					< 10			< 10							
Cadmium	2008-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005								
Cadmium	2009-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005								
Cadmium	2009-07	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005								
Cadmium	2009-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500									
Cadmium	2010-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2010-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2011-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2011-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2012-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2012-09	mg/L	< 0.000500	< 0.000500	< 0.000500	**0.000721**	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2013-03	mg/L	< 0.0005	< 0.0005	< 0.000500		< 0.000500	< 0.0005	< 0.0005								
Cadmium	2013-05	mg/L															
Cadmium	2013-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	~~**0.000288 J**~~	< 0.000500	**0.000427 J**	**0.00281**	**0.000410 J**	**0.000272 J**		
Cadmium	2013-11	mg/L								~~**0.000122 J**~~	< 0.000500	< 0.000500	**0.00152**	**0.000458 J**	< 0.000500		
Cadmium	2014-03	mg/L	< 0.000500	< 0.000500	< 0.000500	**0.00192**	< 0.000500	**0.000167 J**	< 0.000500	~~< 0.000500~~	**0.0000793 J**	**0.000115 J**	**0.000843**	**0.000150 J**	**0.000138 J**		
Cadmium	2014-06	mg/L								~~< 0.000500~~	< 0.000500	< 0.000500	**0.00132**	< 0.000500	< 0.000500		
Cadmium	2014-09	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000226 J**	**0.000128 J**	**0.000152 J**	< 0.0005	~~< 0.0005~~	< 0.0005	< 0.0005	**0.000978**	< 0.0005	< 0.0005		
Cadmium	2015-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.0005	**0.000173 J**	< 0.0005	< 0.000500	< 0.000500	< 0.000500	**0.000399 J**	< 0.000500	< 0.000500		
Cadmium	2015-09	mg/L		< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005								
Cadmium	2015-10	mg/L	< 0.0005		< 0.0005					< 0.0005	< 0.0005	< 0.0005	**0.000719**	< 0.0005	< 0.0005		
Cadmium	2016-03	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.00004 J**	**0.000111 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000585**	< 0.0005	**0.000042 J**		
Cadmium	2016-06	mg/L															
Cadmium	2016-08	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000056 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000746**	< 0.0005	**0.000068 J**		
Cadmium	2017-03	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000056 J**	< 0.0005	< 0.0005	**0.000051 J**	< 0.0005	< 0.0005	< 0.0005	**0.000472 J**	< 0.0005	< 0.0005		
Cadmium	2017-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000051 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000665**	< 0.0005	**0.000113 J**		
Cadmium	2017-11	mg/L														< 0.0005	**0.000095 J**
Cadmium	2018-03	mg/L	< 0.0005	**0.000049 J**	< 0.0005	**0.000165 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.00034 J**	< 0.0005	**0.000059 J**	**0.000061 J**	< 0.0005
Cadmium	2018-06	mg/L														< 0.0005	< 0.0005
Cadmium	2018-08	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000078 J**	~~**0.000076 J**~~	< 0.0005	< 0.0005	< 0.0005		< 0.0005	**0.000582**	< 0.0005			
Cadmium	2018-09	mg/L													**0.000108 J**	**0.000306 J**	< 0.0005
Cadmium	2018-11	mg/L														< 0.0005	< 0.0005
Cadmium	2019-03	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	**0.00051**	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cadmium	2019-08	mg/L	< 0.0001	< 0.0001	< 0.0001	**0.000149**	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	**0.000681**	< 0.0001	**0.000092 J**	**0.000111**	**0.000054 J**
Cadmium	2020-03	mg/L	< 0.0001	< 0.0001		**0.000139**	**0.000048 J**	< 0.0001	< 0.0001	< 0.0001	**0.000045 J**	< 0.0001	**0.000584**		**0.000097 J**	**0.00014**	**0.00007 J**
Cadmium	2020-04	mg/L			< 0.0001									< 0.0001			
Cadmium	2020-08	mg/L	< 0.0001	< 0.0001	< 0.0001	**0.000066 J**	< 0.0001	< 0.0001	< 0.0001	< 0.0001			**0.000524**	< 0.0001	**0.000083 J**		**0.000059 J**
Cadmium	2021-03	mg/L		< 0.0001			< 0.0001			< 0.0001							
Cadmium	2021-08	mg/L	< 0.0001	< 0.0001	**0.000067 J**	< 0.0001	**0.000072 J**	< 0.0001	< 0.0001	< 0.0001			**0.000441**	< 0.0001	**0.000203**		< 0.0001
Cadmium	2022-03	mg/L		< 0.0004			**0.000075 J**			< 0.0001							
Cadmium	2022-08	mg/L	< 0.0001	**0.000121**	< 0.0001	**0.00014**	< 0.0001	< 0.0001	< 0.0001	< 0.0001			**0.0004**	< 0.0001	**0.000205**		< 0.0001
Cadmium	2023-01	mg/L															
Cadmium	2023-03	mg/L		< 0.0001			< 0.0001			~~**0.000111**~~							
Cadmium	2023-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002			**0.000168 J**	< 0.0002	**0.000178 J**		< 0.0002
Cadmium	2024-03	mg/L		< 0.0002			< 0.0002			< 0.0002							
Cadmium	2024-08	mg/L	< 0.0002	< 0.0002	< 0.0002	**0.00017 J**	< 0.0002	< 0.0002	< 0.0002	< 0.0002			**0.00014 J**	< 0.0002	**0.000195 J**		< 0.0002
Carbon Disulfide	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Carbon Disulfide	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Carbon Disulfide	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Carbon Disulfide	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Carbon Disulfide	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 1.00	< 1.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 4.00	< 4.00	< 1.00
Carbon Disulfide	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**5.23**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1 J
Carbon Disulfide	2013-05	ug/L			< 1.00			< 1.00 J										
Carbon Disulfide	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2013-11	ug/L																
Carbon Disulfide	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2014-06	ug/L																
Carbon Disulfide	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.15 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
Carbon Disulfide	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Carbon Disulfide	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
Carbon Disulfide	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2016-06	ug/L			< 1	< 1												
Carbon Disulfide	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	**0.244 J**	**0.256 J**	**0.293 J**	**0.222 J**	**0.225 J**	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2017-11	ug/L																
Carbon Disulfide	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.152 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2018-06	ug/L																
Carbon Disulfide	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Carbon Disulfide	2018-09	ug/L					< 1						< 1	< 1				
Carbon Disulfide	2018-11	ug/L																
Carbon Disulfide	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	**0.487 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.505 J**
Carbon Disulfide	2020-04	ug/L				< 1	< 1		< 1									
Carbon Disulfide	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2021-03	ug/L							< 1	< 1	< 1	< 1						
Carbon Disulfide	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2022-03	ug/L							< 1	< 1	< 1	< 1						
Carbon Disulfide	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2023-01	ug/L															< 1	
Carbon Disulfide	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
Carbon Disulfide	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2024-03	ug/L							< 1	< 1	< 1	< 1						
Carbon Disulfide	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2009-07	ug/L	< 2	< 2.00		< 2		< 2	< 2	< 2	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2	
Carbon Tetrachloride	2009-09	ug/L	< 2	< 2.00		< 2.00		< 2.00	< 2.00	< 10.0	< 2.00	< 2	< 2	< 2	< 2	< 2	< 2	
Carbon Tetrachloride	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 4.00	< 4.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 4.00	< 5.00	< 5.00	< 5.00	< 5.00	< 4.00
Carbon Tetrachloride	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2011-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2012-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2012-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2013-03	ug/L	< 2.00	< 2		< 2.00	< 2.00		< 2	< 2	< 2	< 2	< 2	< 2	< 2.00	< 2.00	< 2	< 2
Carbon Tetrachloride	2013-05	ug/L			< 2.00			< 2.00										
Carbon Tetrachloride	2013-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2013-11	ug/L																

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Carbon Disulfide	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Carbon Disulfide	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Carbon Disulfide	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 1.00	< 1.00								
Carbon Disulfide	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2012-09	ug/L	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2013-03	ug/L	**1.12**	< 1 J	< 25.0		< 1.00	< 1	< 1								
Carbon Disulfide	2013-05	ug/L															
Carbon Disulfide	2013-09	ug/L	**0.181 J**	< 1.00	< 10.0	**0.153 J**	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2014-03	ug/L	< 1.00	**0.270 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Carbon Disulfide	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
Carbon Disulfide	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
Carbon Disulfide	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Carbon Disulfide	2016-06	ug/L															
Carbon Disulfide	2016-08	ug/L	< 1	< 1	**0.289 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Carbon Disulfide	2017-03	ug/L	< 1	< 1	< 1	< 1	**0.152 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Carbon Disulfide	2017-08	ug/L	< 1	< 1	**0.351 J**	**0.216 J**	**4.5**	**0.245 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Carbon Disulfide	2017-11	ug/L					< 1									**0.166 J**	**0.151 J**
Carbon Disulfide	2018-03	ug/L	< 1	< 1	< 1	< 1	**0.175 J**	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2018-06	ug/L														< 1	< 1
Carbon Disulfide	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
Carbon Disulfide	2018-09	ug/L													< 1	< 1	< 1
Carbon Disulfide	2018-11	ug/L														< 1	< 1
Carbon Disulfide	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2020-03	ug/L	**0.529 J**	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Carbon Disulfide	2020-04	ug/L			< 1									< 1			
Carbon Disulfide	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Carbon Disulfide	2021-03	ug/L		< 1			< 1			< 1							
Carbon Disulfide	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Carbon Disulfide	2022-03	ug/L		< 1			< 1			< 1							
Carbon Disulfide	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Carbon Disulfide	2023-01	ug/L															
Carbon Disulfide	2023-03	ug/L		< 1			< 1			< 1							
Carbon Disulfide	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Carbon Disulfide	2024-03	ug/L		< 1			< 1			< 1							
Carbon Disulfide	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Carbon Tetrachloride	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Carbon Tetrachloride	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Carbon Tetrachloride	2009-07	ug/L	< 2.00	< 2	< 2	< 2	< 2.00										
Carbon Tetrachloride	2009-09	ug/L	< 2.00	< 10.0	< 2.00	< 2.00	< 2.00										
Carbon Tetrachloride	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 4.00	< 4.00								
Carbon Tetrachloride	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2011-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2012-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2012-09	ug/L	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2013-03	ug/L	< 2	< 2	< 50.0		< 2.00	< 2	< 2								
Carbon Tetrachloride	2013-05	ug/L															
Carbon Tetrachloride	2013-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Carbon Tetrachloride	2013-11	ug/L									< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Carbon Tetrachloride	2014-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2014-06	ug/L																
Carbon Tetrachloride	2014-09	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2015-03	ug/L	< 2	< 2	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2	< 2.00
Carbon Tetrachloride	2015-09	ug/L	< 2	< 2		< 2	< 2	< 2			< 2	< 2	< 2	< 2		< 2	< 2	
Carbon Tetrachloride	2015-10	ug/L			< 2				< 2	< 2					< 2			< 2
Carbon Tetrachloride	2016-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2016-06	ug/L			< 2	< 2												
Carbon Tetrachloride	2016-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2017-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2017-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2017-11	ug/L																
Carbon Tetrachloride	2018-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2018-06	ug/L																
Carbon Tetrachloride	2018-08	ug/L	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
Carbon Tetrachloride	2018-09	ug/L					< 2						< 2	< 2				
Carbon Tetrachloride	2018-11	ug/L																
Carbon Tetrachloride	2019-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2019-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2020-03	ug/L	< 2	< 2	< 2			< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2020-04	ug/L				< 2	< 2		< 2									
Carbon Tetrachloride	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2021-03	ug/L							< 2	< 2	< 2	< 2						
Carbon Tetrachloride	2021-08	ug/L	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2022-03	ug/L							< 2	< 2	< 2	< 2						
Carbon Tetrachloride	2022-08	ug/L	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2023-01	ug/L															< 2	
Carbon Tetrachloride	2023-03	ug/L							< 2	< 2	< 2	< 2					< 2	
Carbon Tetrachloride	2023-08	ug/L	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2024-03	ug/L							< 2	< 2	< 2	< 2						
Carbon Tetrachloride	2024-08	ug/L	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobenzene	2008-08	ug/L	**4.37**	**6.06**	< 1	< 1	< 1	< 1	**9.42**	**5.83**	**1.52**	< 1	< 1	**5.26**	**1.87**	**37**	**4.87**	< 1
Chlorobenzene	2009-03	ug/L	**6.78**	**3.45**	< 1	< 1	< 1	< 1	**2.82**	**4.87**	**1.34**	< 1	< 1	**2.43**	**1.3**	**32.3**	**3.98**	< 1
Chlorobenzene	2009-07	ug/L	**9.11**	**4.41**		< 1		< 1	**6.43**	**5.68**	**1.13**	< 1	< 1.00	**1.77**	< 1	**26.4**	**4.06**	
Chlorobenzene	2009-09	ug/L	**9.17**	**3.58**		< 1.00		< 1.00	**7.63**	**6.15**	< 1.00	< 1	< 1	**1.78**	< 1	**25.6**	**5.49**	
Chlorobenzene	2010-03	ug/L	**1.18**	**3.02**	< 1.00	< 1.00	< 1.00	< 1.00	**6.09**	**5.99**	**1.28**	< 1.00	< 1.00	< 1.00	< 1.00	**36.2**	**2.77**	< 1.00
Chlorobenzene	2010-09	ug/L	**12.1**	**2.66**	< 1.00	< 1.00	< 1.00	< 1.00	**9.25**	**6.91**	**1.38**	< 1.00	< 1.00	**2.80**	< 1.00	**34.2**	**3.50**	< 1.00
Chlorobenzene	2011-03	ug/L	**5.55**	**2.84**	< 1.00	< 1.00	< 10.0	< 1.00	**2.66**	**5.87**	**1.59**	< 1.00	< 1.00	**1.99**	< 1.00	**29.9**	**2.70**	< 1.00
Chlorobenzene	2011-09	ug/L	**8.25**	**2.74**	< 1.00	< 1.00	< 1.00	< 1.00	**3.99**	**7.05**	**1.39**	< 1.00	< 1.00	**2.72**	< 1.00	**30.4**	**2.18**	< 1.00
Chlorobenzene	2012-03	ug/L	**5.00**	**2.81**	< 1.00	< 1.00	< 1.00	< 1.00	**1.94**	**6.44**	**1.33**	< 1.00	< 1.00	**1.82**	< 1.00	**31.2**	**1.89**	< 1.00
Chlorobenzene	2012-09	ug/L	**5.76**	**2.24**	< 1.00	< 1.00	< 1.00	< 1.00	**2.87**	**6.01**	**1.07**	< 1.00	< 1.00	**3.42**	< 1.00	**37.6**	**2.49**	< 1.00
Chlorobenzene	2013-03	ug/L	**3.79**	**1.96**		< 1.00	< 1.00		**2.38**	**5.85**	**2.4**	< 1	< 1	**1.04**	< 1.00	**35.3**	**1.78**	< 1
Chlorobenzene	2013-05	ug/L			< 1.00			< 1.00										
Chlorobenzene	2013-09	ug/L	**11.0**	**2.28**	< 1.00	< 1.00	< 1.00	**0.289 J**	**6.00**	**5.36**	**1.68**	< 1.00	< 1.00	**3.08**	< 1.00	**25.4**	**2.67**	< 1.00
Chlorobenzene	2013-11	ug/L																
Chlorobenzene	2014-03	ug/L	**8.13**	< 1.00	< 1.00	< 1.00	< 1.00	**2.88**	**2.11**	**3.85**	**0.904 J**	< 1.00	< 1.00	**3.73**	**2.31**	**36.9**	< 1.00	< 1.00
Chlorobenzene	2014-06	ug/L																
Chlorobenzene	2014-09	ug/L	**12.5**	**1.92**	< 1	< 1	< 1	**0.236 J**	**6.38**	**5.11**	**1.76**	< 1	< 1	**2.53**	< 1	**26.8**	**1.86**	< 1
Chlorobenzene	2015-03	ug/L	**7.95**	**1.62**	< 1.00	< 1.00	< 1.00	< 1.00	**2.10**	**4.90**	**0.798 J**	< 1	< 1.00	**1.41**	< 1	**28.7**	**0.929 J**	< 1.00
Chlorobenzene	2015-09	ug/L	**5.44**	**1.54**		< 1	< 1	< 1			**2.18**	< 1	< 1	**1.86**		**22.6**	**1.08**	
Chlorobenzene	2015-10	ug/L			< 1				**4.02**	< 1					< 1			< 1
Chlorobenzene	2016-03	ug/L	**9.04**	**1.94**	< 1	< 1	< 1	< 1	**9.55**	**4.64**	**3.1**	< 1	< 1	< 1	< 1	**18.7**	< 1	< 1
Chlorobenzene	2016-06	ug/L			< 1	< 1												
Chlorobenzene	2016-08	ug/L	**10.8**	< 1	< 1	< 1	< 1	< 1	**8.01**	**4.88**	**4.01**	< 1	**0.592 J**	< 1	< 1	**27.4**	< 1	< 1
Chlorobenzene	2017-03	ug/L	**2.12**	**2.32**	< 1	< 1	< 1	< 1	**7.4**	**4.17**	< 1	< 1	< 1	**0.499 J**	< 1	**59.9**	**0.978 J**	< 1
Chlorobenzene	2017-08	ug/L	**5.77**	**1.3**	< 1	< 1	< 1	< 1	**3.54**	**4.16**	**2.59**	< 1	< 1	**1.12**	< 1	**53.1**	**0.757 J**	< 1
Chlorobenzene	2017-11	ug/L																

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Carbon Tetrachloride	2014-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Carbon Tetrachloride	2014-06	ug/L									< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Carbon Tetrachloride	2014-09	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2		
Carbon Tetrachloride	2015-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2	< 2	< 2		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Carbon Tetrachloride	2015-09	ug/L		< 2		< 2	< 2	< 2	< 2								
Carbon Tetrachloride	2015-10	ug/L	< 2		< 2					< 2	< 2	< 2	< 2	< 2	< 2		
Carbon Tetrachloride	2016-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
Carbon Tetrachloride	2016-06	ug/L															
Carbon Tetrachloride	2016-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
Carbon Tetrachloride	2017-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
Carbon Tetrachloride	2017-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
Carbon Tetrachloride	2017-11	ug/L														< 2	< 2
Carbon Tetrachloride	2018-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2018-06	ug/L														< 2	< 2
Carbon Tetrachloride	2018-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2			
Carbon Tetrachloride	2018-09	ug/L													< 2	< 2	< 2
Carbon Tetrachloride	2018-11	ug/L														< 2	< 2
Carbon Tetrachloride	2019-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2019-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2020-03	ug/L	< 2	< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2
Carbon Tetrachloride	2020-04	ug/L			< 2									< 2			
Carbon Tetrachloride	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
Carbon Tetrachloride	2021-03	ug/L		< 2			< 2			< 2							
Carbon Tetrachloride	2021-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
Carbon Tetrachloride	2022-03	ug/L		< 2			< 2			< 2							
Carbon Tetrachloride	2022-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
Carbon Tetrachloride	2023-01	ug/L															
Carbon Tetrachloride	2023-03	ug/L		< 2			< 2			< 2							
Carbon Tetrachloride	2023-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
Carbon Tetrachloride	2024-03	ug/L		< 2			< 2			< 2							
Carbon Tetrachloride	2024-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2		< 2
Chlorobenzene	2008-08	ug/L	< 1	**11.3**	**5.44**	< 1	< 1	< 1	< 1								
Chlorobenzene	2009-03	ug/L	< 1	**11.8**	**3.24**	**1.11**	< 1	< 1	< 1								
Chlorobenzene	2009-07	ug/L	< 1.00	**10.7**	**4.26**	**6.59**	< 1.00										
Chlorobenzene	2009-09	ug/L	< 1.00	**9.55**	**5.75**	< 1.00	< 1.00										
Chlorobenzene	2010-03	ug/L	< 1.00	**14.9**	**7.67**	**1.52**	< 1.00	< 1.00	< 1.00								
Chlorobenzene	2010-09	ug/L	**1.15**	**11.5**	**4.29**	< 1.00	< 1.00	< 1.00	< 1.00								
Chlorobenzene	2011-03	ug/L	< 1.00	**13.1**	**3.17**	< 1.00	< 1.00	< 1.00	< 1.00								
Chlorobenzene	2011-09	ug/L	**1.13**	**11.8**	**3.11**	< 1.00	< 1.00	< 1.00	< 1.00								
Chlorobenzene	2012-03	ug/L	< 1.00	**15.1**	**4.34**	< 1.00	< 1.00	< 1.00	< 1.00								
Chlorobenzene	2012-09	ug/L	< 1.00	**15.4**	**6.93**	< 1.00	< 1.00	**1.29**	< 1.00								
Chlorobenzene	2013-03	ug/L	< 1	**11.5**	< 25.0		< 1.00	**0.535 J**	< 1								
Chlorobenzene	2013-05	ug/L															
Chlorobenzene	2013-09	ug/L	**1.47**	**14.5**	**5.02**	**0.541 J**	< 1.00	**1.43**	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2014-03	ug/L	**0.804 J**	**13.6**	**7.58**	< 1.00	< 1.00	**1.19**	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2014-09	ug/L	**1.5**	**14.2**	**5.13**	**0.35 J**	< 1	**0.468 J**	< 1		< 1	< 1	< 1	< 1	< 1		
Chlorobenzene	2015-03	ug/L	**0.760 J**	**7.98**	**5.10**	< 1.00	< 1	**0.309 J**	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2015-09	ug/L		**9.43**		< 1	< 1	< 1	< 1								
Chlorobenzene	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
Chlorobenzene	2016-03	ug/L	**0.501 J**	**10.4**	**4.29**	**0.621 J**	< 1	**0.595 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Chlorobenzene	2016-06	ug/L															
Chlorobenzene	2016-08	ug/L	< 1	**11.3**	**3.55**	< 1	< 1	**0.451 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Chlorobenzene	2017-03	ug/L	**0.493 J**	**10.1**	**3.5**	**0.728 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Chlorobenzene	2017-08	ug/L	**1.07**	**8.4**	**2.72**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.209 J**		
Chlorobenzene	2017-11	ug/L														< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Chlorobenzene	2018-03	ug/L	**5.31**	**1.64**	< 1	< 1	< 1	< 1	**2.19**	**4.53**	**3.7**	< 1	< 1	**0.286 J**	< 1	**59.8**	**0.617 J**	< 1
Chlorobenzene	2018-06	ug/L																
Chlorobenzene	2018-08	ug/L	**4.11**	**1.57**	< 1	< 1		< 1	**3.45**	**4.56**	**2.58**	< 1			< 1	**26.3**	< 1	< 1
Chlorobenzene	2018-09	ug/L					< 1						**1.81**	< 1				
Chlorobenzene	2018-11	ug/L																
Chlorobenzene	2019-03	ug/L	**1.54**	**1.81**	< 1	< 1	< 1	< 1	**5.21**	**3.97**	< 1	< 1	< 1	< 1	< 1	**52.7**	**0.97 J**	< 1
Chlorobenzene	2019-08	ug/L	**11.1**	**0.468 J**	< 1	< 1	< 1	< 1	**9.14**	**3.7**	**0.956 J**	< 1	< 1	**1.78**	< 1	**58**	**1.62**	< 1
Chlorobenzene	2020-03	ug/L	**1.39**	**2.58**	< 1			< 1		**5.46**	**1.83**	< 1	< 1	**1.19**	< 1	**73.8**	**0.906 J**	< 1
Chlorobenzene	2020-04	ug/L				< 1	< 1		**6.38**									
Chlorobenzene	2020-08	ug/L	**7.47**	**3.12**	< 1	< 1	< 1	< 1	**7.17**	**4.46**	**2.18**	< 1	< 1	**1.46**	< 1	**61.3**	< 1	< 1
Chlorobenzene	2021-03	ug/L							**3.95**	**3.58**	**1.87**	< 1						
Chlorobenzene	2021-08	ug/L	< 1	**1.7**	< 1	< 1	< 10	< 1	**2.37**	**3.93**	**1.61**	< 1	< 1	**1.91**	< 1	**43.6**	**0.514 J**	< 1
Chlorobenzene	2022-03	ug/L							**1.86**	**2.85**	**1.85**	< 1						
Chlorobenzene	2022-08	ug/L	**5.04**	**1.69**	< 1	< 1	< 1		**2.45**	**4**	**1.86**	< 1	< 1	**1.98**	< 1	**53.9**	**0.438 J**	< 1
Chlorobenzene	2023-01	ug/L															< 1	
Chlorobenzene	2023-03	ug/L							**4.12**	**4.31**	**1.75**	< 1					< 1	
Chlorobenzene	2023-08	ug/L	**4.09**	**1.57**	< 1	< 1	< 1		**2.23**	**3.49**	**2.02**	< 1	< 1	**2.14**	< 1	**68**	**0.555 J**	< 1
Chlorobenzene	2024-03	ug/L							< 1	**3.94**	**2.12**	< 1						
Chlorobenzene	2024-08	ug/L	**5.7**	**2.26**	< 1	< 1	< 1		**3.98**	**3.93**	**2.01**	< 1	< 1	**1.03**	< 1	**63**	**0.544 J**	< 1
Chlorobenzilate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Chlorobenzilate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzilate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Chlorobenzilate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Chlorobenzilate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Chlorobenzilate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Chlorobenzilate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Chlorobenzilate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Chlorobenzilate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Chlorobenzilate	2016-03	ug/L			< 11.1	< 11.2												
Chlorobenzilate	2016-06	ug/L			< 11.4	< 11.4												
Chlorobenzilate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Chlorobenzilate	2023-01	ug/L															< 10.9	
Chlorobenzilate	2023-03	ug/L															< 10.4	
Chlorodibromomethane	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2009-07	ug/L	< 5	< 5.00		< 5		< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	
Chlorodibromomethane	2009-09	ug/L	< 5	< 5.00		< 5.00		< 5.00	< 5.00	< 25.0	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	
Chlorodibromomethane	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 5.00	< 5.00	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00
Chlorodibromomethane	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 50.0	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2013-03	ug/L	< 5.00	< 5		< 5.00	< 5.00		< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5
Chlorodibromomethane	2013-05	ug/L			< 5.00			< 5.00										
Chlorodibromomethane	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2013-11	ug/L																
Chlorodibromomethane	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2014-06	ug/L																
Chlorodibromomethane	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2015-03	ug/L	< 5	< 5	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	< 5.00
Chlorodibromomethane	2015-09	ug/L	< 5	< 5		< 5	< 5	< 5			< 5	< 5	< 5	< 5		< 5	< 5	
Chlorodibromomethane	2015-10	ug/L			< 5				< 5	< 5					< 5			< 5
Chlorodibromomethane	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2016-06	ug/L			< 5	< 5												
Chlorodibromomethane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Chlorobenzene	2018-03	ug/L	**0.309 J**	**9.14**	**2.45**	**0.236 J**	< 1	**0.852 J**	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	2018-06	ug/L														< 1	< 1
Chlorobenzene	2018-08	ug/L	< 1	**9.05**	< 1	< 1	< 1	**5.75**	< 1	< 1		< 1	< 1	< 1			
Chlorobenzene	2018-09	ug/L													< 1	< 1	< 1
Chlorobenzene	2018-11	ug/L														< 1	< 1
Chlorobenzene	2019-03	ug/L	**0.565 J**	**4.34**	**3.64**	< 1	< 1	**3.35**	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	2019-08	ug/L	**2.79**	**8.18**	**3.53**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	2020-03	ug/L	**2.26**	**7.68**		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Chlorobenzene	2020-04	ug/L			**2.31**									< 1			
Chlorobenzene	2020-08	ug/L	**3.06**	**8.27**	**3.33**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Chlorobenzene	2021-03	ug/L		**6.12**			< 1			< 1							
Chlorobenzene	2021-08	ug/L	**1.58 J+**	**7.96**	**2.06**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	**1.42**		< 1
Chlorobenzene	2022-03	ug/L		**1.96**			< 1			< 1							
Chlorobenzene	2022-08	ug/L	**0.91 J**	**6.73**	**2.74**	< 1	< 1	**0.911 J**	< 1	< 1			< 1	< 1	< 1		< 1
Chlorobenzene	2023-01	ug/L															
Chlorobenzene	2023-03	ug/L		**8.93**			< 1			< 1							
Chlorobenzene	2023-08	ug/L	< 1	**8.06**	**2.41**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Chlorobenzene	2024-03	ug/L		**14.7**			< 1			< 1							
Chlorobenzene	2024-08	ug/L	< 1	**12**	**2.94**	< 1	< 1	**0.7 J**	< 1	< 1			< 1	< 1	< 1		< 1
Chlorobenzilate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Chlorobenzilate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Chlorobenzilate	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Chlorobenzilate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Chlorobenzilate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Chlorobenzilate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Chlorobenzilate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Chlorobenzilate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Chlorobenzilate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Chlorobenzilate	2016-03	ug/L					< 10.9			< 11.2							
Chlorobenzilate	2016-06	ug/L															
Chlorobenzilate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Chlorobenzilate	2023-01	ug/L															
Chlorobenzilate	2023-03	ug/L					< 10			< 10							
Chlorodibromomethane	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
Chlorodibromomethane	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
Chlorodibromomethane	2009-07	ug/L	< 5.00	< 5	< 5	< 5	< 5.00										
Chlorodibromomethane	2009-09	ug/L	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00										
Chlorodibromomethane	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00	< 5.00								
Chlorodibromomethane	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2013-03	ug/L	< 5	< 5	< 125		< 5.00	< 5	< 5								
Chlorodibromomethane	2013-05	ug/L															
Chlorodibromomethane	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2013-11	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2014-06	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
Chlorodibromomethane	2015-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2015-09	ug/L		< 5		< 5	< 5	< 5	< 5								
Chlorodibromomethane	2015-10	ug/L	< 5		< 5					< 5	< 5	< 5	< 5	< 5	< 5		
Chlorodibromomethane	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Chlorodibromomethane	2016-06	ug/L															
Chlorodibromomethane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Chlorodibromomethane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Chlorodibromomethane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2017-11	ug/L																
Chlorodibromomethane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2018-06	ug/L																
Chlorodibromomethane	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Chlorodibromomethane	2018-09	ug/L					< 5						< 5	< 5				
Chlorodibromomethane	2018-11	ug/L																
Chlorodibromomethane	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2020-03	ug/L	< 5	< 5	< 5			< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2020-04	ug/L				< 5	< 5		< 5									
Chlorodibromomethane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2021-03	ug/L							< 5	< 5	< 5	< 5						
Chlorodibromomethane	2021-08	ug/L	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2022-03	ug/L							< 5	< 5	< 5	< 5						
Chlorodibromomethane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2023-01	ug/L															< 5	
Chlorodibromomethane	2023-03	ug/L							< 5	< 5	< 5	< 5					< 5	
Chlorodibromomethane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2024-03	ug/L							< 5	< 5	< 5	< 5						
Chlorodibromomethane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	**8.5**	< 4	**4.21**	**5.82**	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	**4.84**	< 4	**4.82**	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2009-07	ug/L	< 4	< 4.00		< 4		< 4	**4.45**	**5.34**	**8.89**	**5.52**	< 4.00	< 4.00	< 4	< 4	< 4	
Chloroethane	2009-09	ug/L	< 4	< 4.00		< 4.00		< 4.00	**4.27**	< 20.0	**10.4**	< 4	< 4	< 4	< 4	< 4	< 4	
Chloroethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	**5.56**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	**4.57**	**4.46**	**4.89**	**4.59**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 40.0	< 4.00	< 4.00	**5.80**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	**4.04**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2012-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	**6.72**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2013-03	ug/L	< 4.00	< 4		< 4.00	< 4.00		**1.36 J**	**2.71 J**	**2.15 J**	**1.76 J**	< 4	< 4	< 4.00	**2.06 J**	< 4	**0.623 J**
Chloroethane	2013-05	ug/L			< 4.00			**0.448 J**										
Chloroethane	2013-09	ug/L	< 4.00	**0.442 J**	< 4.00	< 4.00	< 4.00	< 4.00	**2.25 J**	< 4.00	**3.51 J**	**3.10 J**	< 4.00	< 4.00	< 4.00	**1.85 J**	< 4.00	< 4.00
Chloroethane	2013-11	ug/L																
Chloroethane	2014-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	**4.19**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2014-06	ug/L																
Chloroethane	2014-09	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	**2.39 J**	**3.79 J**	**2.82 J**	**1.52 J**	< 4	< 4	< 4	**1.07 J**	< 4	< 4
Chloroethane	2015-03	ug/L	< 4	< 4	< 4.00	< 4.00	< 4.00	< 4.00	**1.40 J**	**2.60 J**	**3.32 J**	< 4	< 4.00	< 4.00	< 4	**0.891 J**	< 4	< 4.00
Chloroethane	2015-09	ug/L	< 4	< 4		< 4	< 4	**0.334 J**			**3.74 J**	**1.29 J**	< 4	< 4		**1.33 J**	< 4	
Chloroethane	2015-10	ug/L			< 4				**1.36 J**	**2.35 J**					< 4			< 4
Chloroethane	2016-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	**2.4 J**	**2.98 J**	**1 J**	**1.18 J**	< 4	< 4	< 4	**1.09 J**	< 4	< 4
Chloroethane	2016-06	ug/L			< 4	< 4												
Chloroethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	**2.16 J**	**3.75 J**	< 4	< 4	< 4	< 4	< 4	**1.63 J**	< 4	< 4
Chloroethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	**1.99 J**	**2.95 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	**2.51 J**	**2.47 J**	**0.997 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2017-11	ug/L																
Chloroethane	2018-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	**1.33 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2018-06	ug/L																
Chloroethane	2018-08	ug/L	< 4	< 4	< 4	< 4		< 4	**2.72 J**	**4.13**	**2.02 J**	< 4			< 4	**0.949 J**	< 4	< 4
Chloroethane	2018-09	ug/L					< 4						< 4	< 4				
Chloroethane	2018-11	ug/L																
Chloroethane	2019-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	**2.09 J**	**2.21 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	**2.23 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2020-03	ug/L	< 4	< 4	< 4			< 4		**3.69 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2020-04	ug/L				< 4	< 4		**1.68 J**									
Chloroethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	**2.91 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Chlorodibromomethane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Chlorodibromomethane	2017-11	ug/L														< 5	< 5
Chlorodibromomethane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2018-06	ug/L														< 5	< 5
Chlorodibromomethane	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5			
Chlorodibromomethane	2018-09	ug/L													< 5	< 5	< 5
Chlorodibromomethane	2018-11	ug/L														< 5	< 5
Chlorodibromomethane	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2020-03	ug/L	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5
Chlorodibromomethane	2020-04	ug/L			< 5									< 5			
Chlorodibromomethane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Chlorodibromomethane	2021-03	ug/L		< 5			< 5			< 5							
Chlorodibromomethane	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Chlorodibromomethane	2022-03	ug/L		< 5			< 5			< 5							
Chlorodibromomethane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Chlorodibromomethane	2023-01	ug/L															
Chlorodibromomethane	2023-03	ug/L		< 5			< 5			< 5							
Chlorodibromomethane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Chlorodibromomethane	2024-03	ug/L		< 5			< 5			< 5							
Chlorodibromomethane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Chloroethane	2008-08	ug/L	**10**	**5.3**	**4.12**	< 4	< 4	< 4	< 4								
Chloroethane	2009-03	ug/L	**10.5**	< 4	< 4	< 4	< 4	< 4	< 4								
Chloroethane	2009-07	ug/L	**10.4**	**5.57**	**4.41**	**5.45**	< 4.00										
Chloroethane	2009-09	ug/L	**8.01**	< 20.0	**4.04**	**6.22**	< 4.00										
Chloroethane	2010-03	ug/L	**10.4**	**6.45**	**4.31**	**4.82**	< 4.00	< 4.00	< 4.00								
Chloroethane	2010-09	ug/L	**12.6**	< 4.00	< 4.00	**5.75**	< 4.00	< 4.00	< 4.00								
Chloroethane	2011-03	ug/L	**11.2**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Chloroethane	2011-09	ug/L	**11.5**	**4.53**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Chloroethane	2012-03	ug/L	**8.46**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Chloroethane	2012-09	ug/L	**14.3**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Chloroethane	2013-03	ug/L	**6.11**	**1.72 J**	< 100		< 4.00	< 4	< 4								
Chloroethane	2013-05	ug/L															
Chloroethane	2013-09	ug/L	**9.16**	**3.33 J**	**5.23**	< 4.00	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Chloroethane	2013-11	ug/L									< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Chloroethane	2014-03	ug/L	**9.46**	**2.23 J**	**2.98 J**	< 4.00	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Chloroethane	2014-06	ug/L									< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Chloroethane	2014-09	ug/L	**13.9**	**2.88 J**	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4		
Chloroethane	2015-03	ug/L	**11.1**	**2.31 J**	**3.23 J**	< 4.00	< 4	< 4	< 4		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Chloroethane	2015-09	ug/L		**2.17 J**		< 4	< 4	< 4	< 4								
Chloroethane	2015-10	ug/L	**9.56**		< 4					< 4	< 4	< 4	< 4	< 4	< 4		
Chloroethane	2016-03	ug/L	**11.8**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Chloroethane	2016-06	ug/L															
Chloroethane	2016-08	ug/L	**11.2**	**1.22 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Chloroethane	2017-03	ug/L	**10.3**	**1.36 J**	**4.49**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Chloroethane	2017-08	ug/L	**11.6**	**3.02 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Chloroethane	2017-11	ug/L														< 4	< 4
Chloroethane	2018-03	ug/L	**9.03**	< 4	**2.56 J**	< 4	< 4	< 4	< 4	< 40	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2018-06	ug/L														< 4	< 4
Chloroethane	2018-08	ug/L	**14.1**	**1.67 J**	**2.79 J**	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4			
Chloroethane	2018-09	ug/L													< 4	< 4	< 4
Chloroethane	2018-11	ug/L														< 4	< 4
Chloroethane	2019-03	ug/L	**7.08**	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2019-08	ug/L	**18.8**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2020-03	ug/L	**9.46**	< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4
Chloroethane	2020-04	ug/L			**2.26 J**									< 4			
Chloroethane	2020-08	ug/L	**16**	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Chloroethane	2021-03	ug/L							**1.29 J**	**3.03 J**	< 4	< 4						
Chloroethane	2021-08	ug/L	< 4	< 4	< 4	< 4	< 40	< 4	**1.88 J**	**11.1**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2022-03	ug/L							< 4	**1.97 J**	< 4	< 4						
Chloroethane	2022-08	ug/L	< 4	< 4	< 4	< 4	< 4		**1.33 J**	**2.24 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2023-01	ug/L															< 4	
Chloroethane	2023-03	ug/L							< 4	**2.33 J**	< 4	< 4					< 4	
Chloroethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4		< 4	**3.19 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2024-03	ug/L							< 4	**4.87**	< 4	< 4						
Chloroethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4		< 4	**2.19 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroform	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Chloroform	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Chloroform	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2012-09	ug/L	< 1.00	< 2.00	< 2.00	< 1.00	< 1.00	< 2.00	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
Chloroform	2013-05	ug/L			< 1.00			< 1.00										
Chloroform	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2013-11	ug/L																
Chloroform	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2014-06	ug/L																
Chloroform	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	**0.344 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
Chloroform	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Chloroform	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
Chloroform	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2016-06	ug/L			< 1	< 1												
Chloroform	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2017-11	ug/L																
Chloroform	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2018-06	ug/L																
Chloroform	2018-08	ug/L	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloroform	2018-09	ug/L					< 3						< 3	< 3				
Chloroform	2018-11	ug/L																
Chloroform	2019-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2020-03	ug/L	< 3	< 3	< 3			< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2020-04	ug/L				< 3	< 3		< 3									
Chloroform	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2021-03	ug/L							< 3	< 3	< 3	< 3						
Chloroform	2021-08	ug/L	< 3	< 3	< 3	< 3	< 30	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2022-03	ug/L							< 3	< 3	< 3	< 3						
Chloroform	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2023-01	ug/L															< 3	
Chloroform	2023-03	ug/L							< 3	< 3	< 3	< 3					< 3	
Chloroform	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2024-03	ug/L							< 3	< 3	< 3	< 3						
Chloroform	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2008-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2009-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2009-07	ug/L	< 3	< 3.00		< 3		< 3	< 3	< 3	< 3	< 3	< 3.00	< 3.00	< 3	< 3	< 3	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Chloroethane	2021-03	ug/L		< 4			< 4			< 4							
Chloroethane	2021-08	ug/L	**8.91 J+**	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Chloroethane	2022-03	ug/L		< 4			< 4			< 4							
Chloroethane	2022-08	ug/L	**12.5**	< 4	**1.48 J**	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Chloroethane	2023-01	ug/L															
Chloroethane	2023-03	ug/L		< 4			< 4			< 4							
Chloroethane	2023-08	ug/L	**8.67**	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Chloroethane	2024-03	ug/L		< 4			< 4			< 4							
Chloroethane	2024-08	ug/L	**8.99**	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Chloroform	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Chloroform	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Chloroform	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Chloroform	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Chloroform	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Chloroform	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Chloroform	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Chloroform	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Chloroform	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Chloroform	2012-09	ug/L	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 2.00	< 2.00								
Chloroform	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
Chloroform	2013-05	ug/L															
Chloroform	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		**0.300 J**	< 1.00	< 1.00	< 1.00	< 1.00		
Chloroform	2013-11	ug/L									**0.454 J**	< 1.00	< 1.00	< 1.00	< 1.00		
Chloroform	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chloroform	2014-06	ug/L									**0.464 J**	< 1.00	< 1.00	< 1.00	< 1.00		
Chloroform	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Chloroform	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chloroform	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
Chloroform	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
Chloroform	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Chloroform	2016-06	ug/L															
Chloroform	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Chloroform	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Chloroform	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Chloroform	2017-11	ug/L														< 1	< 1
Chloroform	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2018-06	ug/L														< 3	< 3
Chloroform	2018-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3			
Chloroform	2018-09	ug/L													< 3	< 3	< 3
Chloroform	2018-11	ug/L														< 3	< 3
Chloroform	2019-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2020-03	ug/L	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3
Chloroform	2020-04	ug/L			< 3									< 3			
Chloroform	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloroform	2021-03	ug/L		< 3			< 3			< 3							
Chloroform	2021-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloroform	2022-03	ug/L		< 3			< 3			< 3							
Chloroform	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloroform	2023-01	ug/L															
Chloroform	2023-03	ug/L		< 3			< 3			< 3							
Chloroform	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloroform	2024-03	ug/L		< 3			< 3			< 3							
Chloroform	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloromethane	2008-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3								
Chloromethane	2009-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3								
Chloromethane	2009-07	ug/L	< 3.00	< 3	< 3	< 3	< 3.00										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Chloromethane	2009-09	ug/L	< 3	< 3.00		< 3.00		< 3.00	< 3.00	< 15.0	< 3.00	< 3	< 3	< 3	< 3	< 3	< 3	
Chloromethane	2010-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2010-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2011-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 30.0	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2011-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2012-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2012-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2013-03	ug/L	< 3.00	< 3		< 3.00	< 3.00		< 3	< 3	< 3	< 3	< 3	< 3	< 3.00	< 3.00	< 3	< 3
Chloromethane	2013-05	ug/L			< 3.00			< 3.00										
Chloromethane	2013-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2013-11	ug/L																
Chloromethane	2014-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2014-06	ug/L																
Chloromethane	2014-09	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2015-03	ug/L	< 3	< 3	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3	< 3	< 3.00	< 3.00	< 3	< 3	< 3	< 3.00
Chloromethane	2015-09	ug/L	< 3	< 3		< 3	< 3	< 3			< 3	< 3	< 3	< 3		< 3	< 3	
Chloromethane	2015-10	ug/L			< 3				< 3	< 3					< 3			< 3
Chloromethane	2016-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2016-06	ug/L			< 3	< 3												
Chloromethane	2016-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2017-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2017-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2017-11	ug/L																
Chloromethane	2018-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2018-06	ug/L																
Chloromethane	2018-08	ug/L	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloromethane	2018-09	ug/L					< 3						< 3	< 3				
Chloromethane	2018-11	ug/L																
Chloromethane	2019-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2020-03	ug/L	< 3	< 3	< 3			< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2020-04	ug/L				< 3	< 3		< 3									
Chloromethane	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2021-03	ug/L							< 3	< 3	< 3	< 3						
Chloromethane	2021-08	ug/L	< 3	< 3	< 3	< 3	< 30	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2022-03	ug/L							< 3	< 3	< 3	< 3						
Chloromethane	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2023-01	ug/L															< 3	
Chloromethane	2023-03	ug/L							< 3	< 3	< 3	< 3					< 3	
Chloromethane	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2024-03	ug/L							< 3	< 3	< 3	< 3						
Chloromethane	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroprene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroprene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroprene	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Chloroprene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Chloroprene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroprene	2010-09	ug/L	< 1.00	< 1.00	< 1.00			< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	
Chloroprene	2011-03	ug/L	< 1.00	< 1.00	< 1.00			< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Chloroprene	2012-09	ug/L														< 4.00		
Chloroprene	2015-09	ug/L	< 1	< 1			< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Chloroprene	2015-10	ug/L							< 1	< 1					< 1			< 1
Chloroprene	2016-03	ug/L			< 1	< 1												
Chloroprene	2016-06	ug/L			< 1	< 1												
Chloroprene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroprene	2023-01	ug/L															< 1	
Chloroprene	2023-03	ug/L															< 1	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Chloromethane	2009-09	ug/L	< 3.00	< 15.0	< 3.00	< 3.00	< 3.00										
Chloromethane	2010-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Chloromethane	2010-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Chloromethane	2011-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Chloromethane	2011-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Chloromethane	2012-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Chloromethane	2012-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Chloromethane	2013-03	ug/L	< 3	< 3	< 75.0		< 3.00	< 3	< 3								
Chloromethane	2013-05	ug/L															
Chloromethane	2013-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2013-11	ug/L									< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2014-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2014-06	ug/L									< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2014-09	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3		
Chloromethane	2015-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3	< 3	< 3		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2015-09	ug/L		< 3		< 3	< 3	< 3	< 3								
Chloromethane	2015-10	ug/L	< 3		< 3					< 3	< 3 J	< 3	< 3	< 3	< 3		
Chloromethane	2016-03	ug/L	< 3	< 3	< 3	< 3	**0.311 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		
Chloromethane	2016-06	ug/L															
Chloromethane	2016-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		
Chloromethane	2017-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		
Chloromethane	2017-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		
Chloromethane	2017-11	ug/L														< 3	< 3
Chloromethane	2018-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 30	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2018-06	ug/L														< 3	< 3
Chloromethane	2018-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3			
Chloromethane	2018-09	ug/L													< 3	< 3	< 3
Chloromethane	2018-11	ug/L														< 3	< 3
Chloromethane	2019-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2020-03	ug/L	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3
Chloromethane	2020-04	ug/L			< 3									< 3			
Chloromethane	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloromethane	2021-03	ug/L		< 3			< 3			< 3							
Chloromethane	2021-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloromethane	2022-03	ug/L		< 3			< 3			< 3							
Chloromethane	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloromethane	2023-01	ug/L															
Chloromethane	2023-03	ug/L		< 3			< 3			< 3							
Chloromethane	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloromethane	2024-03	ug/L		< 3			< 3			< 3							
Chloromethane	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Chloroprene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Chloroprene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Chloroprene	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Chloroprene	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Chloroprene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Chloroprene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00										
Chloroprene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00									
Chloroprene	2012-09	ug/L				< 4.00											
Chloroprene	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
Chloroprene	2015-10	ug/L	< 1		< 1					< 1							
Chloroprene	2016-03	ug/L					< 1			< 1							
Chloroprene	2016-06	ug/L															
Chloroprene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1							
Chloroprene	2023-01	ug/L															
Chloroprene	2023-03	ug/L					< 1			< 1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Chromium	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chromium	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chromium	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chromium	2009-09	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chromium	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2013-03	mg/L	< 0.0200	< 0.02		< 0.0200	< 0.0200		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.02	< 0.02
Chromium	2013-05	mg/L			< 0.0200			< 0.0200										
Chromium	2013-09	mg/L	**0.00233 J**	**0.00151 J**	**0.00405 J**	< 0.0200	**0.00252 J**	**0.00425 J**	**0.00236 J**	**0.00236 J**	**0.00728 J**	**0.00429 J**	**0.00345 J**	**0.00176 J**	< 0.0200	**0.00217 J**	**0.00167 J**	**0.00369 J**
Chromium	2013-11	mg/L																
Chromium	2014-03	mg/L	**0.00265 J**	< 0.0200	< 0.0200	**0.00264 J**	**0.00227 J**	**0.00304 J**	**0.00365 J**	**0.00294 J**	**0.00368 J**	**0.00248 J**	**0.00301 J**	< 0.0200	**0.00242 J**	**0.00168 J**	**0.00153 J**	**0.00703 J**
Chromium	2014-06	mg/L																
Chromium	2014-09	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00124 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2015-03	mg/L	< 0.005	< 0.005	< 0.00500	< 0.00500	**0.00151 J**	< 0.00500	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.005	< 0.00500
Chromium	2015-09	mg/L	< 0.005	< 0.005		< 0.005	**0.00208 J**	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	
Chromium	2015-10	mg/L			< 0.005				< 0.005	< 0.005					< 0.005			< 0.005
Chromium	2016-03	mg/L	< 0.005	< 0.005	< 0.005	**0.000713 J**	**0.00127 J**	< 0.005	**0.000457 J**	**0.000499 J**	< 0.005	**0.000369 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.000556 J**	< 0.005
Chromium	2016-06	mg/L			< 0.005	< 0.005												
Chromium	2016-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00125 J**	**0.00191 J**	< 0.005	**0.00263 J**	**0.000515 J**	< 0.005	< 0.005	**0.000873 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00135 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.000953 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2017-11	mg/L																
Chromium	2018-03	mg/L	< 0.005	< 0.005	< 0.005	**0.000825 J**	**0.00195 J**	< 0.005	**0.000828 J**	**0.00263 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2018-06	mg/L																
Chromium	2018-08	mg/L	< 0.005	< 0.005	< 0.005	**0.000835 J**		< 0.005	**0.000808 J**	< 0.005	**0.00127 J**	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2018-09	mg/L					**0.00155 J**						**0.000824 J**	< 0.005				
Chromium	2018-11	mg/L																
Chromium	2019-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00103 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2019-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00155 J**	< 0.005	**0.191 J**	**0.00407 J**	**0.00176 J**	< 0.005	**0.00257 J**	**0.0547**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2020-03	mg/L	< 0.005	< 0.005	< 0.005			< 0.005		< 0.005	< 0.02	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2020-04	mg/L				< 0.005	< 0.005		< 0.005									
Chromium	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00145 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2021-03	mg/L							< 0.005	< 0.005	< 0.005	< 0.005						
Chromium	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00875**	**0.00115 J**	< 0.005	< 0.005	< 0.005	**0.00112 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2022-03	mg/L							< 0.005	< 0.02	< 0.005	< 0.005						
Chromium	2022-08	mg/L	< 0.005 J	< 0.005	< 0.005	**0.00198 J**	**0.00224 J**		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0011 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2023-01	mg/L															< 0.005	
Chromium	2023-03	mg/L							< 0.005	< 0.005	< 0.005	< 0.005					< 0.005	
Chromium	2023-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.0026 J**		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2024-03	mg/L							< 0.005	< 0.005	< 0.005	< 0.005						
Chromium	2024-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00147 J**	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Chrysene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Chrysene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Chrysene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Chrysene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Chrysene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Chrysene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Chrysene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Chrysene	2016-03	ug/L			< 11.1	< 11.2												
Chrysene	2016-06	ug/L			< 11.4	< 11.4												
Chrysene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Chromium	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Chromium	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Chromium	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Chromium	2009-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200									
Chromium	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Chromium	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Chromium	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Chromium	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Chromium	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Chromium	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Chromium	2013-03	mg/L	< 0.02	< 0.02	< 0.0200		< 0.0200	< 0.02	< 0.02								
Chromium	2013-05	mg/L															
Chromium	2013-09	mg/L	**0.00415 J**	**0.00177 J**	**0.00219 J**	**0.00260 J**	**0.00393 J**	**0.00211 J**	**0.00323 J**	~~< 0.0200~~	< 0.0200	**0.00510 J**	< 0.0200	< 0.0200	**0.00634 J**		
Chromium	2013-11	mg/L								~~**0.00412 J**~~	**0.00268 J**	**0.00223 J**	< 0.0200	**0.00197 J**	**0.00157 J**		
Chromium	2014-03	mg/L	**0.00162 J**	**0.00408 J**	< 0.0200	**0.00891 J**	< 0.0200	< 0.0200	**0.00165 J**	~~**0.00422 J**~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	**0.00236 J**		
Chromium	2014-06	mg/L								~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Chromium	2014-09	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	~~< 0.005~~	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		
Chromium	2015-03	mg/L	< 0.00500	< 0.00500	**0.00136 J**	< 0.00500	< 0.005	**0.00165 J**	< 0.005	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500		
Chromium	2015-09	mg/L		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005								
Chromium	2015-10	mg/L	< 0.005		**0.00149 J**					< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		
Chromium	2016-03	mg/L	< 0.005	**0.000951 J**	**0.00135 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.000904 J**	**0.00108 J**	**0.00101 J**	< 0.005	**0.00051 J**	< 0.005		
Chromium	2016-06	mg/L															
Chromium	2016-08	mg/L	< 0.005	**0.000923 J**	**0.0013 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00102 J**	**0.00093 J**	**0.00129 J**	< 0.005	**0.00108 J**	**0.000362 J**		
Chromium	2017-03	mg/L	< 0.005	**0.000974 J**	**0.00105 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.000751 J**	< 0.005	< 0.005	< 0.005		
Chromium	2017-08	mg/L	< 0.005	**0.000845 J**	**0.00128 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.000747 J**	**0.000829 J**	< 0.005	< 0.005	< 0.005		
Chromium	2017-11	mg/L														< 0.005	< 0.005
Chromium	2018-03	mg/L	< 0.005	**0.00113 J**	**0.00182 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00103 J**	**0.000967 J**	**0.000933 J**	< 0.005	< 0.005	< 0.005	**0.00166 J**	**0.00124 J**
Chromium	2018-06	mg/L														< 0.005	< 0.005
Chromium	2018-08	mg/L	< 0.005	**0.0012 J**	**0.00158 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005			
Chromium	2018-09	mg/L													< 0.005	< 0.005	< 0.005
Chromium	2018-11	mg/L														**0.0013 J**	< 0.005
Chromium	2019-03	mg/L	< 0.005	< 0.005	**0.00129 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2019-08	mg/L	**0.0351**	< 0.005	**0.0201**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00348 J**	**0.00311 J**	**0.00184 J**	**0.00254 J**	< 0.005	**0.00271 J**	< 0.005
Chromium	2020-03	mg/L	< 0.005	**0.00125 J**		< 0.005	< 0.005	< 0.005	< 0.005	**0.00125 J**	< 0.005	< 0.005	< 0.005		< 0.005	**0.00128 J**	< 0.005
Chromium	2020-04	mg/L			< 0.005									< 0.005			
Chromium	2020-08	mg/L	< 0.005	< 0.005	**0.00132 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	**0.00117 J**	< 0.005		< 0.005
Chromium	2021-03	mg/L		< 0.005			< 0.005			**0.00241 J**							
Chromium	2021-08	mg/L	< 0.005	**0.00111 J**	**0.00158 J**	< 0.005	**0.00442 J**	< 0.005	**0.00323 J**	< 0.005			< 0.005	**0.00112 J**	< 0.005		< 0.005
Chromium	2022-03	mg/L		< 0.02			< 0.005			< 0.005							
Chromium	2022-08	mg/L	< 0.005	< 0.005	**0.00193 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005		< 0.005
Chromium	2023-01	mg/L															
Chromium	2023-03	mg/L		< 0.005			< 0.005			< 0.005							
Chromium	2023-08	mg/L	< 0.005	**0.00119 J**	**0.00131 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005		< 0.005
Chromium	2024-03	mg/L		< 0.005			< 0.005			< 0.005							
Chromium	2024-08	mg/L	< 0.005	< 0.005	**0.00132 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	**0.00131 J**	< 0.005		< 0.005
Chrysene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Chrysene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Chrysene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Chrysene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Chrysene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Chrysene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Chrysene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Chrysene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Chrysene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Chrysene	2016-03	ug/L					< 10.9			< 11.2							
Chrysene	2016-06	ug/L															
Chrysene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Chrysene	2023-01	ug/L															< 10.9	
Chrysene	2023-03	ug/L															< 10.4	
cis-1,2-Dichloroethene	2008-08	ug/L	< 1	5.35	< 1	< 1	< 1	1.63	24.6	26.9	12.1	< 1	< 1	2.95	< 1	2.38	< 1	< 1
cis-1,2-Dichloroethene	2009-03	ug/L	1.35	5.97	< 1	< 1	< 1	2.5	14.3	9.34	14.7	< 1	< 1	1.45	1.06	2.56	< 1	< 1
cis-1,2-Dichloroethene	2009-07	ug/L	1.16	5.11		< 1		1.2	17.2	7.98	12.5	< 1	< 1.00	1.10	< 1	2.17	< 1	
cis-1,2-Dichloroethene	2009-09	ug/L	< 1	5.48		< 1.00		3.15	26.7	8.25	13.1	< 1	< 1	1.12	< 1	2.79	< 1	
cis-1,2-Dichloroethene	2010-03	ug/L	< 1.00	5.88	< 1.00	< 1.00	< 1.00	< 1.00	21.4	6.63	9.31	< 1.00	< 1.00	< 1.00	< 1.00	2.95	< 1.00	< 1.00
cis-1,2-Dichloroethene	2010-09	ug/L	1.11	4.57	< 1.00	< 1.00	< 1.00	2.19	16.6	3.07	10.7	< 1.00	< 1.00	1.95	< 1.00	2.96	< 1.00	< 1.00
cis-1,2-Dichloroethene	2011-03	ug/L	1.49	4.31	< 1.00	< 1.00	< 10.0	< 1.00	10.7	6.51	9.56	< 1.00	< 1.00	1.11	< 1.00	2.53	< 1.00	< 1.00
cis-1,2-Dichloroethene	2011-09	ug/L	1.32	4.56	< 1.00	< 1.00	< 1.00	2.57	12.0	1.04	6.35	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
cis-1,2-Dichloroethene	2012-03	ug/L	1.92	4.58	< 1.00	< 1.00	< 1.00	2.39	8.06	1.16	6.56	< 1.00	< 1.00	< 1.00	< 1.00	1.71	< 1.00	< 1.00
cis-1,2-Dichloroethene	2012-09	ug/L	2.48	6.85	< 1.00	< 1.00	< 1.00	1.14	9.40	4.06	6.93	< 1.00	< 1.00	1.21	< 1.00	1.46	< 1.00	< 1.00
cis-1,2-Dichloroethene	2013-03	ug/L	2.18	5.62		< 1.00	< 1.00		7.92	1.05	4.97	0.927 J	0.51 J	0.493 J	0.664 J	0.789 J	< 1	< 1
cis-1,2-Dichloroethene	2013-05	ug/L			< 1.00			0.822 J										
cis-1,2-Dichloroethene	2013-09	ug/L	1.24	6.30	0.165 J	< 1.00	< 1.00	2.37	10.6	0.988 J	3.65	0.375 J	0.194 J	1.19	0.606 J	2.71	< 1.00	< 1.00
cis-1,2-Dichloroethene	2013-11	ug/L																
cis-1,2-Dichloroethene	2014-03	ug/L	1.87	0.789 J	< 1.00	< 1.00	< 1.00	3.62	7.29	1.61	3.90	< 1.00	< 1.00	1.08	5.87	< 1.00	< 1.00	< 1.00
cis-1,2-Dichloroethene	2014-06	ug/L																
cis-1,2-Dichloroethene	2014-09	ug/L	0.84 J	5.71	< 1	< 1	< 1	1.79	8.14	0.678 J	3.07	0.186 J	< 1	< 1	< 1	3.14	< 1	< 1
cis-1,2-Dichloroethene	2015-03	ug/L	1.08	5.34	< 1.00	< 1.00	< 1.00	0.636 J	6.92	1.94	3.68	< 1	< 1.00	0.829 J	0.411 J	2.69	< 1	< 1.00
cis-1,2-Dichloroethene	2015-09	ug/L	0.736 J	4.99		< 1	< 1	1.13			2.77	< 1	< 1	0.593 J		2.75	< 1	
cis-1,2-Dichloroethene	2015-10	ug/L			< 1				6.51	0.709 J					0.2 J			< 1
cis-1,2-Dichloroethene	2016-03	ug/L	1.1	4.62	0.163 J	< 1	< 1	0.593 J	5.96	0.359 J	2.63	< 1	< 1	0.256 J	0.153 J	2.68	< 1	< 1
cis-1,2-Dichloroethene	2016-06	ug/L			< 1	< 1												
cis-1,2-Dichloroethene	2016-08	ug/L	0.909 J	3.91	0.258 J	< 1	< 1	0.674 J	5.74	0.297 J	1.42	< 1	0.599 J	0.328 J	< 1	2.72	< 1	< 1
cis-1,2-Dichloroethene	2017-03	ug/L	0.759 J	3.03	< 1	< 1	< 1	0.656 J	5.35	< 1	0.29 J	< 1	< 1	< 1	0.212 J	1.49	< 1	< 1
cis-1,2-Dichloroethene	2017-08	ug/L	0.589 J	2.98	< 1	< 1	< 1	0.647 J	4.79	0.228 J	0.653 J	0.164 J	< 1	0.499 J	< 1	1.82	< 1	< 1
cis-1,2-Dichloroethene	2017-11	ug/L																
cis-1,2-Dichloroethene	2018-03	ug/L	0.911 J	2.85	< 1	< 1	< 1	0.643 J	5.23	1.55	0.821 J	< 1	< 1	0.301 J	< 1	1.79	< 1	< 1
cis-1,2-Dichloroethene	2018-06	ug/L																
cis-1,2-Dichloroethene	2018-08	ug/L	0.576 J	3.78	< 1	< 1		0.536 J	5.29	0.38 J	0.982 J	< 1			< 1	1.98	< 1	< 1
cis-1,2-Dichloroethene	2018-09	ug/L					< 1						0.699 J	0.53 J				
cis-1,2-Dichloroethene	2018-11	ug/L																
cis-1,2-Dichloroethene	2019-03	ug/L	< 1	3.07	< 1	< 1	< 1	0.597 J	4.23	< 1	< 1	< 1	< 1	< 1	< 1	0.458 J	< 1	< 1
cis-1,2-Dichloroethene	2019-08	ug/L	0.62 J	2.56	0.366 J	< 1	< 1	0.722 J	4.05	0.363 J	1.02	< 1	< 1	1	< 1	0.925 J	0.269 J	< 1
cis-1,2-Dichloroethene	2020-03	ug/L	0.249 J	3.17	< 1			0.593 J		< 1	0.687 J	< 1	< 1	0.338 J	< 1	0.665 J	< 1	< 1
cis-1,2-Dichloroethene	2020-04	ug/L				< 1	< 1		4.11									
cis-1,2-Dichloroethene	2020-08	ug/L	0.674 J	2.64	< 1	< 1	< 1	0.52 J	3.65	< 1	0.833 J	< 1	< 1	0.698 J	< 1	1.29	< 1	< 1
cis-1,2-Dichloroethene	2021-03	ug/L							3.92	< 1	0.514 J	< 1						
cis-1,2-Dichloroethene	2021-08	ug/L	0.833 J+	2.06	< 1	< 1	< 10	< 1	4.15	0.318 J	1.25	< 1	< 1	0.459 J	0.252 J+	0.357 J	< 1	< 1
cis-1,2-Dichloroethene	2022-03	ug/L							4.05	< 1	0.631 J	< 1						
cis-1,2-Dichloroethene	2022-08	ug/L	0.776 J	3.37	< 1	< 1	< 1		3.81	< 1	0.882 J	< 1	< 1	0.596 J	< 1	1.06	< 1	< 1
cis-1,2-Dichloroethene	2023-01	ug/L															< 1	
cis-1,2-Dichloroethene	2023-03	ug/L							3.67	< 1	0.31 J	< 1					< 1	
cis-1,2-Dichloroethene	2023-08	ug/L	0.628 J	2.87	< 1	< 1	< 1		3.55	< 1	0.721 J	< 1	< 1	0.478 J	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	2024-03	ug/L							4.87	< 1	< 1	< 1						
cis-1,2-Dichloroethene	2024-08	ug/L	0.756 J	3.12	< 1	< 1	< 1		4.21	< 1	0.443 J	< 1	< 1	0.365 J	< 1	0.284 J	< 1	< 1
cis-1,3-Dichloropropene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2009-07	ug/L	< 5	< 5.00		< 5		< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	
cis-1,3-Dichloropropene	2009-09	ug/L	< 5	< 5.00		< 5.00		< 5.00	< 5.00	< 25.0	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	
cis-1,3-Dichloropropene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 5.00	< 5.00	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00
cis-1,3-Dichloropropene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 50.0	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Chrysene	2023-01	ug/L															
Chrysene	2023-03	ug/L					< 10			< 10							
cis-1,2-Dichloroethene	2008-08	ug/L	**4.61**	**1.83**	**32.7**	< 1	< 1	< 1	< 1								
cis-1,2-Dichloroethene	2009-03	ug/L	**5.7**	< 1	**59.2**	< 1	< 1	< 1	< 1								
cis-1,2-Dichloroethene	2009-07	ug/L	**5.27**	< 1	**42.7**	**1.18**	< 1.00										
cis-1,2-Dichloroethene	2009-09	ug/L	**7.16**	< 5.00	**35.6**	**1.14**	< 1.00										
cis-1,2-Dichloroethene	2010-03	ug/L	**7.17**	**1.12**	**28.2**	**1.96**	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2010-09	ug/L	**6.15**	< 1.00	**43.5**	**2.04**	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2011-03	ug/L	**5.72**	< 1.00	**15.1**	**1.07**	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2011-09	ug/L	**6.04**	< 1.00	**30.4**	**2.25**	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2012-03	ug/L	**6.33**	< 1.00	**22.4**	< 1.00	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2012-09	ug/L	**7.28**	< 1.00	**4.86**	< 1.00	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2013-03	ug/L	**6.15**	**0.137 J**	< 25.0		< 1.00	**0.289 J**	< 1								
cis-1,2-Dichloroethene	2013-05	ug/L															
cis-1,2-Dichloroethene	2013-09	ug/L	**4.04**	**0.270 J**	**13.0**	**0.359 J**	< 1.00	**0.405 J**	< 1.00		< 1.00	< 1.00	< 1.00	**0.310 J**	**1.08**		
cis-1,2-Dichloroethene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
cis-1,2-Dichloroethene	2014-03	ug/L	**5.58**	< 1.00	**5.26**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
cis-1,2-Dichloroethene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
cis-1,2-Dichloroethene	2014-09	ug/L	**3.82**	**0.387 J**	**4.17**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	**0.332 J**		
cis-1,2-Dichloroethene	2015-03	ug/L	**5.89**	**0.137 J**	**14.1**	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
cis-1,2-Dichloroethene	2015-09	ug/L		**0.526 J**		< 1	< 1	< 1	< 1								
cis-1,2-Dichloroethene	2015-10	ug/L	**5.72**		**15.4**					< 1	< 1	< 1	< 1	< 1	**0.397 J**		
cis-1,2-Dichloroethene	2016-03	ug/L	**7.17**	**0.253 J**	**5.24**	< 1	< 1	**0.133 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.719 J**		
cis-1,2-Dichloroethene	2016-06	ug/L															
cis-1,2-Dichloroethene	2016-08	ug/L	**5.91**	< 1	**8.48**	< 1	< 1	**0.298 J**	< 1	< 1	< 1	< 1	< 1	< 1	**1.12**		
cis-1,2-Dichloroethene	2017-03	ug/L	**6.52**	< 1	**3.35**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
cis-1,2-Dichloroethene	2017-08	ug/L	**4.19**	**0.198 J**	**13.4**	< 1	**0.229 J**	**0.311 J**	< 1	< 1	< 1	< 1	< 1	**0.323 J**	**0.673 J**		
cis-1,2-Dichloroethene	2017-11	ug/L														< 1	< 1
cis-1,2-Dichloroethene	2018-03	ug/L	**7.77**	**0.231 J**	**6.55**	< 1	< 1	**0.224 J**	< 1	< 10	< 1	< 1	< 1	< 1	**0.298 J**	< 1	< 1
cis-1,2-Dichloroethene	2018-06	ug/L														< 1	< 1
cis-1,2-Dichloroethene	2018-08	ug/L	**5.83**	< 1	**12.1**	< 1	< 1	**0.472 J**	< 1	< 1		< 1	< 1	< 1			
cis-1,2-Dichloroethene	2018-09	ug/L													**0.521 J**	< 1	< 1
cis-1,2-Dichloroethene	2018-11	ug/L														< 1	< 1
cis-1,2-Dichloroethene	2019-03	ug/L	**8.4**	< 1	**1.56**	< 1	< 1	**0.458 J**	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	2019-08	ug/L	**3.41**	**0.213 J**	**8.76**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.236 J**	**0.794 J**	< 1	< 1
cis-1,2-Dichloroethene	2020-03	ug/L	**3.2**	< 1		< 1	< 1	**0.272 J**	< 1	< 1	< 1	< 1	< 1		**0.244 J**	< 1	< 1
cis-1,2-Dichloroethene	2020-04	ug/L			**1.41**									< 1			
cis-1,2-Dichloroethene	2020-08	ug/L	**3.21**	< 1	**7.53**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	**0.498 J**		< 1
cis-1,2-Dichloroethene	2021-03	ug/L		< 1			< 1			< 1							
cis-1,2-Dichloroethene	2021-08	ug/L	**4.45 J+**	< 1	**8.76**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	**0.217 J**		< 1
cis-1,2-Dichloroethene	2022-03	ug/L		< 1			< 1			< 1							
cis-1,2-Dichloroethene	2022-08	ug/L	**4.62**	< 1	**5.2**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
cis-1,2-Dichloroethene	2023-01	ug/L															
cis-1,2-Dichloroethene	2023-03	ug/L		< 1			< 1			< 1							
cis-1,2-Dichloroethene	2023-08	ug/L	**5.56**	< 1	**6.03**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
cis-1,2-Dichloroethene	2024-03	ug/L		< 1			< 1			< 1							
cis-1,2-Dichloroethene	2024-08	ug/L	**7.11**	< 1	**0.64 J**	< 1	< 1	**0.329 J**	< 1	< 1			< 1	< 1	**0.223 J**		< 1
cis-1,3-Dichloropropene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
cis-1,3-Dichloropropene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
cis-1,3-Dichloropropene	2009-07	ug/L	< 5.00	< 5	< 5	< 5	< 5.00										
cis-1,3-Dichloropropene	2009-09	ug/L	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00										
cis-1,3-Dichloropropene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
cis-1,3-Dichloropropene	2013-03	ug/L	< 5.00	< 5		< 5.00	< 5.00		< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5
cis-1,3-Dichloropropene	2013-05	ug/L			< 5.00			< 5.00										
cis-1,3-Dichloropropene	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2013-11	ug/L																
cis-1,3-Dichloropropene	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2014-06	ug/L																
cis-1,3-Dichloropropene	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2015-03	ug/L	< 5	< 5	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	< 5.00
cis-1,3-Dichloropropene	2015-09	ug/L	< 5	< 5		< 5	< 5	< 5			< 5	< 5	< 5	< 5		< 5	< 5	
cis-1,3-Dichloropropene	2015-10	ug/L			< 5				< 5	< 5					< 5			< 5
cis-1,3-Dichloropropene	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2016-06	ug/L			< 5	< 5												
cis-1,3-Dichloropropene	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2017-11	ug/L																
cis-1,3-Dichloropropene	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2018-06	ug/L																
cis-1,3-Dichloropropene	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2018-09	ug/L					< 5						< 5	< 5				
cis-1,3-Dichloropropene	2018-11	ug/L																
cis-1,3-Dichloropropene	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2020-03	ug/L	< 5	< 5	< 5			< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2020-04	ug/L				< 5	< 5		< 5									
cis-1,3-Dichloropropene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2021-03	ug/L							< 5	< 5	< 5	< 5						
cis-1,3-Dichloropropene	2021-08	ug/L	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2022-03	ug/L							< 5	< 5	< 5	< 5						
cis-1,3-Dichloropropene	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2023-01	ug/L															< 5	
cis-1,3-Dichloropropene	2023-03	ug/L							< 5	< 5	< 5	< 5					< 5	
cis-1,3-Dichloropropene	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2024-03	ug/L							< 5	< 5	< 5	< 5						
cis-1,3-Dichloropropene	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Cobalt	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05	~~< 0.05~~	< 0.05	~~< 0.05~~	< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05	< 0.05
Cobalt	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05	~~< 0.05~~	< 0.05	~~< 0.05~~	< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05	< 0.05
Cobalt	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05	~~< 0.05~~	< 0.05	~~< 0.05~~	< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05	< 0.05
Cobalt	2009-09	mg/L		< 0.0200	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	< 0.0200	~~0.0270~~	< 0.0200	~~0.0263~~	< 0.02	< 0.02	~~< 0.02~~	< 0.02	< 0.02	< 0.02
Cobalt	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	< 0.0200	~~0.0359~~	< 0.0200	~~< 0.0200~~	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200
Cobalt	2010-09	mg/L	**0.00358 J**	**0.00288 J**	< 0.0200	**0.00798 J**	~~**0.00721 J**~~	< 0.0200	**0.00577 J**	~~0.0323~~	**0.00301 J**	~~**0.0200**~~	**0.00797 J**	**0.00248 J**	~~**0.00450 J**~~	< 0.0200	< 0.0200	< 0.0200
Cobalt	2011-03	mg/L	**0.00386 J**	**0.00374 J**	**0.00479 J**	**0.00186 J**	~~**0.00659 J**~~	**0.00415 J**	**0.00533 J**	~~0.0230~~	**0.00523 J**	~~**0.0146 J**~~	**0.00340 J**	< 0.0200	~~**0.00387 J**~~	< 0.0200	< 0.0200	< 0.0200
Cobalt	2011-09	mg/L	**0.00185 J**	**0.00260 J**	< 0.0200	**0.00999 J**	~~**0.0105 J**~~	**0.00159 J**	**0.00483 J**	~~0.0244~~	< 0.0200	~~**0.0174 J**~~	**0.00425 J**	**0.00345 J**	~~**0.00458 J**~~	< 0.0200	< 0.0200	< 0.0200
Cobalt	2012-03	mg/L	**0.00206 J**	**0.00252 J**	< 0.0200	**0.00471 J**	~~**0.00869 J**~~	**0.00340 J**	**0.00500 J**	~~0.0282~~	**0.00290 J**	~~**0.00922 J**~~	**0.00338 J**	**0.00234 J**	~~**0.00822 J**~~	< 0.0200	< 0.0200	< 0.0200
Cobalt	2012-09	mg/L	< 0.0200	**0.00291 J**	< 0.0200	**0.00988 J**	~~**0.00986 J**~~	< 0.0200	**0.00415 J**	~~0.0173 J~~	< 0.0200	~~**0.00882 J**~~	**0.00612 J**	**0.00337 J**	~~**0.0119 J**~~	< 0.0200	< 0.0200	< 0.0200
Cobalt	2013-03	mg/L	**0.00298 J**	**0.00495 J**		**0.00211 J**	~~**0.00679 J**~~		**0.00644 J**	~~0.0222~~	**0.00996 J**	~~**0.0149 J**~~	**0.00537 J**	**0.00301 J**	~~**0.0168 J**~~	< 0.0200	**0.00157 J**	**0.00335 J**
Cobalt	2013-05	mg/L			< 0.00700			**0.00276 J**										
Cobalt	2013-09	mg/L	**0.00204 J**	< 0.00700	< 0.00700	**0.00307 J**	~~**0.0120**~~	< 0.00700	**0.00423 J**	~~**0.00236 J**~~	< 0.00700	~~< 0.00700~~	< 0.00700	< 0.00700	~~**0.00991**~~	< 0.00700	< 0.00700	< 0.00700
Cobalt	2013-11	mg/L																
Cobalt	2014-03	mg/L	< 0.00700	**0.00378 J**	< 0.00700	**0.00595 J**	~~**0.0110**~~	< 0.00700	**0.00553 J**	~~**0.0201**~~	< 0.00700	~~**0.0103**~~	**0.00477 J**	**0.00243 J**	~~**0.0118**~~	< 0.00700	< 0.00700	< 0.00700
Cobalt	2014-06	mg/L																
Cobalt	2014-09	mg/L	**0.0018**	**0.00299**	**0.000065 J**	**0.00647**	~~**0.00664**~~	**0.0007**	**0.0052**	~~**0.0179**~~	**0.00423**	~~**0.0116**~~	**0.003**	**0.00231**	~~**0.00971**~~	**0.000337 J**	**0.000236 J**	**0.000079 J**
Cobalt	2015-03	mg/L	**0.00166**	**0.00377**	**0.000216 J**	**0.00277**	~~**0.00632**~~	**0.00178**	**0.00525**	~~**0.00524**~~	**0.00167**	~~**0.00793**~~	**0.00161**	**0.00222**	~~**0.0093**~~	**0.000358 J**	< 0.0005	< 0.000500
Cobalt	2015-09	mg/L	**0.00303**	**0.00291**		**0.00148**	~~**0.00231**~~	**0.00115**			**0.00317**	~~**0.00683**~~	**0.0024**	**0.00139**		**0.000315 J**	< 0.0005	
Cobalt	2015-10	mg/L			**0.000239 J**				**0.00441**	~~**0.00291**~~					~~**0.00758**~~			< 0.0005
Cobalt	2016-03	mg/L	**0.00134**	**0.00292**	**0.000068 J**	**0.000986**	~~**0.00581**~~	**0.0016**	**0.00464**	~~**0.00256**~~	**0.00592**	~~**0.00949**~~	**0.000318 J**	**0.000678**	~~**0.00484**~~	**0.000287 J**	**0.000048 J**	< 0.0005
Cobalt	2016-06	mg/L			**0.000042 J**	**0.001**												

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
cis-1,3-Dichloropropene	2013-03	ug/L	< 5	< 5	< 125		< 5.00	< 5	< 5								
cis-1,3-Dichloropropene	2013-05	ug/L															
cis-1,3-Dichloropropene	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2013-11	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2014-06	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
cis-1,3-Dichloropropene	2015-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2015-09	ug/L		< 5		< 5	< 5	< 5	< 5								
cis-1,3-Dichloropropene	2015-10	ug/L	< 5		< 5					< 5	< 5	< 5	< 5	< 5	< 5		
cis-1,3-Dichloropropene	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
cis-1,3-Dichloropropene	2016-06	ug/L															
cis-1,3-Dichloropropene	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
cis-1,3-Dichloropropene	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
cis-1,3-Dichloropropene	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
cis-1,3-Dichloropropene	2017-11	ug/L														< 5	< 5
cis-1,3-Dichloropropene	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2018-06	ug/L														< 5	< 5
cis-1,3-Dichloropropene	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5			
cis-1,3-Dichloropropene	2018-09	ug/L													< 5	< 5	< 5
cis-1,3-Dichloropropene	2018-11	ug/L														< 5	< 5
cis-1,3-Dichloropropene	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2020-03	ug/L	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5
cis-1,3-Dichloropropene	2020-04	ug/L			< 5									< 5			
cis-1,3-Dichloropropene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
cis-1,3-Dichloropropene	2021-03	ug/L		< 5			< 5			< 5							
cis-1,3-Dichloropropene	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
cis-1,3-Dichloropropene	2022-03	ug/L		< 5			< 5			< 5							
cis-1,3-Dichloropropene	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
cis-1,3-Dichloropropene	2023-01	ug/L															
cis-1,3-Dichloropropene	2023-03	ug/L		< 5			< 5			< 5							
cis-1,3-Dichloropropene	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
cis-1,3-Dichloropropene	2024-03	ug/L		< 5			< 5			< 5							
cis-1,3-Dichloropropene	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Cobalt	2008-08	mg/L	< 0.05	< 0.05	< 0.05	~~< 0.05~~	~~< 0.05~~	< 0.05	< 0.05								
Cobalt	2009-03	mg/L	< 0.05	< 0.05	< 0.05	~~< 0.05~~	~~< 0.05~~	< 0.05	< 0.05								
Cobalt	2009-07	mg/L	< 0.05	< 0.05	< 0.05	~~< 0.05~~	~~< 0.05~~	< 0.05	< 0.05								
Cobalt	2009-09	mg/L	< 0.0200	< 0.0200	< 0.0200	~~< 0.0200~~	~~< 0.0200~~	< 0.0200									
Cobalt	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	~~< 0.0200~~	~~< 0.0200~~	< 0.0200	< 0.0200								
Cobalt	2010-09	mg/L	< 0.0200	**0.00178 J**	< 0.0200	**0.0100 J**	~~< 0.0200~~	< 0.0200	< 0.0200								
Cobalt	2011-03	mg/L	< 0.0200	**0.00225 J**	**0.0128 J**	**0.0127 J**	~~< 0.0200~~	**0.00558 J**	< 0.0200								
Cobalt	2011-09	mg/L	< 0.0200	**0.00170 J**	**0.00294 J**	**0.0106 J**	~~< 0.0200~~	< 0.0200	< 0.0200								
Cobalt	2012-03	mg/L	< 0.0200	< 0.0200	**0.00401 J**	**0.00794 J**	~~< 0.0200~~	< 0.0200	< 0.0200								
Cobalt	2012-09	mg/L	< 0.0200	**0.00202 J**	**0.00441 J**	**0.0185 J**	~~< 0.0200~~	**0.00227 J**	< 0.0200								
Cobalt	2013-03	mg/L	**0.00292 J**	**0.00624 J**	**0.0121 J**		**0.00199 J**	**0.00281 J**	**0.00148 J**								
Cobalt	2013-05	mg/L															
Cobalt	2013-09	mg/L	< 0.00700	< 0.00700	< 0.00700	**0.0162**	~~< 0.00700~~	< 0.00700	< 0.00700	~~**0.00172 J**~~	< 0.00700	< 0.00700	**0.0278**	**0.0259**	< 0.00700		
Cobalt	2013-11	mg/L								~~< 0.00700 J~~	**0.00281 J**	**0.00144 J**	**0.0351**	**0.00259 J**	< 0.00700		
Cobalt	2014-03	mg/L	< 0.00700	**0.00248 J**	**0.00400 J**	**0.0176**	~~< 0.00700~~	< 0.00700	< 0.00700	~~**0.00163 J**~~	< 0.00700	< 0.00700	**0.0326**	**0.00314 J**	< 0.00700		
Cobalt	2014-06	mg/L								~~< 0.00700~~	< 0.00700	< 0.00700	**0.0253**	**0.00589 J**	< 0.00700		
Cobalt	2014-09	mg/L	**0.0012**	**0.00264**	**0.00269**	**0.00887**	**0.008**	**0.000562**	**0.000079 J**	~~**0.000433 J**~~	**0.000728**	**0.00137**	**0.025**	**0.0166**	**0.00075**		
Cobalt	2015-03	mg/L	**0.000835**	**0.00509**	**0.00312**	**0.00660**	**0.000333 J**	**0.000483 J**	**0.000065 J**	**0.000924**	**0.0000970 J**	**0.0000790 J**	**0.0216**	**0.00263**	**0.0000670 J**		
Cobalt	2015-09	mg/L		**0.00236**		**0.00896**	**0.00337**	**0.000162 J**	< 0.0005								
Cobalt	2015-10	mg/L	**0.00211**		**0.00311**					< 0.0005	**0.000064 J**	**0.000098 J**	**0.0245**	**0.0136**	**0.000095 J**		
Cobalt	2016-03	mg/L	**0.00192**	**0.00275**	**0.00302**	**0.0128**	**0.00687**	**0.000103 J**	< 0.0005	< 0.0005	**0.000242 J**	**0.000085 J**	**0.0162**	**0.00917**	**0.000107 J**		
Cobalt	2016-06	mg/L															

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Cobalt	2016-08	mg/L	0.00141	0.00259	0.000045 J	0.00115	~~0.00539~~	0.00141	0.0049	0.00291	0.00549	~~0.00818~~	0.00421	0.000957	0.00253	0.000379 J	0.000086 J	< 0.0005
Cobalt	2017-03	mg/L	0.00246	0.00261	0.000064 J	0.00145	~~0.00483~~	0.00232	0.00363	0.00201	0.00195	~~0.008~~	0.00085	0.00134	0.00482	0.000131 J	0.000048 J	< 0.0005
Cobalt	2017-08	mg/L	0.00301	0.00224	< 0.0005	0.00359	0.00511	0.00114	0.00362	0.00168	0.00349	0.00619	0.00434	0.00312	0.00257	0.000214 J	< 0.0005	< 0.0005
Cobalt	2017-11	mg/L																
Cobalt	2018-03	mg/L	0.0019	0.00255	0.000047 J	0.00102	0.0044	0.000864	0.00429	0.00178	0.00331	0.00744	0.00181	0.00169	0.00494	0.00041 J	0.000197 J	< 0.0005
Cobalt	2018-06	mg/L																
Cobalt	2018-08	mg/L	0.00213	0.00213	0.000489 J	0.00224		0.000978	0.00399	0.00178	0.00259	0.00496			0.00285	0.000429 J	< 0.0005	< 0.0005
Cobalt	2018-09	mg/L					0.0042						0.00222	0.00266				
Cobalt	2018-11	mg/L																
Cobalt	2019-03	mg/L	0.000521	0.00212	0.000113 J	0.00306	0.00457	0.00136	0.00496	0.00499	0.0154	0.0084	0.000116 J	0.00075	0.000348 J	0.00086	< 0.0005	< 0.0005
Cobalt	2019-08	mg/L	0.000882	0.00184	< 0.0005	0.00175	0.00181	0.000759	0.00222	0.00251	0.00111	0.00303	0.0012	0.0035	0.00188	0.00013 J	< 0.0005	< 0.0005
Cobalt	2020-03	mg/L	0.0018	0.00177	< 0.0005			0.00185		0.00218	0.000836 J	0.00872	0.000107 J	0.00262	0.00251	0.000134 J	< 0.0005	< 0.0005
Cobalt	2020-04	mg/L				0.00226	0.00824		0.00343									
Cobalt	2020-08	mg/L	0.00156	0.0019	< 0.0005	0.00616	0.00638	0.00116	0.00316	0.00196	0.00225	0.00399	0.00288	0.00455	0.00369	0.000216 J	< 0.0005	< 0.0005
Cobalt	2021-03	mg/L							0.00434	0.0025	0.00117	0.00937						
Cobalt	2021-08	mg/L	0.00365	0.00177	0.000274 J	0.00373	0.00537	0.000517	0.00406	0.00211	0.00144	0.00669	0.00118	0.00509	0.00688	0.000844	0.000098 J	0.000103 J
Cobalt	2022-03	mg/L							0.00386	0.00412	0.0015	0.0131						
Cobalt	2022-08	mg/L	0.00191 J	0.00154	< 0.0005	0.00265	0.00228		0.00382	0.00131	0.00313	0.00294	0.00152	0.00394	0.00263	0.000323 J	< 0.0005	< 0.0005
Cobalt	2023-01	mg/L															< 0.0005	
Cobalt	2023-03	mg/L							0.00434	0.00204	0.000748	0.00554					0.000334 J	
Cobalt	2023-08	mg/L	0.00202	0.00177	< 0.0005	0.00282	0.00292		0.00393	0.00155	0.00182	0.00649	0.00176	0.00424	0.00234	0.000395 J	< 0.0005	< 0.0005
Cobalt	2024-03	mg/L							0.00435	0.00163	0.00254	0.00627						
Cobalt	2024-08	mg/L	0.00136	0.00169	< 0.0005	0.0037	0.00294		0.00445	0.00148	0.000804	0.0052	0.00209	0.00137	0.000883	0.000266 J	< 0.0005	< 0.0005
Copper	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	2009-03	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	2009-07	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	2009-09	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	0.0206	0.0208	0.0254	< 0.0200	0.0291	0.0271	0.0225	0.0259	< 0.0200	0.0206	< 0.0200	< 0.0200
Copper	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2013-03	mg/L	< 0.0200	0.00492 J		0.0153 J	< 0.0200		< 0.02	< 0.02	< 0.02	< 0.02	0.00272 J	< 0.02 J	< 0.0200	< 0.0200	< 0.02	< 0.02 J
Copper	2013-05	mg/L			< 0.0200			< 0.0200										
Copper	2013-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200 J	< 0.0200 J	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2013-11	mg/L																
Copper	2014-03	mg/L	< 0.0200	< 0.0200	< 0.0200 J	0.00885 J	0.00168 J	< 0.0200	< 0.0200	0.00491 J	< 0.0200	< 0.0200	< 0.0200	< 0.0200	0.00590 J	0.0550	< 0.0200	0.00243 J
Copper	2014-06	mg/L																
Copper	2014-09	mg/L	< 0.002	< 0.002	< 0.002	0.0176	0.015	< 0.002	< 0.002	0.000836 J	< 0.002	0.000502 J	< 0.002	0.000899 J	0.000837 J	0.00644	0.00115 J	0.000852 J
Copper	2015-03	mg/L	< 0.002	0.00398	< 0.00200 J	0.0205	0.00348	< 0.00200	< 0.00200 J	< 0.00200 J	< 0.002	< 0.002	0.00134 J	0.00197 J	< 0.002	0.00495	< 0.002	< 0.00200
Copper	2015-09	mg/L	< 0.002	0.00104 J		0.0444	0.000961 J	0.000895 J			< 0.002	< 0.002	< 0.002	0.00103 J		< 0.002	< 0.002	
Copper	2015-10	mg/L			< 0.002				< 0.002	< 0.002 J					0.00144 J			< 0.002
Copper	2016-01	mg/L				0.0440												
Copper	2016-03	mg/L	< 0.005	< 0.005	< 0.005	0.0396	0.00275 J	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00144 J	< 0.005 J	0.0013 J	0.00192 J	0.0013 J	< 0.005
Copper	2016-06	mg/L			< 0.005	0.0341												
Copper	2016-08	mg/L	< 0.005	< 0.005	< 0.005	0.0983	0.00154 J	< 0.005	0.00253 J	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00178 J	< 0.005	< 0.005
Copper	2017-03	mg/L	< 0.005	< 0.005	< 0.005	0.0292	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2017-08	mg/L	< 0.005	< 0.005	< 0.005	0.0234	0.00261 J	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2017-11	mg/L																
Copper	2018-03	mg/L	< 0.005	0.00459 J	< 0.005	0.0452	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2018-06	mg/L																
Copper	2018-08	mg/L	< 0.005	< 0.005	< 0.005	0.0486		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Copper	2018-09	mg/L					< 0.005						< 0.005	< 0.005				
Copper	2018-11	mg/L																
Copper	2019-03	mg/L	< 0.005	< 0.005	< 0.005	0.0339	0.00344 J	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2019-08	mg/L	< 0.005	< 0.005	< 0.005	0.101	0.0112	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Cobalt	2016-08	mg/L	0.0012	0.00252	0.00295	0.0128	0.00192	0.00024 J	< 0.0005	0.000081 J	0.000078 J	0.000097 J	0.0181	0.0224	0.000206 J		
Cobalt	2017-03	mg/L	0.00176	0.00284	0.00298	0.0136	0.00318	0.00011 J	0.000119 J	< 0.0005	0.00007 J	0.000281 J	0.0099	0.0127	0.000062 J		
Cobalt	2017-08	mg/L	0.000944	0.00207	0.00291	0.00823	0.00262	0.00009 J	< 0.0005	< 0.0005	0.000053 J	0.000086 J	0.0187	0.0208	0.000262 J		
Cobalt	2017-11	mg/L														0.000103 J	0.00143
Cobalt	2018-03	mg/L	0.00163	0.00477	0.0105	0.00771	0.00199	0.000112 J	< 0.0005	0.000046 J	< 0.0005	0.000063 J	0.0177	0.00358	0.000084 J	0.00019 J	0.000674
Cobalt	2018-06	mg/L			0.00591											0.00024 J	0.00053
Cobalt	2018-08	mg/L	0.00105	0.0021	0.00356	0.00919	~~0.00709~~	0.000085 J	< 0.0005	< 0.0005		< 0.0005	0.0213	0.00937			
Cobalt	2018-09	mg/L													0.000141 J	0.000119 J	0.000447 J
Cobalt	2018-11	mg/L														0.000096 J	0.000287 J
Cobalt	2019-03	mg/L	0.00219	0.00132	0.00292	0.00952	0.000184 J	0.000249 J	< 0.0005	< 0.0005		< 0.0005	0.0196	0.00222	0.000093 J	0.00025 J	0.000132 J
Cobalt	2019-08	mg/L	0.000451 J	0.00218	0.00278	0.0083	0.000492 J	0.000098 J	< 0.0005	< 0.0005	0.00011 J	0.000092 J	0.0158	0.0475	< 0.0005	< 0.0005	0.000279 J
Cobalt	2020-03	mg/L	0.00073	0.00241		0.0136	0.000272 J	0.000206 J	< 0.0005	0.000094 J	0.000299 J	< 0.0005	0.0175		0.000146 J	0.000726	0.000362 J
Cobalt	2020-04	mg/L			0.00795									0.0059			
Cobalt	2020-08	mg/L	0.000304 J	0.00265	0.00404	0.0064	0.000338 J	< 0.0005	< 0.0005	< 0.0005			0.0143	0.0292	0.000135 J		0.000371 J
Cobalt	2021-03	mg/L		0.00395			0.000191 J			0.000776							
Cobalt	2021-08	mg/L	0.00166	0.0024	0.00486	0.00654	0.000319 J	0.000182 J	0.000094 J	0.000139 J			0.00794	0.0271	0.00159		0.000384 J
Cobalt	2022-03	mg/L		0.0146			0.000648			< 0.0005							
Cobalt	2022-08	mg/L	0.000636	0.00262	0.00354	0.00467	0.000251 J	< 0.0005	< 0.0005	< 0.0005			0.00471	0.0234	0.00105		0.000522
Cobalt	2023-01	mg/L															
Cobalt	2023-03	mg/L		0.00354			< 0.0005			~~0.000419 J~~							
Cobalt	2023-08	mg/L	0.00074	0.00238	0.00377	0.00535	< 0.0005	0.000232 J	< 0.0005	0.000387 J			0.00445	0.00913	0.00063		0.000296 J
Cobalt	2024-03	mg/L		0.00305			0.000177 J			0.000391 J							
Cobalt	2024-08	mg/L	0.00179	0.00845	0.0034	0.00389	< 0.0005	< 0.0005	< 0.0005	0.000513			0.00424	0.03	0.000569		0.000307 J
Copper	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05								
Copper	2009-03	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02								
Copper	2009-07	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02								
Copper	2009-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200									
Copper	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Copper	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Copper	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Copper	2011-09	mg/L	< 0.0200	0.0377	0.0248	0.0364	0.0225	< 0.0200	0.0301								
Copper	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Copper	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Copper	2013-03	mg/L	< 0.02	0.00274 J	0.0166 J		< 0.0200	< 0.02 J	< 0.02 J								
Copper	2013-05	mg/L															
Copper	2013-09	mg/L	< 0.0200	< 0.0200 J	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	0.00288 J	0.00876 J	< 0.0200	0.00337 J		
Copper	2013-11	mg/L								~~< 0.0200 J~~	0.00465 J	0.00342 J	0.0122 J	0.00385 J	0.00349 J		
Copper	2014-03	mg/L	< 0.0200	0.00376 J	< 0.0200	0.00248 J	< 0.0200	< 0.0200	0.00229 J	~~0.00264 J~~	0.00246 J	< 0.0200	0.00645 J	0.00315 J	0.00376 J		
Copper	2014-06	mg/L								~~< 0.0200~~	< 0.0200	< 0.0200	0.00958 J	< 0.0200	< 0.0200		
Copper	2014-09	mg/L	< 0.002	0.00191 J	< 0.002	0.00193 J	0.000867 J	0.000727 J	< 0.002	~~< 0.002~~	0.000903 J	0.000506 J	0.00612	0.000904 J	0.00111 J		
Copper	2015-03	mg/L	< 0.00200	0.00463	< 0.00200 J	< 0.00200 J	< 0.002	0.00387	< 0.002	< 0.00200 J	< 0.00200 J	< 0.00200 J	0.00736	< 0.00200	< 0.00200 J		
Copper	2015-09	mg/L		0.000512 J		< 0.002	< 0.002	< 0.002	< 0.002								
Copper	2015-10	mg/L	< 0.002		< 0.002					< 0.002	< 0.002 J	< 0.002 J	0.00597	0.000538 J	0.000489 J		
Copper	2016-01	mg/L															
Copper	2016-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00956	< 0.005	< 0.005		
Copper	2016-06	mg/L															
Copper	2016-08	mg/L	< 0.005	< 0.005	0.00136 J	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00938	< 0.005	< 0.005		
Copper	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00733	< 0.005	< 0.005		
Copper	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0101	< 0.005	< 0.005		
Copper	2017-11	mg/L														< 0.005	< 0.005
Copper	2018-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00463 J	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2018-06	mg/L														< 0.005	< 0.005
Copper	2018-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	0.015	< 0.005			
Copper	2018-09	mg/L													< 0.005	< 0.005	< 0.005
Copper	2018-11	mg/L														< 0.005	< 0.005
Copper	2019-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	0.00502	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2019-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00905	< 0.005	< 0.005	< 0.005	< 0.005

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Copper	2020-03	mg/L	< 0.005	< 0.005	< 0.005			< 0.005		< 0.005	< 0.02	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2020-04	mg/L				**0.0268**	**0.00577**		< 0.005									
Copper	2020-08	mg/L	< 0.005	< 0.005	< 0.005	**0.0424**	**0.00536**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00164 J**	< 0.005	< 0.005	< 0.005
Copper	2021-03	mg/L							< 0.005	< 0.005	< 0.005	< 0.005						
Copper	2021-08	mg/L	< 0.005	**0.00179 J**	< 0.005	**0.0291**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2022-03	mg/L							< 0.005	< 0.02	< 0.005	< 0.005						
Copper	2022-08	mg/L	< 0.005 J	< 0.005	< 0.005	**0.112**	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0037 J**	< 0.005	< 0.005
Copper	2023-01	mg/L															< 0.005	
Copper	2023-03	mg/L							< 0.005	< 0.005	< 0.005	< 0.005					**0.00213 J**	
Copper	2023-08	mg/L	< 0.005	< 0.005	< 0.005	**0.0378**	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0021 J**	< 0.005	< 0.005	< 0.005
Copper	2024-03	mg/L							< 0.005	< 0.005	< 0.005	< 0.005						
Copper	2024-08	mg/L	< 0.005	< 0.005	< 0.005	**0.0917**	**0.00503**		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00228 J**	**0.0212**	< 0.005	< 0.005
Cyanide	2008-08	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	2009-03	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	2010-09	mg/L	< 0.0100	< 0.0100	< 0.0100			< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100		< 0.0100	< 0.0100	< 0.0100	< 0.0100	
Cyanide	2015-09	mg/L	< 0.01	< 0.01			< 0.01	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	
Cyanide	2015-10	mg/L							< 0.01	< 0.01					< 0.01			< 0.01
Cyanide	2016-03	mg/L			< 0.01	< 0.01												
Cyanide	2016-06	mg/L			< 0.01	**0.00416 J**												
Cyanide	2020-08	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	2023-01	mg/L															< 0.01	
Cyanide	2023-03	mg/L															< 0.01	
delta-BHC	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
delta-BHC	2008-09	ug/L		< 0.016	**0.018**												< 0.16	
delta-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
delta-BHC	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
delta-BHC	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
delta-BHC	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
delta-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
delta-BHC	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
delta-BHC	2012-03	ug/L			< 0.0320													
delta-BHC	2012-09	ug/L			< 0.0320													
delta-BHC	2013-03	ug/L																
delta-BHC	2013-05	ug/L			< 0.0352													
delta-BHC	2013-09	ug/L			< 0.0327													
delta-BHC	2014-03	ug/L																
delta-BHC	2015-09	ug/L	< 0.036	< 0.0356			**0.00412 J**	< 0.0386			**0.00438 J**	**0.00372 J**	< 0.0333	< 0.036		< 0.0356	< 0.0376	
delta-BHC	2015-10	ug/L							**0.00356 J**	**0.00383 J**					< 0.0386			< 0.0368
delta-BHC	2016-03	ug/L			**0.0103 J**	**0.00264 J**												
delta-BHC	2016-06	ug/L			< 0.0364	**0.00283 J**												
delta-BHC	2016-08	ug/L			< 0.0372													
delta-BHC	2017-03	ug/L			< 0.168													
delta-BHC	2017-08	ug/L			< 0.0337													
delta-BHC	2018-03	ug/L			**0.00694 J**													
delta-BHC	2018-08	ug/L			< 0.00373													
delta-BHC	2019-03	ug/L			< 0.0327													
delta-BHC	2019-08	ug/L			< 0.034													
delta-BHC	2020-03	ug/L			< 0.0368													
delta-BHC	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	**0.00273 J**	< 0.0376	**0.00312 J**	< 0.0376	**0.0085 J**	**0.00525 J**	**0.00308 J**	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
delta-BHC	2021-08	ug/L			< 0.039													
delta-BHC	2022-08	ug/L			< 0.0667													
delta-BHC	2023-01	ug/L															< 0.0727	
delta-BHC	2023-03	ug/L															< 0.0667	
delta-BHC	2023-08	ug/L			< 0.0744													
delta-BHC	2024-08	ug/L			< 0.064													
Diallate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Diallate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Copper	2020-03	mg/L	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00598**		< 0.005	**0.00475 J**	< 0.005
Copper	2020-04	mg/L			< 0.005									< 0.005			
Copper	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			**0.0101**	< 0.005	< 0.005		< 0.005
Copper	2021-03	mg/L		**0.00199 J**			< 0.005			**0.00144 J**							
Copper	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			**0.0107**	< 0.005	**0.00692**		< 0.005
Copper	2022-03	mg/L		< 0.02			< 0.005			< 0.005							
Copper	2022-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			**0.00826**	< 0.005	< 0.005		< 0.005
Copper	2023-01	mg/L															
Copper	2023-03	mg/L		**0.00222 J**			< 0.005			~~**0.00284 J**~~							
Copper	2023-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			**0.00876**	< 0.005	< 0.005		< 0.005
Copper	2024-03	mg/L		**0.00261 J**			< 0.005			< 0.005							
Copper	2024-08	mg/L	< 0.005	**0.00222 J**	**0.0028 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			**0.00731**	< 0.005	< 0.005		< 0.005
Cyanide	2008-08	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01								
Cyanide	2009-03	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01								
Cyanide	2010-09	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100										
Cyanide	2015-09	mg/L		< 0.01		< 0.01	< 0.01	< 0.01	< 0.01								
Cyanide	2015-10	mg/L	< 0.01		< 0.01					< 0.01							
Cyanide	2016-03	mg/L					< 0.01			< 0.01							
Cyanide	2016-06	mg/L															
Cyanide	2020-08	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01							
Cyanide	2023-01	mg/L															
Cyanide	2023-03	mg/L					< 0.01			< 0.01							
delta-BHC	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
delta-BHC	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
delta-BHC	2009-03	ug/L	< 0.032	< 0.07	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
delta-BHC	2009-07	ug/L					< 0.0320		< 0.0320								
delta-BHC	2009-09	ug/L					< 0.0320		< 0.0320								
delta-BHC	2010-03	ug/L					< 0.0320		< 0.0320								
delta-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
delta-BHC	2011-03	ug/L					< 0.0320										
delta-BHC	2012-03	ug/L					< 0.0320		< 0.0320								
delta-BHC	2012-09	ug/L															
delta-BHC	2013-03	ug/L					< 0.0333										
delta-BHC	2013-05	ug/L															
delta-BHC	2013-09	ug/L															
delta-BHC	2014-03	ug/L					**0.00415 J**										
delta-BHC	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
delta-BHC	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
delta-BHC	2016-03	ug/L					**0.0189 J**			< 0.0356							
delta-BHC	2016-06	ug/L															
delta-BHC	2016-08	ug/L					< 0.0356			< 0.0356							
delta-BHC	2017-03	ug/L					< 0.0337			< 0.0372							
delta-BHC	2017-08	ug/L					< 0.0356			< 0.0356							
delta-BHC	2018-03	ug/L					< 0.0444			< 0.0372							
delta-BHC	2018-08	ug/L					< 0.0451			< 0.0381							
delta-BHC	2019-03	ug/L					< 0.039			< 0.0395							
delta-BHC	2019-08	ug/L					< 0.0346			< 0.034							
delta-BHC	2020-03	ug/L					< 0.0427			< 0.0376							
delta-BHC	2020-08	ug/L	< 0.039	**0.0115 J**	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
delta-BHC	2021-08	ug/L					< 0.04			< 0.0368							
delta-BHC	2022-08	ug/L					< 0.0667			< 0.0604							
delta-BHC	2023-01	ug/L															
delta-BHC	2023-03	ug/L					< 0.0696			< 0.064							
delta-BHC	2023-08	ug/L					< 0.0604			< 0.0711							
delta-BHC	2024-08	ug/L					< 0.064			< 0.0696							
Diallate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Diallate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Diallate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Diallate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Diallate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Diallate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Diallate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Diallate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Diallate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Diallate	2016-03	ug/L			< 11.1	< 11.2												
Diallate	2016-06	ug/L			< 11.4	< 11.4												
Diallate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Diallate	2023-01	ug/L															< 10.9	
Diallate	2023-03	ug/L															< 10.4	
Dibenzo(a,h)anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Dibenzo(a,h)anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzo(a,h)anthracene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Dibenzo(a,h)anthracene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Dibenzo(a,h)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Dibenzo(a,h)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Dibenzo(a,h)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Dibenzo(a,h)anthracene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Dibenzo(a,h)anthracene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Dibenzo(a,h)anthracene	2016-03	ug/L			< 11.1	< 11.2												
Dibenzo(a,h)anthracene	2016-06	ug/L			< 11.4	< 11.4												
Dibenzo(a,h)anthracene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Dibenzo(a,h)anthracene	2023-01	ug/L															< 10.9	
Dibenzo(a,h)anthracene	2023-03	ug/L															< 10.4	
Dibenzofuran	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Dibenzofuran	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Dibenzofuran	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Dibenzofuran	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Dibenzofuran	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Dibenzofuran	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Dibenzofuran	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Dibenzofuran	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Dibenzofuran	2016-03	ug/L			< 11.1	< 11.2												
Dibenzofuran	2016-06	ug/L			< 11.4	< 11.4												
Dibenzofuran	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Dibenzofuran	2023-01	ug/L															< 10.9	
Dibenzofuran	2023-03	ug/L															< 10.4	
Dibromomethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Dibromomethane	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Dibromomethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
Dibromomethane	2013-05	ug/L			< 1.00			< 1.00										
Dibromomethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2013-11	ug/L																
Dibromomethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2014-06	ug/L																
Dibromomethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Diallate	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Diallate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Diallate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Diallate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Diallate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Diallate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Diallate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Diallate	2016-03	ug/L					< 10.9			< 11.2							
Diallate	2016-06	ug/L															
Diallate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Diallate	2023-01	ug/L															
Diallate	2023-03	ug/L					< 10			< 10							
Dibenzo(a,h)anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Dibenzo(a,h)anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Dibenzo(a,h)anthracene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Dibenzo(a,h)anthracene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dibenzo(a,h)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dibenzo(a,h)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Dibenzo(a,h)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Dibenzo(a,h)anthracene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Dibenzo(a,h)anthracene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Dibenzo(a,h)anthracene	2016-03	ug/L					< 10.9			< 11.2							
Dibenzo(a,h)anthracene	2016-06	ug/L															
Dibenzo(a,h)anthracene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Dibenzo(a,h)anthracene	2023-01	ug/L															
Dibenzo(a,h)anthracene	2023-03	ug/L					< 10			< 10							
Dibenzofuran	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Dibenzofuran	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Dibenzofuran	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Dibenzofuran	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dibenzofuran	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dibenzofuran	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Dibenzofuran	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Dibenzofuran	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Dibenzofuran	2015-10	ug/L	< 11.8		< 10.3					< 11							
Dibenzofuran	2016-03	ug/L					< 10.9			< 11.2							
Dibenzofuran	2016-06	ug/L															
Dibenzofuran	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Dibenzofuran	2023-01	ug/L															
Dibenzofuran	2023-03	ug/L					< 10			< 10							
Dibromomethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Dibromomethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Dibromomethane	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Dibromomethane	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Dibromomethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Dibromomethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Dibromomethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Dibromomethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Dibromomethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Dibromomethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Dibromomethane	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
Dibromomethane	2013-05	ug/L															
Dibromomethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Dibromomethane	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
Dibromomethane	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Dibromomethane	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
Dibromomethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2016-06	ug/L			< 1	< 1												
Dibromomethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2017-11	ug/L																
Dibromomethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2018-06	ug/L																
Dibromomethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Dibromomethane	2018-09	ug/L					< 1						< 1	< 1				
Dibromomethane	2018-11	ug/L																
Dibromomethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2020-04	ug/L				< 1	< 1		< 1									
Dibromomethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2021-03	ug/L							< 1	< 1	< 1	< 1						
Dibromomethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2022-03	ug/L							< 1	< 1	< 1	< 1						
Dibromomethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2023-01	ug/L															< 1	
Dibromomethane	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
Dibromomethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2024-03	ug/L							< 1	< 1	< 1	< 1						
Dibromomethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	2008-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	2009-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	2009-07	ug/L	< 3	< 3.00		< 3		< 3	< 3	< 3	< 3	< 3	< 3.00	< 3.00	< 3	< 3	< 3	
Dichlorodifluoromethane	2009-09	ug/L	< 3	< 3.00		< 3.00		< 3.00	< 3.00	< 15.0	< 3.00	< 3	< 3	< 3	< 3	< 3	< 3	
Dichlorodifluoromethane	2010-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Dichlorodifluoromethane	2010-09	ug/L	< 3.00	< 3.00	< 3.00			< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		< 3.00	< 3.00	< 3.00	< 3.00	
Dichlorodifluoromethane	2011-03	ug/L	< 3.00	< 3.00	< 3.00			< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	
Dichlorodifluoromethane	2012-09	ug/L														< 3.00		
Dichlorodifluoromethane	2015-09	ug/L	< 3	< 3			< 3	< 3			< 3	< 3	< 3	< 3		< 3	< 3	
Dichlorodifluoromethane	2015-10	ug/L							< 3	< 3					< 3			< 3
Dichlorodifluoromethane	2016-03	ug/L			< 3	< 3												
Dichlorodifluoromethane	2016-06	ug/L			< 3	< 3												
Dichlorodifluoromethane	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	2023-01	ug/L															< 3	
Dichlorodifluoromethane	2023-03	ug/L															< 3	
Dieldrin	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	**0.15**	< 0.058	< 0.053		< 0.053
Dieldrin	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
Dieldrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Dieldrin	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Dieldrin	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Dieldrin	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Dieldrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Dieldrin	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Dieldrin	2011-09	ug/L												< 0.0320				
Dieldrin	2012-03	ug/L												< 0.0320				
Dieldrin	2012-09	ug/L												< 0.0320				
Dieldrin	2013-03	ug/L												< 0.036				
Dieldrin	2013-09	ug/L												< 0.0360				
Dieldrin	2014-03	ug/L												< 0.0348				

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Dibromomethane	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
Dibromomethane	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
Dibromomethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Dibromomethane	2016-06	ug/L															
Dibromomethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Dibromomethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Dibromomethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Dibromomethane	2017-11	ug/L														< 1	< 1
Dibromomethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2018-06	ug/L														< 1	< 1
Dibromomethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
Dibromomethane	2018-09	ug/L													< 1	< 1	< 1
Dibromomethane	2018-11	ug/L														< 1	< 1
Dibromomethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Dibromomethane	2020-04	ug/L			< 1									< 1			
Dibromomethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Dibromomethane	2021-03	ug/L		< 1			< 1			< 1							
Dibromomethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Dibromomethane	2022-03	ug/L		< 1			< 1			< 1							
Dibromomethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Dibromomethane	2023-01	ug/L															
Dibromomethane	2023-03	ug/L		< 1			< 1			< 1							
Dibromomethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Dibromomethane	2024-03	ug/L		< 1			< 1			< 1							
Dibromomethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Dichlorodifluoromethane	2008-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3								
Dichlorodifluoromethane	2009-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3								
Dichlorodifluoromethane	2009-07	ug/L	< 3.00	< 3	< 3	< 3	< 3.00										
Dichlorodifluoromethane	2009-09	ug/L	< 3.00	< 15.0	< 3.00	< 3.00	< 3.00										
Dichlorodifluoromethane	2010-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Dichlorodifluoromethane	2010-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00										
Dichlorodifluoromethane	2011-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00									
Dichlorodifluoromethane	2012-09	ug/L				< 3.00											
Dichlorodifluoromethane	2015-09	ug/L		< 3		< 3	< 3	< 3	< 3								
Dichlorodifluoromethane	2015-10	ug/L	< 3		< 3					< 3							
Dichlorodifluoromethane	2016-03	ug/L					< 3			< 3							
Dichlorodifluoromethane	2016-06	ug/L															
Dichlorodifluoromethane	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3							
Dichlorodifluoromethane	2023-01	ug/L															
Dichlorodifluoromethane	2023-03	ug/L					< 3			< 3							
Dieldrin	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Dieldrin	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Dieldrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Dieldrin	2009-07	ug/L					< 0.0320		< 0.0320								
Dieldrin	2009-09	ug/L					< 0.0320		< 0.0320								
Dieldrin	2010-03	ug/L					< 0.0320		< 0.0320								
Dieldrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Dieldrin	2011-03	ug/L					< 0.0320										
Dieldrin	2011-09	ug/L					< 0.0320										
Dieldrin	2012-03	ug/L					< 0.0320		< 0.0320								
Dieldrin	2012-09	ug/L															
Dieldrin	2013-03	ug/L					< 0.0333										
Dieldrin	2013-09	ug/L															
Dieldrin	2014-03	ug/L					< 0.0348										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Dieldrin	2014-09	ug/L												< 0.0348				
Dieldrin	2015-03	ug/L												< 0.0348				
Dieldrin	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			**0.00215 J**	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Dieldrin	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Dieldrin	2016-03	ug/L			< 0.032	< 0.0356								**0.00261 J**				
Dieldrin	2016-06	ug/L			< 0.0364	< 0.0364												
Dieldrin	2016-08	ug/L												< 0.036				
Dieldrin	2017-03	ug/L												< 0.0333				
Dieldrin	2017-08	ug/L												**0.00366 J**				
Dieldrin	2018-03	ug/L												< 0.036				
Dieldrin	2018-08	ug/L																
Dieldrin	2018-09	ug/L												**0.00424 J**				
Dieldrin	2019-03	ug/L												**0.00365 J**				
Dieldrin	2019-08	ug/L												**0.00341 J**				
Dieldrin	2020-03	ug/L												**0.00309 J**				
Dieldrin	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.0416	< 0.0376	< 0.0368	< 0.0386	**0.00437 J**	< 0.0395	< 0.039	< 0.0381	< 0.04
Dieldrin	2021-08	ug/L												< 0.0386				
Dieldrin	2022-08	ug/L												< 0.064				
Dieldrin	2023-01	ug/L															< 0.0727	
Dieldrin	2023-03	ug/L															< 0.0667	
Dieldrin	2023-08	ug/L												< 0.0744				
Dieldrin	2024-08	ug/L												< 0.064				
Diethylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Diethylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diethylphthalate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Diethylphthalate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Diethylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Diethylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Diethylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	**0.260**	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Diethylphthalate	2011-09	ug/L									< 10.0 J							
Diethylphthalate	2012-03	ug/L									< 10.0							
Diethylphthalate	2012-09	ug/L									< 10.0							
Diethylphthalate	2013-03	ug/L									< 10.6							
Diethylphthalate	2013-09	ug/L									< 10.6							
Diethylphthalate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Diethylphthalate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Diethylphthalate	2016-03	ug/L			< 11.1	**0.299 J**												
Diethylphthalate	2016-06	ug/L			< 11.4	**0.412 J**												
Diethylphthalate	2019-03	ug/L									< 11							
Diethylphthalate	2019-08	ug/L									< 10.6							
Diethylphthalate	2020-03	ug/L									< 10.8							
Diethylphthalate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Diethylphthalate	2022-08	ug/L																
Diethylphthalate	2023-01	ug/L															< 10.9	
Diethylphthalate	2023-03	ug/L															< 10.4	
Dimethoate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Dimethoate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dimethoate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Dimethoate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Dimethoate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Dimethoate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Dimethoate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Dimethoate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Dimethoate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Dimethoate	2016-03	ug/L			< 11.1	< 11.2												
Dimethoate	2016-06	ug/L			< 11.4	< 11.4												
Dimethoate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Table 14
Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Dieldrin	2014-09	ug/L					< 0.032										
Dieldrin	2015-03	ug/L					< 0.036										
Dieldrin	2015-09	ug/L		**0.00337 J**		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
Dieldrin	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
Dieldrin	2016-03	ug/L					< 0.0333			< 0.0356							
Dieldrin	2016-06	ug/L															
Dieldrin	2016-08	ug/L					< 0.0356			< 0.0356							
Dieldrin	2017-03	ug/L					< 0.0337			< 0.0372							
Dieldrin	2017-08	ug/L					< 0.0356			< 0.0356							
Dieldrin	2018-03	ug/L					< 0.0444			< 0.0372							
Dieldrin	2018-08	ug/L					< 0.0451			< 0.0381							
Dieldrin	2018-09	ug/L															
Dieldrin	2019-03	ug/L					< 0.039			< 0.0395							
Dieldrin	2019-08	ug/L					< 0.0346			< 0.034							
Dieldrin	2020-03	ug/L					< 0.0427			< 0.0376							
Dieldrin	2020-08	ug/L	< 0.039	**0.00243 J**	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Dieldrin	2021-08	ug/L					< 0.04			< 0.0368							
Dieldrin	2022-08	ug/L					< 0.0667			< 0.0604							
Dieldrin	2023-01	ug/L															
Dieldrin	2023-03	ug/L					< 0.0696			< 0.064							
Dieldrin	2023-08	ug/L					< 0.0604			< 0.0711							
Dieldrin	2024-08	ug/L					< 0.064			< 0.0696							
Diethylphthalate	2008-08	ug/L	< 10	**1.52 J**	< 10	< 10	< 10	< 11.1	< 10								
Diethylphthalate	2009-03	ug/L	< 10	**1.4 J**	< 10	< 10	< 10	< 10	< 10								
Diethylphthalate	2009-07	ug/L	< 10.0	**1.74 J**	< 10	< 10	< 10.0	< 11.4	< 10.0								
Diethylphthalate	2009-09	ug/L	< 10.0	**2.63 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Diethylphthalate	2010-03	ug/L	< 10.0	**0.403 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Diethylphthalate	2010-09	ug/L	< 10.0	**2.51 J**	< 10.0	< 10.0	< 10.0										
Diethylphthalate	2011-03	ug/L	< 10.0	**1.71 J**	< 10.0	< 10.0	< 10.0	< 10.0									
Diethylphthalate	2011-09	ug/L		< 10.0 J			< 10.0										
Diethylphthalate	2012-03	ug/L		**0.662 J**			< 10.0										
Diethylphthalate	2012-09	ug/L		**0.584 J**			< 10.0										
Diethylphthalate	2013-03	ug/L		< 10.5			< 11.8										
Diethylphthalate	2013-09	ug/L		< 10.1													
Diethylphthalate	2015-09	ug/L		**0.784 J**		< 11.2	< 11.6	< 11.2	< 11.2								
Diethylphthalate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Diethylphthalate	2016-03	ug/L					< 10.9			< 11.2							
Diethylphthalate	2016-06	ug/L															
Diethylphthalate	2019-03	ug/L															
Diethylphthalate	2019-08	ug/L					< 10.8			< 10.9							
Diethylphthalate	2020-03	ug/L					< 13.7			< 12.5							
Diethylphthalate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Diethylphthalate	2022-08	ug/L					< 10.4			< 10							
Diethylphthalate	2023-01	ug/L															
Diethylphthalate	2023-03	ug/L					< 10			< 10							
Dimethoate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Dimethoate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Dimethoate	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Dimethoate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dimethoate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dimethoate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Dimethoate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Dimethoate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Dimethoate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Dimethoate	2016-03	ug/L					< 10.9			< 11.2							
Dimethoate	2016-06	ug/L															
Dimethoate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Dimethoate	2023-01	ug/L															< 10.9	
Dimethoate	2023-03	ug/L															< 10.4	
Dimethylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Dimethylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dimethylphthalate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Dimethylphthalate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Dimethylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Dimethylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Dimethylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Dimethylphthalate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Dimethylphthalate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Dimethylphthalate	2016-03	ug/L			< 11.1	< 11.2												
Dimethylphthalate	2016-06	ug/L			< 11.4	< 11.4												
Dimethylphthalate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Dimethylphthalate	2023-01	ug/L															< 10.9	
Dimethylphthalate	2023-03	ug/L															< 10.4	
Di-n-butylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	**1.33 J**	< 10	< 10	< 10	< 11.1	< 10
Di-n-butylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	**1.33 J**	< 10	**5.56 J**	< 10	< 10	**1.37 J**	< 10	< 10	< 10	< 10	< 10
Di-n-butylphthalate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Di-n-butylphthalate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Di-n-butylphthalate	2010-03	ug/L	**0.983 J**	**1.05 J**	**0.855 J**	**1.05 J**	**1.49 J**	**0.906 J**		**0.773 J**			**1.17 J**		**0.931 J**	**0.871 J**	**0.939 J**	**1.90 J**
Di-n-butylphthalate	2010-09	ug/L	< 0.844 U	< 0.630 U	< 10.0			< 10.0	< 10.0	< 10.0	< 0.738 U	< 0.824 U		< 1.01 U	< 0.670 U	< 0.700 U	< 0.808 U	
Di-n-butylphthalate	2011-03	ug/L	**0.819 J**	< 10.0	< 10.0			< 10.0		< 10.0	**0.732 J**	**0.559 J**	< 10.0		< 10.0	< 10.0	< 10.0	
Di-n-butylphthalate	2011-09	ug/L	< 10.0 J	< 10.0				< 10.0 J		**0.726 J**	**0.849 J**	**0.887 J**	< 10.0		< 10.0 J	< 10.0 J	**0.564 J**	
Di-n-butylphthalate	2012-03	ug/L	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J		< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J		< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J
Di-n-butylphthalate	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 11.1	< 10.0
Di-n-butylphthalate	2013-03	ug/L	< 10.9	< 10.2 J		< 11.0 J	< 11.0 J			< 10.8	**4.84 J**	< 10.6	< 10.5 J		< 10.5 J	< 11.0	**0.673 J**	< 10.2 J
Di-n-butylphthalate	2013-05	ug/L			**0.594 J**			**1.07 J**										
Di-n-butylphthalate	2013-09	ug/L	< 11.0	< 10.2	< 10.2	< 10.3	< 10.4	< 10.2		< 10.4	< 10.6	< 10.2	< 10.3		< 11.4	< 11.2	< 12.8	< 10.2
Di-n-butylphthalate	2014-03	ug/L																
Di-n-butylphthalate	2014-09	ug/L																
Di-n-butylphthalate	2015-03	ug/L																
Di-n-butylphthalate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Di-n-butylphthalate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Di-n-butylphthalate	2016-03	ug/L			< 11.1	< 11.2												
Di-n-butylphthalate	2016-06	ug/L			< 11.4	< 11.4												
Di-n-butylphthalate	2016-08	ug/L																
Di-n-butylphthalate	2017-03	ug/L																
Di-n-butylphthalate	2017-08	ug/L																
Di-n-butylphthalate	2018-03	ug/L																
Di-n-butylphthalate	2018-08	ug/L																
Di-n-butylphthalate	2019-03	ug/L																
Di-n-butylphthalate	2019-08	ug/L																
Di-n-butylphthalate	2020-03	ug/L																
Di-n-butylphthalate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Di-n-butylphthalate	2021-08	ug/L																
Di-n-butylphthalate	2022-08	ug/L																
Di-n-butylphthalate	2023-01	ug/L															< 10.9	
Di-n-butylphthalate	2023-03	ug/L															< 10.4	
Di-n-butylphthalate	2023-08	ug/L																
Di-n-butylphthalate	2024-08	ug/L																
Di-n-octylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Di-n-octylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Di-n-octylphthalate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Di-n-octylphthalate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Di-n-octylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	**0.624 J**
Di-n-octylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Dimethoate	2023-01	ug/L															
Dimethoate	2023-03	ug/L					< 10			< 10							
Dimethylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Dimethylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Dimethylphthalate	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Dimethylphthalate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dimethylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dimethylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Dimethylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Dimethylphthalate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Dimethylphthalate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Dimethylphthalate	2016-03	ug/L					< 10.9			< 11.2							
Dimethylphthalate	2016-06	ug/L															
Dimethylphthalate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Dimethylphthalate	2023-01	ug/L															
Dimethylphthalate	2023-03	ug/L					< 10			< 10							
Di-n-butylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Di-n-butylphthalate	2009-03	ug/L	< 10	< 10	**8.17 J**	< 10	< 10	< 10	< 10								
Di-n-butylphthalate	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Di-n-butylphthalate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Di-n-butylphthalate	2010-03	ug/L	**1.00 J**	**1.12 J**	**0.900 J**	**1.08 J**	**1.47 J**	**0.877 J**	**0.909 J**								
Di-n-butylphthalate	2010-09	ug/L	< 0.781 U	**0.802 J**	< 0.962 U	**0.918 J**	**0.600 J**										
Di-n-butylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**1.01 J**									
Di-n-butylphthalate	2011-09	ug/L	< 10.0 J	**0.596 J**	< 10.0 J	< 10.0 J	< 10.0	**15.1**									
Di-n-butylphthalate	2012-03	ug/L	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J								
Di-n-butylphthalate	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Di-n-butylphthalate	2013-03	ug/L	< 10.2	< 10.5	< 10.6 J		< 11.8 J	< 11.1 J	< 10 J								
Di-n-butylphthalate	2013-05	ug/L															
Di-n-butylphthalate	2013-09	ug/L	< 10.4	< 10.1	< 11.0	< 11.0	< 10.6	< 10.1	< 11.2								
Di-n-butylphthalate	2014-03	ug/L					< 11.2	< 10.4									
Di-n-butylphthalate	2014-09	ug/L					< 11	< 10.2									
Di-n-butylphthalate	2015-03	ug/L					< 11	< 10.5									
Di-n-butylphthalate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Di-n-butylphthalate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Di-n-butylphthalate	2016-03	ug/L					< 10.9	< 11.9		< 11.2							
Di-n-butylphthalate	2016-06	ug/L															
Di-n-butylphthalate	2016-08	ug/L					< 11.8	< 10		< 10.6							
Di-n-butylphthalate	2017-03	ug/L					< 10.5	< 10.5		< 10.9							
Di-n-butylphthalate	2017-08	ug/L					< 10.6	< 10.9		< 10.4							
Di-n-butylphthalate	2018-03	ug/L					< 12.5	< 11.1		< 12.3							
Di-n-butylphthalate	2018-08	ug/L					< 13.2	< 11		< 10.6							
Di-n-butylphthalate	2019-03	ug/L					< 13	< 11.1		< 11.1							
Di-n-butylphthalate	2019-08	ug/L					< 10.8	< 10.8		< 10.9							
Di-n-butylphthalate	2020-03	ug/L					< 13.7	< 11.1		< 12.5							
Di-n-butylphthalate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Di-n-butylphthalate	2021-08	ug/L					< 12.5	< 11.8		< 10.8							
Di-n-butylphthalate	2022-08	ug/L					< 10.4	< 10.4		< 10							
Di-n-butylphthalate	2023-01	ug/L															
Di-n-butylphthalate	2023-03	ug/L					< 10			< 10							
Di-n-butylphthalate	2023-08	ug/L					< 9.62	< 10.6		< 11.4							
Di-n-butylphthalate	2024-08	ug/L					< 10	< 11.4		< 10.9							
Di-n-octylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Di-n-octylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Di-n-octylphthalate	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Di-n-octylphthalate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**0.298 J**	< 10.0								
Di-n-octylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Di-n-octylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Di-n-octylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Di-n-octylphthalate	2011-09	ug/L																
Di-n-octylphthalate	2012-03	ug/L																< 10.0
Di-n-octylphthalate	2012-09	ug/L																< 10.0
Di-n-octylphthalate	2013-03	ug/L																< 20.4
Di-n-octylphthalate	2013-09	ug/L																< 20.4
Di-n-octylphthalate	2015-09	ug/L	< 22.7	< 22.2			**2.14 J**	< 23.3			< 21.7	< 22.2	< 21.7	< 22.5		< 22.7	< 21.1	
Di-n-octylphthalate	2015-10	ug/L							< 20.8	< 21.1					< 23.5			< 23.5
Di-n-octylphthalate	2016-03	ug/L			< 22.2 J	< 22.5 J												
Di-n-octylphthalate	2016-06	ug/L			< 22.7 J	< 22.7												
Di-n-octylphthalate	2020-08	ug/L	< 23.5	< 23.3	< 24.4	< 23.5	< 23.5	< 23.5	< 23	< 21.7	< 22.7	< 23.5	< 23.3	< 22.2	< 23.8	< 23.3	< 23.8	< 23.3
Di-n-octylphthalate	2023-01	ug/L															< 21.7	
Di-n-octylphthalate	2023-03	ug/L															< 20.8	
Dinoseb	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Dinoseb	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dinoseb	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Dinoseb	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Dinoseb	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Dinoseb	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Dinoseb	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Dinoseb	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Dinoseb	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Dinoseb	2016-03	ug/L			< 11.1	< 11.2												
Dinoseb	2016-06	ug/L			< 11.4	< 11.4												
Dinoseb	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Dinoseb	2023-01	ug/L															< 10.9	
Dinoseb	2023-03	ug/L															< 10.4	
Diphenylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Diphenylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diphenylamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Diphenylamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Diphenylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Diphenylamine	2010-09	ug/L	< 10.0 R	< 10.0 R	< 10.0 R			< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R		< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R	
Diphenylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Diphenylamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Diphenylamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Diphenylamine	2016-03	ug/L			< 11.1	< 11.2												
Diphenylamine	2016-06	ug/L			< 11.4	< 11.4												
Diphenylamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Diphenylamine	2023-01	ug/L															< 10.9	
Diphenylamine	2023-03	ug/L															< 10.4	
Disulfoton	2008-08	ug/L	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 77.8	< 70	< 70	< 70	< 70	< 70	< 77.8	< 70
Disulfoton	2009-03	ug/L	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Disulfoton	2009-07	ug/L	< 70	< 70.0	< 70.0	< 70		< 70		< 70			< 70.0		< 70	< 70	< 70	< 70
Disulfoton	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Disulfoton	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Disulfoton	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Disulfoton	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Disulfoton	2012-03	ug/L																
Disulfoton	2012-09	ug/L																
Disulfoton	2013-03	ug/L																
Disulfoton	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Disulfoton	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Disulfoton	2016-03	ug/L			< 11.1	< 11.2												
Disulfoton	2016-06	ug/L			< 11.4	< 11.4												
Disulfoton	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Disulfoton	2023-01	ug/L															< 10.9	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Di-n-octylphthalate	2011-03	ug/L	**0.478 J**	< 10.0	< 10.0	< 10.0	< 10.0	**0.413 J**									
Di-n-octylphthalate	2011-09	ug/L	< 10.0				< 10.0	< 10.0									
Di-n-octylphthalate	2012-03	ug/L	< 10.0				< 10.0	< 10.0									
Di-n-octylphthalate	2012-09	ug/L	< 10.0				< 10.0	< 10.0									
Di-n-octylphthalate	2013-03	ug/L	< 20.4				**1.42 J**	< 22.2									
Di-n-octylphthalate	2013-09	ug/L	< 20.8				< 21.3	< 20.2									
Di-n-octylphthalate	2015-09	ug/L		< 22		< 22.5	< 23.3	< 22.5	< 22.5								
Di-n-octylphthalate	2015-10	ug/L	< 23.5		< 20.6					< 22							
Di-n-octylphthalate	2016-03	ug/L					< 21.7 J			< 22.5							
Di-n-octylphthalate	2016-06	ug/L															
Di-n-octylphthalate	2020-08	ug/L	< 23.8	< 23.5	< 21.1	< 22	< 27	< 23.5	< 22.2	< 22.2							
Di-n-octylphthalate	2023-01	ug/L															
Di-n-octylphthalate	2023-03	ug/L					< 20			< 20							
Dinoseb	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Dinoseb	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Dinoseb	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Dinoseb	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dinoseb	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Dinoseb	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Dinoseb	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Dinoseb	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Dinoseb	2015-10	ug/L	< 11.8		< 10.3					< 11							
Dinoseb	2016-03	ug/L					< 10.9			< 11.2							
Dinoseb	2016-06	ug/L															
Dinoseb	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Dinoseb	2023-01	ug/L															
Dinoseb	2023-03	ug/L					< 10			< 10							
Diphenylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Diphenylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Diphenylamine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Diphenylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Diphenylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Diphenylamine	2010-09	ug/L	< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R										
Diphenylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Diphenylamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Diphenylamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
Diphenylamine	2016-03	ug/L					< 10.9			< 11.2							
Diphenylamine	2016-06	ug/L															
Diphenylamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Diphenylamine	2023-01	ug/L															
Diphenylamine	2023-03	ug/L					< 10			< 10							
Disulfoton	2008-08	ug/L	< 70	< 70	< 70	< 70	< 70	< 77.8	< 70								
Disulfoton	2009-03	ug/L	< 70	< 70	< 70	< 70	< 70	< 70	< 70								
Disulfoton	2009-07	ug/L	< 70.0	< 70	< 70	< 70	< 70.0	< 79.5	< 70.0								
Disulfoton	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Disulfoton	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Disulfoton	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Disulfoton	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Disulfoton	2012-03	ug/L					< 10.0										
Disulfoton	2012-09	ug/L					< 10.0										
Disulfoton	2013-03	ug/L					< 11.8										
Disulfoton	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Disulfoton	2015-10	ug/L	< 11.8		< 10.3					< 11							
Disulfoton	2016-03	ug/L					< 10.9			< 11.2							
Disulfoton	2016-06	ug/L															
Disulfoton	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Disulfoton	2023-01	ug/L															

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Disulfoton	2023-03	ug/L															< 10.4	
Endosulfan I	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
Endosulfan I	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
Endosulfan I	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endosulfan I	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Endosulfan I	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Endosulfan I	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Endosulfan I	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Endosulfan I	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Endosulfan I	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	**0.00303 J**			**0.00359 J**	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Endosulfan I	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Endosulfan I	2016-03	ug/L			< 0.032	< 0.0356												
Endosulfan I	2016-06	ug/L			< 0.0364	< 0.0364												
Endosulfan I	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.0416	**0.00315 J**	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
Endosulfan I	2023-01	ug/L															< 0.0727	
Endosulfan I	2023-03	ug/L															< 0.0667	
Endosulfan II	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
Endosulfan II	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
Endosulfan II	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endosulfan II	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Endosulfan II	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Endosulfan II	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Endosulfan II	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Endosulfan II	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Endosulfan II	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Endosulfan II	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Endosulfan II	2016-03	ug/L			< 0.032	< 0.0356												
Endosulfan II	2016-06	ug/L			< 0.0364	< 0.0364												
Endosulfan II	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.0416	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
Endosulfan II	2023-01	ug/L															< 0.0727	
Endosulfan II	2023-03	ug/L															< 0.0667	
Endosulfan Sulfate	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
Endosulfan Sulfate	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
Endosulfan Sulfate	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endosulfan Sulfate	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Endosulfan Sulfate	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Endosulfan Sulfate	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Endosulfan Sulfate	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Endosulfan Sulfate	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Endosulfan Sulfate	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	**0.00306 J**		< 0.0356	< 0.0376	
Endosulfan Sulfate	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Endosulfan Sulfate	2016-03	ug/L			< 0.032	< 0.0356												
Endosulfan Sulfate	2016-06	ug/L			< 0.0364	< 0.0364												
Endosulfan Sulfate	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.0416	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
Endosulfan Sulfate	2023-01	ug/L															< 0.0727	
Endosulfan Sulfate	2023-03	ug/L															< 0.0667	
Endrin	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
Endrin	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
Endrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endrin	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Endrin	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Endrin	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Endrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Endrin	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Endrin	2015-09	ug/L	< 0.036	< 0.0356			**0.00343 J**	< 0.0386			**0.00844 J**	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Endrin	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Endrin	2016-03	ug/L			< 0.032	< 0.0356 J												

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Disulfoton	2023-03	ug/L					< 10			< 10							
Endosulfan I	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Endosulfan I	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Endosulfan I	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Endosulfan I	2009-07	ug/L					< 0.0320		< 0.0320								
Endosulfan I	2009-09	ug/L					< 0.0320		< 0.0320								
Endosulfan I	2010-03	ug/L					< 0.0320		< 0.0320								
Endosulfan I	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Endosulfan I	2011-03	ug/L					< 0.0320										
Endosulfan I	2015-09	ug/L		**0.0029 J**		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
Endosulfan I	2015-10	ug/L	< 0.0372		**0.0127 J**					< 0.0372							
Endosulfan I	2016-03	ug/L					< 0.0333			< 0.0356							
Endosulfan I	2016-06	ug/L															
Endosulfan I	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	**0.00517 J**							
Endosulfan I	2023-01	ug/L															
Endosulfan I	2023-03	ug/L					< 0.0696			< 0.064							
Endosulfan II	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Endosulfan II	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Endosulfan II	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Endosulfan II	2009-07	ug/L					< 0.0320		< 0.0320								
Endosulfan II	2009-09	ug/L					< 0.0320		< 0.0320								
Endosulfan II	2010-03	ug/L					< 0.0320		< 0.0320								
Endosulfan II	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Endosulfan II	2011-03	ug/L					< 0.0320										
Endosulfan II	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
Endosulfan II	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
Endosulfan II	2016-03	ug/L					< 0.0333			< 0.0356							
Endosulfan II	2016-06	ug/L															
Endosulfan II	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Endosulfan II	2023-01	ug/L															
Endosulfan II	2023-03	ug/L					< 0.0696			< 0.064							
Endosulfan Sulfate	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Endosulfan Sulfate	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Endosulfan Sulfate	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Endosulfan Sulfate	2009-07	ug/L					< 0.0320		< 0.0320								
Endosulfan Sulfate	2009-09	ug/L					< 0.0320		< 0.0320								
Endosulfan Sulfate	2010-03	ug/L					< 0.0320		< 0.0320								
Endosulfan Sulfate	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Endosulfan Sulfate	2011-03	ug/L					< 0.0320										
Endosulfan Sulfate	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
Endosulfan Sulfate	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
Endosulfan Sulfate	2016-03	ug/L					< 0.0333			< 0.0356							
Endosulfan Sulfate	2016-06	ug/L															
Endosulfan Sulfate	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Endosulfan Sulfate	2023-01	ug/L															
Endosulfan Sulfate	2023-03	ug/L					< 0.0696			< 0.064							
Endrin	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Endrin	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Endrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Endrin	2009-07	ug/L					< 0.0320		< 0.0320								
Endrin	2009-09	ug/L					< 0.0320		< 0.0320								
Endrin	2010-03	ug/L					< 0.0320		< 0.0320								
Endrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Endrin	2011-03	ug/L					< 0.0320										
Endrin	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
Endrin	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
Endrin	2016-03	ug/L					< 0.0333			< 0.0356							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Endrin	2016-06	ug/L			< 0.0364	**0.00243 J**												
Endrin	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	**0.00239 J**	< 0.0376	**0.00736 J**	**0.00556 J**	**0.00455 J**	**0.00448 J**	< 0.0386	**0.00665 J**	< 0.0395	< 0.039	< 0.0381	< 0.04
Endrin	2023-01	ug/L															< 0.0727	
Endrin	2023-03	ug/L															< 0.0667	
Endrin Aldehyde	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
Endrin Aldehyde	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
Endrin Aldehyde	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endrin Aldehyde	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Endrin Aldehyde	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Endrin Aldehyde	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Endrin Aldehyde	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Endrin Aldehyde	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Endrin Aldehyde	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Endrin Aldehyde	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Endrin Aldehyde	2016-03	ug/L			**0.00921 J**	< 0.0356												
Endrin Aldehyde	2016-06	ug/L			< 0.0364	< 0.0364												
Endrin Aldehyde	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.0416	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
Endrin Aldehyde	2023-01	ug/L															< 0.0727	
Endrin Aldehyde	2023-03	ug/L															< 0.0667	
Ethyl Methacrylate	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethyl Methacrylate	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethyl Methacrylate	2009-07	ug/L	< 2	< 2.00		< 2		< 2	< 2	< 2	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2	
Ethyl Methacrylate	2009-09	ug/L	< 2	< 2.00		< 2.00		< 2.00	< 2.00	< 10.0	< 2.00	< 2	< 2	< 2	< 2	< 2	< 2	
Ethyl Methacrylate	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Ethyl Methacrylate	2010-09	ug/L	< 20.0	< 20.0	< 20.0			< 20.0	< 20.0	< 20.0	< 20.0	< 20.0		< 20.0	< 20.0	< 20.0	< 20.0	
Ethyl Methacrylate	2011-03	ug/L	< 2.00	< 2.00	< 2.00			< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
Ethyl Methacrylate	2012-09	ug/L														< 2.00		
Ethyl Methacrylate	2015-09	ug/L	< 2	< 2			< 2	< 2			< 2	< 2	< 2	< 2		< 2	< 2	
Ethyl Methacrylate	2015-10	ug/L							< 2	< 2					< 2			< 2
Ethyl Methacrylate	2016-03	ug/L			< 2	< 2												
Ethyl Methacrylate	2016-06	ug/L			< 2	< 2												
Ethyl Methacrylate	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethyl Methacrylate	2023-01	ug/L															< 2	
Ethyl Methacrylate	2023-03	ug/L															< 2	
Ethyl Methanesulfonate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Ethyl Methanesulfonate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ethyl Methanesulfonate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Ethyl Methanesulfonate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Ethyl Methanesulfonate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Ethyl Methanesulfonate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Ethyl Methanesulfonate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Ethyl Methanesulfonate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Ethyl Methanesulfonate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Ethyl Methanesulfonate	2016-03	ug/L			< 11.1	< 11.2												
Ethyl Methanesulfonate	2016-06	ug/L			< 11.4	< 11.4												
Ethyl Methanesulfonate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Ethyl Methanesulfonate	2023-01	ug/L															< 10.9	
Ethyl Methanesulfonate	2023-03	ug/L															< 10.4	
Ethylbenzene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.6**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**4.33**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	**2.85**	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Ethylbenzene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Ethylbenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.89**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	**1.53**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**2.15**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Endrin	2016-06	ug/L															
Endrin	2020-08	ug/L	< 0.039	**0.00388 J**	**0.0132 J**	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Endrin	2023-01	ug/L															
Endrin	2023-03	ug/L					< 0.0696			< 0.064							
Endrin Aldehyde	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Endrin Aldehyde	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Endrin Aldehyde	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Endrin Aldehyde	2009-07	ug/L					< 0.0320		< 0.0320								
Endrin Aldehyde	2009-09	ug/L					< 0.0320		< 0.0320								
Endrin Aldehyde	2010-03	ug/L					< 0.0320		< 0.0320								
Endrin Aldehyde	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Endrin Aldehyde	2011-03	ug/L					< 0.0320										
Endrin Aldehyde	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
Endrin Aldehyde	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
Endrin Aldehyde	2016-03	ug/L					< 0.0333			< 0.0356 J							
Endrin Aldehyde	2016-06	ug/L															
Endrin Aldehyde	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Endrin Aldehyde	2023-01	ug/L															
Endrin Aldehyde	2023-03	ug/L					< 0.0696			< 0.064							
Ethyl Methacrylate	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Ethyl Methacrylate	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Ethyl Methacrylate	2009-07	ug/L	< 2.00	< 2	< 2	< 2	< 2.00										
Ethyl Methacrylate	2009-09	ug/L	< 2.00	< 10.0	< 2.00	< 2.00	< 2.00										
Ethyl Methacrylate	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Ethyl Methacrylate	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0										
Ethyl Methacrylate	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00									
Ethyl Methacrylate	2012-09	ug/L				< 2.00											
Ethyl Methacrylate	2015-09	ug/L		< 2		< 2	< 2	< 2	< 2								
Ethyl Methacrylate	2015-10	ug/L	< 2		< 2					< 2							
Ethyl Methacrylate	2016-03	ug/L					< 2			< 2							
Ethyl Methacrylate	2016-06	ug/L															
Ethyl Methacrylate	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2							
Ethyl Methacrylate	2023-01	ug/L															
Ethyl Methacrylate	2023-03	ug/L					< 2			< 2							
Ethyl Methanesulfonate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Ethyl Methanesulfonate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Ethyl Methanesulfonate	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Ethyl Methanesulfonate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Ethyl Methanesulfonate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Ethyl Methanesulfonate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Ethyl Methanesulfonate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Ethyl Methanesulfonate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Ethyl Methanesulfonate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Ethyl Methanesulfonate	2016-03	ug/L					< 10.9			< 11.2							
Ethyl Methanesulfonate	2016-06	ug/L															
Ethyl Methanesulfonate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Ethyl Methanesulfonate	2023-01	ug/L															
Ethyl Methanesulfonate	2023-03	ug/L					< 10			< 10							
Ethylbenzene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Ethylbenzene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Ethylbenzene	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Ethylbenzene	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Ethylbenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Ethylbenzene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.61**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	**0.792 J**	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
Ethylbenzene	2013-05	ug/L			< 1.00			< 1.00										
Ethylbenzene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.07**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2013-11	ug/L																
Ethylbenzene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**0.480 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2014-06	ug/L																
Ethylbenzene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.399 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**0.336 J**	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
Ethylbenzene	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Ethylbenzene	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
Ethylbenzene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2016-06	ug/L			< 1	< 1												
Ethylbenzene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.42 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2017-03	ug/L	< 1	< 1	**0.24 J**	< 1	< 1	< 1	< 1	< 1	**0.526 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2017-08	ug/L	< 1	**0.214 J**	**0.266 J**	< 1	< 1	< 1	< 1	< 1	**0.306 J**	< 1	< 1	< 1	< 1	< 1	**0.408 J**	< 1
Ethylbenzene	2017-11	ug/L																
Ethylbenzene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2018-06	ug/L																
Ethylbenzene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Ethylbenzene	2018-09	ug/L					< 1						< 1	< 1				
Ethylbenzene	2018-11	ug/L																
Ethylbenzene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.68**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2020-04	ug/L				< 1	< 1		< 1									
Ethylbenzene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2021-03	ug/L							< 1	< 1	< 1	< 1						
Ethylbenzene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2022-03	ug/L							< 1	< 1	< 1	< 1						
Ethylbenzene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2023-01	ug/L															< 1	
Ethylbenzene	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
Ethylbenzene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2024-03	ug/L							< 1	< 1	< 1	< 1						
Ethylbenzene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Famphur	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20
Famphur	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Famphur	2009-07	ug/L	< 20	< 20.0	< 20.0	< 20		< 20		< 20			< 20.0		< 20	< 20	< 20	< 20
Famphur	2009-09	ug/L	< 20	< 20.0	< 20.0	< 20.0		< 20.0		< 20.0			< 20		< 20	< 22.5	< 20	< 20
Famphur	2010-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0		< 20.0			< 20.0		< 20.0	< 20.0	< 20.0	< 22.5
Famphur	2010-09	ug/L	< 20.0	< 20.0	< 20.0			< 20.0	< 20.0	< 20.0	< 20.0	< 20.0		< 20.0	< 20.0	< 20.0	< 20.0	
Famphur	2011-03	ug/L	< 20.0	< 20.0	< 20.0			< 20.0		< 20.0	< 20.0	< 20.0	< 20.0		< 20.0	< 20.0	< 20.0	
Famphur	2015-09	ug/L	< 22.7	< 22.2			< 22.2	< 23.3			< 21.7	< 22.2	< 21.7	< 22.5		< 22.7	< 21.1	
Famphur	2015-10	ug/L							< 20.8	< 21.1					< 23.5			< 23.5
Famphur	2016-03	ug/L			< 22.2	< 22.5												
Famphur	2016-06	ug/L			< 22.7	< 22.7												
Famphur	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Famphur	2023-01	ug/L															< 10.9	
Famphur	2023-03	ug/L															< 10.4	
Fluoranthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Fluoranthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Fluoranthene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Table 14
Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Ethylbenzene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
Ethylbenzene	2013-05	ug/L															
Ethylbenzene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	**0.221 J**	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Ethylbenzene	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
Ethylbenzene	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
Ethylbenzene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Ethylbenzene	2016-06	ug/L															
Ethylbenzene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Ethylbenzene	2017-03	ug/L	< 1	< 1	< 1	< 1	**0.348 J**	< 1	**0.261 J**	< 1	< 1	< 1	< 1	< 1	< 1		
Ethylbenzene	2017-08	ug/L	< 1	< 1	< 1	< 1	**0.466 J**	**0.216 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Ethylbenzene	2017-11	ug/L														< 1	< 1
Ethylbenzene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2018-06	ug/L														< 1	< 1
Ethylbenzene	2018-08	ug/L	< 1	< 1	< 1	< 1	**1.41**	< 1	< 1	< 1		< 1	< 1	< 1			
Ethylbenzene	2018-09	ug/L													< 1	< 1	< 1
Ethylbenzene	2018-11	ug/L					< 1									< 1	< 1
Ethylbenzene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Ethylbenzene	2020-04	ug/L			< 1									< 1			
Ethylbenzene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Ethylbenzene	2021-03	ug/L		< 1			< 1			< 1							
Ethylbenzene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Ethylbenzene	2022-03	ug/L		< 1			< 1			< 1							
Ethylbenzene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Ethylbenzene	2023-01	ug/L															
Ethylbenzene	2023-03	ug/L		< 1			< 1			< 1							
Ethylbenzene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Ethylbenzene	2024-03	ug/L		< 1			< 1			< 1							
Ethylbenzene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Famphur	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20								
Famphur	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20								
Famphur	2009-07	ug/L	< 20.0	< 20	< 20	< 20	< 20.0	< 22.7	< 20.0								
Famphur	2009-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0								
Famphur	2010-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0								
Famphur	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0										
Famphur	2011-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0									
Famphur	2015-09	ug/L		< 22		< 22.5	< 23.3	< 22.5	< 22.5								
Famphur	2015-10	ug/L	< 23.5		< 20.6					< 22							
Famphur	2016-03	ug/L					< 21.7			< 22.5							
Famphur	2016-06	ug/L															
Famphur	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Famphur	2023-01	ug/L															
Famphur	2023-03	ug/L					< 10			< 10							
Fluoranthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Fluoranthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Fluoranthene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Fluoranthene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Fluoranthene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Fluoranthene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Fluoranthene	2016-03	ug/L			< 11.1	< 11.2												
Fluoranthene	2016-06	ug/L			< 11.4	< 11.4												
Fluoranthene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Fluoranthene	2023-01	ug/L															< 10.9	
Fluoranthene	2023-03	ug/L															< 10.4	
Fluorene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Fluorene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Fluorene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	**0.751 J**	**0.259 J**
Fluorene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Fluorene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Fluorene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Fluorene	2011-09	ug/L															< 10.0	
Fluorene	2012-03	ug/L															< 10.0	< 10.0
Fluorene	2012-09	ug/L															< 11.1	< 10.0
Fluorene	2013-03	ug/L															< 10.6	< 10.2
Fluorene	2013-09	ug/L															< 12.8	< 10.2
Fluorene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Fluorene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Fluorene	2016-03	ug/L			< 11.1	< 11.2												
Fluorene	2016-06	ug/L			< 11.4	< 11.4												
Fluorene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Fluorene	2023-01	ug/L															< 10.9	
Fluorene	2023-03	ug/L															< 10.4	
Fluorotrichloromethane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2009-07	ug/L	< 4	< 4.00		< 4		< 4	< 4	< 4	< 4	< 4	< 4.00	< 4.00	< 4	< 4	< 4	
Fluorotrichloromethane	2009-09	ug/L	< 4	< 4.00		< 4.00		< 4.00	< 4.00	< 20.0	< 4.00	< 4	< 4	< 4	< 4	< 4	< 4	
Fluorotrichloromethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 40.0	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2012-09	ug/L	< 4.00	< 5.00	< 5.00	< 4.00	< 4.00	< 5.00	< 5.00	< 5.00	< 5.00	< 4.00	< 5.00	< 5.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2013-03	ug/L	< 4.00	< 4		< 4.00	< 4.00		< 4	< 4	**0.27 J**	< 4	< 4	< 4	< 4.00	< 4.00	< 4	< 4
Fluorotrichloromethane	2013-05	ug/L			< 4.00			< 4.00										
Fluorotrichloromethane	2013-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	**0.185 J**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2013-11	ug/L																
Fluorotrichloromethane	2014-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2014-06	ug/L																
Fluorotrichloromethane	2014-09	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2015-03	ug/L	< 4	< 4	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4	< 4	< 4.00	< 4.00	< 4	< 4	< 4	< 4.00
Fluorotrichloromethane	2015-09	ug/L	< 4	< 4		< 4	< 4	< 4			< 4	< 4	< 4	< 4		< 4	< 4	
Fluorotrichloromethane	2015-10	ug/L			< 4				< 4	< 4					< 4			< 4
Fluorotrichloromethane	2016-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2016-06	ug/L			< 4	< 4												
Fluorotrichloromethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2017-11	ug/L																
Fluorotrichloromethane	2018-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2018-06	ug/L																
Fluorotrichloromethane	2018-08	ug/L	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Fluorotrichloromethane	2018-09	ug/L					< 4						< 4	< 4				
Fluorotrichloromethane	2018-11	ug/L																

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Fluoranthene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Fluoranthene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Fluoranthene	2016-03	ug/L					< 10.9			< 11.2							
Fluoranthene	2016-06	ug/L															
Fluoranthene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Fluoranthene	2023-01	ug/L															
Fluoranthene	2023-03	ug/L					< 10			< 10							
Fluorene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Fluorene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Fluorene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Fluorene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Fluorene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Fluorene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Fluorene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Fluorene	2011-09	ug/L					< 10.0										
Fluorene	2012-03	ug/L					< 10.0										
Fluorene	2012-09	ug/L					< 10.0										
Fluorene	2013-03	ug/L					< 11.8										
Fluorene	2013-09	ug/L															
Fluorene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Fluorene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Fluorene	2016-03	ug/L					< 10.9			< 11.2							
Fluorene	2016-06	ug/L															
Fluorene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Fluorene	2023-01	ug/L															
Fluorene	2023-03	ug/L					< 10			< 10							
Fluorotrichloromethane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4								
Fluorotrichloromethane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4								
Fluorotrichloromethane	2009-07	ug/L	< 4.00	< 4	< 4	< 4	< 4.00										
Fluorotrichloromethane	2009-09	ug/L	< 4.00	< 20.0	< 4.00	< 4.00	< 4.00										
Fluorotrichloromethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2012-09	ug/L	< 4.00	< 4.00	< 5.00	< 4.00	< 4.00	< 5.00	< 5.00								
Fluorotrichloromethane	2013-03	ug/L	< 4	< 4	< 100		< 4.00	< 4	< 4								
Fluorotrichloromethane	2013-05	ug/L															
Fluorotrichloromethane	2013-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2013-11	ug/L									< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2014-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2014-06	ug/L									< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2014-09	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4		
Fluorotrichloromethane	2015-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4	< 4	< 4		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2015-09	ug/L		< 4		< 4	< 4	< 4	< 4								
Fluorotrichloromethane	2015-10	ug/L	< 4		< 4					< 4	< 4	< 4	< 4	< 4	< 4		
Fluorotrichloromethane	2016-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Fluorotrichloromethane	2016-06	ug/L															
Fluorotrichloromethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Fluorotrichloromethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Fluorotrichloromethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		
Fluorotrichloromethane	2017-11	ug/L														< 4	< 4
Fluorotrichloromethane	2018-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 40	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2018-06	ug/L														< 4	< 4
Fluorotrichloromethane	2018-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4			
Fluorotrichloromethane	2018-09	ug/L													< 4	< 4	< 4
Fluorotrichloromethane	2018-11	ug/L														< 4	< 4

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Fluorotrichloromethane	2019-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2020-03	ug/L	< 4	< 4	< 4			< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2020-04	ug/L				< 4	< 4		< 4									
Fluorotrichloromethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2021-03	ug/L							< 4	< 4	< 4	< 4						
Fluorotrichloromethane	2021-08	ug/L	< 4	< 4	< 4	< 4	< 40	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2022-03	ug/L							< 4	< 4	< 4	< 4						
Fluorotrichloromethane	2022-08	ug/L	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2023-01	ug/L															< 4	
Fluorotrichloromethane	2023-03	ug/L							< 4	< 4	< 4	< 4					< 4	
Fluorotrichloromethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2024-03	ug/L							< 4	< 4	< 4	< 4						
Fluorotrichloromethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Heptachlor	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
Heptachlor	2008-09	ug/L		< 0.016	< 0.016												**0.537**	
Heptachlor	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Heptachlor	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Heptachlor	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Heptachlor	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Heptachlor	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Heptachlor	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Heptachlor	2011-09	ug/L															< 0.0320	
Heptachlor	2012-03	ug/L															< 0.0320	
Heptachlor	2012-09	ug/L															< 0.0320	
Heptachlor	2013-03	ug/L															< 0.0386	
Heptachlor	2013-09	ug/L															< 0.0323	
Heptachlor	2014-03	ug/L															< 0.0330	
Heptachlor	2014-09	ug/L															< 0.0381	
Heptachlor	2015-03	ug/L															**0.0132 J**	
Heptachlor	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Heptachlor	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Heptachlor	2016-03	ug/L			< 0.032	< 0.0356											< 0.0333	
Heptachlor	2016-06	ug/L			< 0.0364	**0.00385 J**												
Heptachlor	2016-08	ug/L															**0.00392 J**	
Heptachlor	2017-03	ug/L															< 0.0381	
Heptachlor	2017-08	ug/L															< 0.178	
Heptachlor	2018-03	ug/L															< 0.0372	
Heptachlor	2018-08	ug/L															< 0.0352	
Heptachlor	2019-03	ug/L															**0.0438**	
Heptachlor	2019-08	ug/L															< 0.0327	
Heptachlor	2020-03	ug/L															< 0.0356	
Heptachlor	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	**0.00483 J**	**0.00347 J**	< 0.0376	< 0.0376	**0.00931 J**	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
Heptachlor	2021-08	ug/L															< 0.0356	
Heptachlor	2022-08	ug/L																
Heptachlor	2023-01	ug/L															< 0.0727	
Heptachlor	2023-03	ug/L															< 0.0667	
Heptachlor	2023-08	ug/L															< 0.0604	
Heptachlor	2024-08	ug/L															< 0.064	
Heptachlor Epoxide	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
Heptachlor Epoxide	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
Heptachlor Epoxide	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Heptachlor Epoxide	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Heptachlor Epoxide	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Heptachlor Epoxide	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Heptachlor Epoxide	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Heptachlor Epoxide	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Fluorotrichloromethane	2019-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2020-03	ug/L	< 4	< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4
Fluorotrichloromethane	2020-04	ug/L			< 4									< 4			
Fluorotrichloromethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Fluorotrichloromethane	2021-03	ug/L		< 4			< 4			< 4							
Fluorotrichloromethane	2021-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Fluorotrichloromethane	2022-03	ug/L		< 4			< 4			< 4							
Fluorotrichloromethane	2022-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Fluorotrichloromethane	2023-01	ug/L															
Fluorotrichloromethane	2023-03	ug/L		< 4			< 4			< 4							
Fluorotrichloromethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Fluorotrichloromethane	2024-03	ug/L		< 4			< 4			< 4							
Fluorotrichloromethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4		< 4
Heptachlor	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Heptachlor	2008-09	ug/L	< 0.016				< 0.016	< 0.016	**0.063**								
Heptachlor	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Heptachlor	2009-07	ug/L					< 0.0320		< 0.0320								
Heptachlor	2009-09	ug/L					< 0.0320		< 0.0320								
Heptachlor	2010-03	ug/L					< 0.0320		< 0.0320								
Heptachlor	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Heptachlor	2011-03	ug/L					< 0.0320										
Heptachlor	2011-09	ug/L					< 0.0320										
Heptachlor	2012-03	ug/L					< 0.0320		< 0.0320								
Heptachlor	2012-09	ug/L							< 0.0360								
Heptachlor	2013-03	ug/L					< 0.0333		< 0.0323 J								
Heptachlor	2013-09	ug/L							< 0.0360								
Heptachlor	2014-03	ug/L					< 0.0348		< 0.0330								
Heptachlor	2014-09	ug/L					< 0.032		< 0.0337								
Heptachlor	2015-03	ug/L					< 0.036		< 0.0372								
Heptachlor	2015-09	ug/L		< 0.0352		< 0.0356	**0.0173 J**	< 0.0356	< 0.0352								
Heptachlor	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
Heptachlor	2016-03	ug/L					**0.00799 J**		< 0.0372	< 0.0356							
Heptachlor	2016-06	ug/L															
Heptachlor	2016-08	ug/L					< 0.0356		< 0.0356	< 0.0356							
Heptachlor	2017-03	ug/L					< 0.0337		< 0.032	< 0.0372							
Heptachlor	2017-08	ug/L					< 0.0356		< 0.0356	< 0.0356							
Heptachlor	2018-03	ug/L					< 0.0444		< 0.036	< 0.0372							
Heptachlor	2018-08	ug/L					< 0.0451		< 0.0376	< 0.0381							
Heptachlor	2019-03	ug/L					< 0.039		< 0.0356	< 0.0395							
Heptachlor	2019-08	ug/L					< 0.0346		< 0.0342	< 0.034							
Heptachlor	2020-03	ug/L					< 0.0427		< 0.0356	< 0.0376							
Heptachlor	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Heptachlor	2021-08	ug/L					< 0.04		< 0.0356	< 0.0368							
Heptachlor	2022-08	ug/L					< 0.0667		< 0.064	< 0.0604							
Heptachlor	2023-01	ug/L															
Heptachlor	2023-03	ug/L					< 0.0696			< 0.064							
Heptachlor	2023-08	ug/L					< 0.0604		< 0.0711	< 0.0711							
Heptachlor	2024-08	ug/L					< 0.064		< 0.0667	< 0.0696							
Heptachlor Epoxide	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Heptachlor Epoxide	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Heptachlor Epoxide	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Heptachlor Epoxide	2009-07	ug/L					< 0.0320		< 0.0320								
Heptachlor Epoxide	2009-09	ug/L					< 0.0320		< 0.0320								
Heptachlor Epoxide	2010-03	ug/L					< 0.0320		< 0.0320								
Heptachlor Epoxide	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Heptachlor Epoxide	2011-03	ug/L					< 0.0320										

Table 14
Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Upper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Heptachlor Epoxide	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Heptachlor Epoxide	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Heptachlor Epoxide	2016-03	ug/L			< 0.032	< 0.0356												
Heptachlor Epoxide	2016-06	ug/L			< 0.0364	< 0.0364												
Heptachlor Epoxide	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.0416	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
Heptachlor Epoxide	2023-01	ug/L															< 0.0727	
Heptachlor Epoxide	2023-03	ug/L															< 0.0667	
Hexachlorobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Hexachlorobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorobenzene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Hexachlorobenzene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Hexachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Hexachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Hexachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Hexachlorobenzene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Hexachlorobenzene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Hexachlorobenzene	2016-03	ug/L			< 11.1	< 11.2												
Hexachlorobenzene	2016-06	ug/L			< 11.4	< 11.4												
Hexachlorobenzene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Hexachlorobenzene	2023-01	ug/L															< 10.9	
Hexachlorobenzene	2023-03	ug/L															< 10.4	
Hexachlorobutadiene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Hexachlorobutadiene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Hexachlorobutadiene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Hexachlorobutadiene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Hexachlorobutadiene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Hexachlorobutadiene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Hexachlorobutadiene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Hexachlorobutadiene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Hexachlorobutadiene	2016-03	ug/L			< 11.1	< 11.2												
Hexachlorobutadiene	2016-06	ug/L			< 11.4	< 11.4												
Hexachlorobutadiene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Hexachlorobutadiene	2023-01	ug/L															< 10.9	
Hexachlorobutadiene	2023-03	ug/L															< 10.4	
Hexachlorocyclopentadiene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Hexachlorocyclopentadiene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorocyclopentadiene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Hexachlorocyclopentadiene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Hexachlorocyclopentadiene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Hexachlorocyclopentadiene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Hexachlorocyclopentadiene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Hexachlorocyclopentadiene	2015-09	ug/L	< 22.7	< 22.2			< 22.2	< 23.3			< 21.7	< 22.2	< 21.7	< 22.5		< 22.7	< 21.1	
Hexachlorocyclopentadiene	2015-10	ug/L							< 20.8	< 21.1					< 23.5			< 23.5
Hexachlorocyclopentadiene	2016-03	ug/L			< 22.2	< 22.5												
Hexachlorocyclopentadiene	2016-06	ug/L			< 22.7	< 22.7												
Hexachlorocyclopentadiene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Hexachlorocyclopentadiene	2023-01	ug/L															< 10.9	
Hexachlorocyclopentadiene	2023-03	ug/L															< 10.4	
Hexachloroethane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Hexachloroethane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloroethane	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Hexachloroethane	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Hexachloroethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Hexachloroethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Hexachloroethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	**0.236 J**	< 10.0	
Hexachloroethane	2011-09	ug/L														< 10.0		

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Table 14
Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Heptachlor Epoxide	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
Heptachlor Epoxide	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
Heptachlor Epoxide	2016-03	ug/L					< 0.0333			< 0.0356							
Heptachlor Epoxide	2016-06	ug/L															
Heptachlor Epoxide	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Heptachlor Epoxide	2023-01	ug/L															
Heptachlor Epoxide	2023-03	ug/L					< 0.0696			< 0.064							
Hexachlorobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Hexachlorobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Hexachlorobenzene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Hexachlorobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Hexachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Hexachlorobenzene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Hexachlorobenzene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Hexachlorobenzene	2016-03	ug/L					< 10.9			< 11.2							
Hexachlorobenzene	2016-06	ug/L															
Hexachlorobenzene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Hexachlorobenzene	2023-01	ug/L															
Hexachlorobenzene	2023-03	ug/L					< 10			< 10							
Hexachlorobutadiene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Hexachlorobutadiene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Hexachlorobutadiene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Hexachlorobutadiene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachlorobutadiene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachlorobutadiene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Hexachlorobutadiene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Hexachlorobutadiene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Hexachlorobutadiene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Hexachlorobutadiene	2016-03	ug/L					< 10.9			< 11.2							
Hexachlorobutadiene	2016-06	ug/L															
Hexachlorobutadiene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Hexachlorobutadiene	2023-01	ug/L															
Hexachlorobutadiene	2023-03	ug/L					< 10			< 10							
Hexachlorocyclopentadiene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Hexachlorocyclopentadiene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Hexachlorocyclopentadiene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Hexachlorocyclopentadiene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachlorocyclopentadiene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachlorocyclopentadiene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Hexachlorocyclopentadiene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Hexachlorocyclopentadiene	2015-09	ug/L		< 22		< 22.5	< 23.3	< 22.5	< 22.5								
Hexachlorocyclopentadiene	2015-10	ug/L	< 23.5		< 20.6					< 22							
Hexachlorocyclopentadiene	2016-03	ug/L					< 21.7			< 22.5							
Hexachlorocyclopentadiene	2016-06	ug/L															
Hexachlorocyclopentadiene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Hexachlorocyclopentadiene	2023-01	ug/L															
Hexachlorocyclopentadiene	2023-03	ug/L					< 10			< 10							
Hexachloroethane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Hexachloroethane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Hexachloroethane	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Hexachloroethane	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachloroethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachloroethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	**0.135 J**	< 10.0										
Hexachloroethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Hexachloroethane	2011-09	ug/L				< 10.0	< 10.0										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Hexachloroethane	2012-03	ug/L														< 10.0		
Hexachloroethane	2012-09	ug/L														< 10.0		
Hexachloroethane	2013-03	ug/L														< 11.0		
Hexachloroethane	2013-09	ug/L														< 11.2		
Hexachloroethane	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Hexachloroethane	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Hexachloroethane	2016-03	ug/L			< 11.1	< 11.2												
Hexachloroethane	2016-06	ug/L			< 11.4	< 11.4												
Hexachloroethane	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Hexachloroethane	2023-01	ug/L															< 10.9	
Hexachloroethane	2023-03	ug/L															< 10.4	
Hexachloropropene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Hexachloropropene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloropropene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Hexachloropropene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Hexachloropropene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Hexachloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Hexachloropropene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Hexachloropropene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Hexachloropropene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Hexachloropropene	2016-03	ug/L			< 11.1	< 11.2												
Hexachloropropene	2016-06	ug/L			< 11.4	< 11.4												
Hexachloropropene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Hexachloropropene	2023-01	ug/L															< 10.9	
Hexachloropropene	2023-03	ug/L															< 10.4	
Indeno(1,2,3-cd)pyrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Indeno(1,2,3-cd)pyrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Indeno(1,2,3-cd)pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Indeno(1,2,3-cd)pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	2011-09	ug/L																
Indeno(1,2,3-cd)pyrene	2012-03	ug/L																
Indeno(1,2,3-cd)pyrene	2012-09	ug/L																
Indeno(1,2,3-cd)pyrene	2013-03	ug/L																
Indeno(1,2,3-cd)pyrene	2013-09	ug/L																
Indeno(1,2,3-cd)pyrene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Indeno(1,2,3-cd)pyrene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Indeno(1,2,3-cd)pyrene	2016-03	ug/L			< 11.1	< 11.2												
Indeno(1,2,3-cd)pyrene	2016-06	ug/L			< 11.4	< 11.4												
Indeno(1,2,3-cd)pyrene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Indeno(1,2,3-cd)pyrene	2023-01	ug/L															< 10.9	
Indeno(1,2,3-cd)pyrene	2023-03	ug/L															< 10.4	
Iodomethane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2009-07	ug/L	< 20	< 20.0		< 10		< 20	< 10	< 10	< 10	< 20	< 20.0	< 20.0	< 20	< 10	< 20	
Iodomethane	2009-09	ug/L	< 10	< 10.0		< 20.0		< 20.0	< 10.0	< 50.0	< 20.0	< 10	< 10	< 10	< 10	< 10	< 10	
Iodomethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2011-09	ug/L	< 20.0	< 50.0	< 50.0	< 50.0	< 10.0	< 50.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 20.0	< 10.0	< 10.0
Iodomethane	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2013-03	ug/L	< 10.0	< 10		< 10.0	< 10.0		< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10
Iodomethane	2013-05	ug/L			< 10.0			< 10.0										
Iodomethane	2013-09	ug/L	**5.23 J**	< 10.0	< 10.0	< 10.0	< 10.0	**5.11 J**	**5.11 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Hexachloroethane	2012-03	ug/L				< 10.0	< 10.0										
Hexachloroethane	2012-09	ug/L				< 10.0	< 10.0										
Hexachloroethane	2013-03	ug/L					< 11.8										
Hexachloroethane	2013-09	ug/L				< 11.0											
Hexachloroethane	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Hexachloroethane	2015-10	ug/L	< 11.8		< 10.3					< 11							
Hexachloroethane	2016-03	ug/L					< 10.9			< 11.2							
Hexachloroethane	2016-06	ug/L															
Hexachloroethane	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Hexachloroethane	2023-01	ug/L															
Hexachloroethane	2023-03	ug/L					< 10			< 10							
Hexachloropropene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Hexachloropropene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Hexachloropropene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Hexachloropropene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachloropropene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Hexachloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Hexachloropropene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Hexachloropropene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Hexachloropropene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Hexachloropropene	2016-03	ug/L					< 10.9			< 11.2							
Hexachloropropene	2016-06	ug/L															
Hexachloropropene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Hexachloropropene	2023-01	ug/L															
Hexachloropropene	2023-03	ug/L					< 10			< 10							
Indeno(1,2,3-cd)pyrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Indeno(1,2,3-cd)pyrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Indeno(1,2,3-cd)pyrene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Indeno(1,2,3-cd)pyrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	**0.299 J**	< 10.0	< 10.0								
Indeno(1,2,3-cd)pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Indeno(1,2,3-cd)pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Indeno(1,2,3-cd)pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Indeno(1,2,3-cd)pyrene	2011-09	ug/L					< 10.0										
Indeno(1,2,3-cd)pyrene	2012-03	ug/L					< 10.0										
Indeno(1,2,3-cd)pyrene	2012-09	ug/L					< 10.0										
Indeno(1,2,3-cd)pyrene	2013-03	ug/L					< 11.8										
Indeno(1,2,3-cd)pyrene	2013-09	ug/L					< 10.6										
Indeno(1,2,3-cd)pyrene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Indeno(1,2,3-cd)pyrene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Indeno(1,2,3-cd)pyrene	2016-03	ug/L					< 10.9			< 11.2							
Indeno(1,2,3-cd)pyrene	2016-06	ug/L															
Indeno(1,2,3-cd)pyrene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Indeno(1,2,3-cd)pyrene	2023-01	ug/L															
Indeno(1,2,3-cd)pyrene	2023-03	ug/L					< 10			< 10							
Iodomethane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Iodomethane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Iodomethane	2009-07	ug/L	< 20.0	< 20	< 10	< 10	< 20.0										
Iodomethane	2009-09	ug/L	< 10.0	< 100	< 10.0	< 20.0	< 10.0										
Iodomethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Iodomethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Iodomethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Iodomethane	2011-09	ug/L	< 50.0	< 50.0	< 50.0	< 20.0	< 20.0	< 50.0	< 50.0								
Iodomethane	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Iodomethane	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Iodomethane	2013-03	ug/L	< 10	< 10	< 250		< 10.0	< 10	< 10								
Iodomethane	2013-05	ug/L															
Iodomethane	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		

Table 14
Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Iodomethane	2013-11	ug/L																
Iodomethane	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2014-06	ug/L																
Iodomethane	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2015-03	ug/L	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Iodomethane	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
Iodomethane	2015-10	ug/L			< 10				< 10	< 10					< 10			< 10
Iodomethane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2016-06	ug/L			< 10	< 10												
Iodomethane	2016-08	ug/L	< 10	< 10	< 10	**3.45 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2017-11	ug/L																
Iodomethane	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2018-06	ug/L																
Iodomethane	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Iodomethane	2018-09	ug/L					< 10						< 10	< 10				
Iodomethane	2018-11	ug/L																
Iodomethane	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2020-03	ug/L	< 10	< 10	< 10			< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2020-04	ug/L				< 10	< 10		< 10									
Iodomethane	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2021-03	ug/L							< 10	< 10	< 10	< 10						
Iodomethane	2021-08	ug/L	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2022-03	ug/L							< 10	< 10	< 10	< 10						
Iodomethane	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2023-01	ug/L															< 10	
Iodomethane	2023-03	ug/L							< 10	< 10	< 10	< 10					< 10	
Iodomethane	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2024-03	ug/L							< 10	< 10	< 10	< 10						
Iodomethane	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutanol	2008-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutanol	2009-03	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutanol	2010-09	mg/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Isobutanol	2015-09	mg/L	< 10	< 10			< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
Isobutanol	2015-10	mg/L							< 10	< 10					< 10			< 10
Isobutanol	2016-03	mg/L			< 10	< 10												
Isobutanol	2016-06	mg/L			< 10	< 10												
Isobutanol	2020-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutanol	2023-01	mg/L															< 10	
Isobutanol	2023-03	mg/L															< 10	
Isodrin	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Isodrin	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isodrin	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Isodrin	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Isodrin	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Isodrin	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Isodrin	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Isodrin	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Isodrin	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Isodrin	2016-03	ug/L			< 11.1	< 11.2												
Isodrin	2016-06	ug/L			< 11.4	< 11.4												
Isodrin	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Isodrin	2023-01	ug/L															< 10.9	
Isodrin	2023-03	ug/L															< 10.4	
Isophorone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Iodomethane	2013-11	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Iodomethane	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Iodomethane	2014-06	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Iodomethane	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 50	< 10	< 10	< 10	< 10		
Iodomethane	2015-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Iodomethane	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
Iodomethane	2015-10	ug/L	< 10		< 10					< 10	< 10	< 10	< 10	< 10	< 10		
Iodomethane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Iodomethane	2016-06	ug/L															
Iodomethane	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Iodomethane	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Iodomethane	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Iodomethane	2017-11	ug/L														< 10	**7.36 J**
Iodomethane	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2018-06	ug/L														< 10	< 10
Iodomethane	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10			
Iodomethane	2018-09	ug/L													< 10	< 10	< 10
Iodomethane	2018-11	ug/L														< 10	< 10
Iodomethane	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2020-03	ug/L	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
Iodomethane	2020-04	ug/L			< 10									< 10			
Iodomethane	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Iodomethane	2021-03	ug/L		< 10			< 10			< 10							
Iodomethane	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Iodomethane	2022-03	ug/L		< 10			< 10			< 10							
Iodomethane	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Iodomethane	2023-01	ug/L															
Iodomethane	2023-03	ug/L		< 10			< 10			< 10							
Iodomethane	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Iodomethane	2024-03	ug/L		< 10			< 10			< 10							
Iodomethane	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Isobutanol	2008-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Isobutanol	2009-03	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Isobutanol	2010-09	mg/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Isobutanol	2015-09	mg/L		< 10		< 10	< 10	< 10	< 10								
Isobutanol	2015-10	mg/L	< 10		< 10					< 10							
Isobutanol	2016-03	mg/L					< 10			< 10							
Isobutanol	2016-06	mg/L															
Isobutanol	2020-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Isobutanol	2023-01	mg/L															
Isobutanol	2023-03	mg/L					< 10			< 10							
Isodrin	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Isodrin	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Isodrin	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Isodrin	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Isodrin	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Isodrin	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Isodrin	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Isodrin	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Isodrin	2015-10	ug/L	< 11.8		< 10.3					< 11							
Isodrin	2016-03	ug/L					< 10.9			< 11.2							
Isodrin	2016-06	ug/L															
Isodrin	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Isodrin	2023-01	ug/L															
Isodrin	2023-03	ug/L					< 10			< 10							
Isophorone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Isophorone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isophorone	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Isophorone	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Isophorone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Isophorone	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Isophorone	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Isophorone	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Isophorone	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Isophorone	2016-03	ug/L			< 11.1	< 11.2												
Isophorone	2016-06	ug/L			< 11.4	< 11.4												
Isophorone	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Isophorone	2023-01	ug/L															< 10.9	
Isophorone	2023-03	ug/L															< 10.4	
Isosafrole	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Isosafrole	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isosafrole	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Isosafrole	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Isosafrole	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Isosafrole	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Isosafrole	2011-03	ug/L	**0.182 J**	**0.183 J**	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Isosafrole	2011-09	ug/L	< 10.0	< 10.0														
Isosafrole	2012-03	ug/L	< 10.0	< 10.0														
Isosafrole	2012-09	ug/L	< 10.0	< 10.0														
Isosafrole	2013-03	ug/L	< 10.9	< 10.2														
Isosafrole	2013-09	ug/L	< 11.0	< 10.2														
Isosafrole	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Isosafrole	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Isosafrole	2016-03	ug/L			< 11.1	< 11.2												
Isosafrole	2016-06	ug/L			< 11.4	< 11.4												
Isosafrole	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Isosafrole	2023-01	ug/L															< 10.9	
Isosafrole	2023-03	ug/L															< 10.4	
Kepone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Kepone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Kepone	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Kepone	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Kepone	2010-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0		< 20.0			< 20.0		< 20.0	< 20.0	< 20.0	< 22.5
Kepone	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Kepone	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 0.330	< 10.0	< 10.0	
Kepone	2011-09	ug/L																
Kepone	2012-03	ug/L																
Kepone	2012-09	ug/L																
Kepone	2013-03	ug/L																
Kepone	2013-09	ug/L																
Kepone	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Kepone	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Kepone	2016-03	ug/L			< 11.1	< 11.2												
Kepone	2016-06	ug/L			< 11.4	< 11.4												
Kepone	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Kepone	2023-01	ug/L															< 10.9	
Kepone	2023-03	ug/L															< 10.4	
Lead	2008-08	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.03**	**0.01**	**0.01**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	2009-03	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**	**0.01**	< 0.01	**0.01**	**0.01**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**
Lead	2009-07	mg/L	< 0.01	**0.07**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	2009-09	mg/L	< 0.004	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Lead	2010-03	mg/L	< 0.00400	**0.00431**	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	**0.00480**	< 0.00400	< 0.00400
Lead	2010-09	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	**0.00691**

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Isophorone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Isophorone	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Isophorone	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Isophorone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Isophorone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Isophorone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Isophorone	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Isophorone	2015-10	ug/L	< 11.8		< 10.3					< 11							
Isophorone	2016-03	ug/L					< 10.9			< 11.2							
Isophorone	2016-06	ug/L															
Isophorone	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Isophorone	2023-01	ug/L															
Isophorone	2023-03	ug/L					< 10			< 10							
Isosafrole	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Isosafrole	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Isosafrole	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Isosafrole	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Isosafrole	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Isosafrole	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Isosafrole	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Isosafrole	2011-09	ug/L					< 10.0										
Isosafrole	2012-03	ug/L					< 10.0										
Isosafrole	2012-09	ug/L					< 10.0										
Isosafrole	2013-03	ug/L					< 11.8										
Isosafrole	2013-09	ug/L															
Isosafrole	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Isosafrole	2015-10	ug/L	< 11.8		< 10.3					< 11							
Isosafrole	2016-03	ug/L					< 10.9			< 11.2							
Isosafrole	2016-06	ug/L															
Isosafrole	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Isosafrole	2023-01	ug/L															
Isosafrole	2023-03	ug/L					< 10			< 10							
Kepone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Kepone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Kepone	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Kepone	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Kepone	2010-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0								
Kepone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Kepone	2011-03	ug/L	< 10.0	**1.63 J**	**0.614 J**	< 10.0	< 10.0	< 10.0									
Kepone	2011-09	ug/L		< 10.0	< 10.0		< 10.0										
Kepone	2012-03	ug/L		< 10.0	< 10.0		< 10.0										
Kepone	2012-09	ug/L		< 10.0	< 10.0		< 10.0										
Kepone	2013-03	ug/L		< 10.5	< 10.6		< 11.8										
Kepone	2013-09	ug/L		< 10.1	< 11.0												
Kepone	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Kepone	2015-10	ug/L	< 11.8		< 10.3					< 11							
Kepone	2016-03	ug/L					< 10.9			< 11.2							
Kepone	2016-06	ug/L															
Kepone	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Kepone	2023-01	ug/L															
Kepone	2023-03	ug/L					< 10			< 10							
Lead	2008-08	mg/L	**0.03**	< 0.01	< 0.01	< 0.01	~~< 0.01~~	**0.01**	< 0.01								
Lead	2009-03	mg/L	**0.02**	**0.06**	< 0.01	**0.01**	~~< 0.01~~	< 0.01	**0.01**								
Lead	2009-07	mg/L	**0.03**	< 0.01	< 0.01	< 0.01	~~< 0.01~~	< 0.01	**0.01**								
Lead	2009-09	mg/L	< 0.00400	< 0.00400	**0.00881**	< 0.00400	< 0.00400	< 0.00400									
Lead	2010-03	mg/L	< 0.00400	< 0.00400	< 0.00400	**0.00656**	< 0.00400	**0.0129**	**0.00503**								
Lead	2010-09	mg/L	< 0.00400	< 0.00400	< 0.00400	**0.00637**	< 0.00400	< 0.00400	< 0.00400								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Lead	2011-03	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2011-09	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2012-03	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	**0.00410**	< 0.00400
Lead	2012-09	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	**0.00676**	< 0.00400
Lead	2013-03	mg/L	**0.00118 J**	**0.0134**		**0.00172 J**	< 0.00400		< 0.004 J	< 0.004 J	< 0.004	< 0.004 J	< 0.004	< 0.004	< 0.00400	< 0.00400	**0.00661**	**0.00914**
Lead	2013-05	mg/L			**0.000980 J**			< 0.00400										
Lead	2013-09	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	**0.00184 J**	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	**0.000949 J**	**0.00295 J**	**0.00477**
Lead	2013-11	mg/L																
Lead	2014-03	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	**0.00144 J**	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	**0.00719**	< 0.00400	**0.00440**
Lead	2014-06	mg/L																
Lead	2014-09	mg/L	**0.000557**	**0.000787**	**0.000259 J**	**0.000142 J**	**0.000301 J**	**0.000826**	**0.000286 J**	**0.000923**	**0.000158 J**	**0.000498 J**	**0.000199 J**	**0.000183 J**	**0.000155 J**	**0.000968**	**0.0052**	**0.000394 J**
Lead	2015-03	mg/L	**0.000866**	**0.0158**	**0.000407 J**	**0.000259 J**	**0.000182 J**	**0.000218 J**	**0.000685**	< 0.000500	**0.000151 J**	**0.000159 J**	**0.000100 J**	< 0.000500	**0.000159 J**	**0.000978**	**0.00024 J**	< 0.000500
Lead	2015-09	mg/L	**0.000229 J**	**0.00421**		**0.000107 J**	**0.000279 J**	< 0.0005			**0.000361 J**	< 0.0005	**0.000642**	< 0.0005		**0.000369 J**	< 0.0005	
Lead	2015-10	mg/L			**0.000305 J**				**0.000252 J**	< 0.0005					**0.00025 J**			< 0.0005
Lead	2016-03	mg/L	< 0.0005	**0.000373 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000308 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.00058**	**0.000221 J**	< 0.0005
Lead	2016-06	mg/L			< 0.0005 J	< 0.0005												
Lead	2016-08	mg/L	**0.000565**	**0.000589**	< 0.0005	< 0.0005	**0.000279 J**	**0.000256 J**	**0.00165**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.00115**	< 0.0005	< 0.0005
Lead	2017-03	mg/L	**0.000841**	**0.00042 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000621**	< 0.0005	**0.000702**	< 0.0005	< 0.0005
Lead	2017-08	mg/L	< 0.0005	**0.000491 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000447 J**	< 0.0005	< 0.0005
Lead	2017-11	mg/L																
Lead	2018-03	mg/L	**0.000499 J**	**0.00449**	< 0.0005	< 0.0005	**0.000382 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000838**	< 0.0005	< 0.0005
Lead	2018-06	mg/L																
Lead	2018-08	mg/L	< 0.0005	**0.000823**	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005	**0.000367 J**	< 0.0005	< 0.0005
Lead	2018-09	mg/L					**0.000373 J**						< 0.0005	< 0.0005				
Lead	2018-11	mg/L																
Lead	2019-03	mg/L	< 0.0005	**0.000434 J**	**0.000285 J**	< 0.0005	< 0.0005	< 0.0005	**0.000281 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2019-08	mg/L	**0.000348 J**	**0.00128**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2020-03	mg/L	**0.000822**	**0.000795**	< 0.0005			< 0.0005		< 0.0005	< 0.002	< 0.0005	< 0.0005	< 0.002	< 0.0005	**0.000516**	< 0.0005	< 0.0005
Lead	2020-04	mg/L				< 0.0005	< 0.0005		< 0.0005									
Lead	2020-08	mg/L	**0.00093**	< 0.0005	**0.000147 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000152 J**	< 0.0005	**0.00038 J**	< 0.0005	< 0.0005
Lead	2021-03	mg/L							< 0.0005	< 0.0005	< 0.0005	< 0.0005						
Lead	2021-08	mg/L	**0.000275 J**	**0.00195**	**0.000346 J**	< 0.0005	**0.000222 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000256 J**	< 0.0005	< 0.0005
Lead	2022-03	mg/L							< 0.0005	< 0.002	< 0.0005	< 0.0005						
Lead	2022-08	mg/L	**0.000741 J**	**0.00058**	< 0.0005	**0.0004 J**	**0.000387 J**		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000544**	< 0.0005	< 0.0005
Lead	2023-01	mg/L															< 0.0005	
Lead	2023-03	mg/L							< 0.0005	< 0.0005	**0.000381 J**	< 0.0005					**0.000286 J**	
Lead	2023-08	mg/L	**0.000974**	**0.00201**	< 0.0005	< 0.0005	**0.00076**		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.00058**	< 0.0005	< 0.0005
Lead	2024-03	mg/L							< 0.0005	< 0.0005	< 0.0005	< 0.0005						
Lead	2024-08	mg/L	**0.000817**	**0.00109**	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000339 J**	< 0.0005	< 0.0005	**0.000885**	< 0.0005	< 0.0005
Lindane (BHC, Gamma-)	2008-08	ug/L	< 0.053			< 0.054	< 0.062	< 0.052	< 0.061	< 0.047	< 0.053	< 0.053	< 0.056	< 0.056	< 0.058	< 0.053		< 0.053
Lindane (BHC, Gamma-)	2008-09	ug/L		< 0.016	< 0.016												< 0.016	
Lindane (BHC, Gamma-)	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Lindane (BHC, Gamma-)	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Lindane (BHC, Gamma-)	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Lindane (BHC, Gamma-)	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Lindane (BHC, Gamma-)	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Lindane (BHC, Gamma-)	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Lindane (BHC, Gamma-)	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Lindane (BHC, Gamma-)	2015-10	ug/L							**0.00433 J**	**0.00315 J**					< 0.0386			< 0.0368
Lindane (BHC, Gamma-)	2016-03	ug/L			< 0.032	< 0.0356												
Lindane (BHC, Gamma-)	2016-06	ug/L			< 0.0364	**0.00405 J**												
Lindane (BHC, Gamma-)	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	**0.00525 J**	**0.008 J**	< 0.0376	**0.00462 J**	**0.00334 J**	**0.00234 J**	< 0.0395	< 0.039	< 0.0381	< 0.04
Lindane (BHC, Gamma-)	2023-01	ug/L															< 0.0727	
Lindane (BHC, Gamma-)	2023-03	ug/L															< 0.0667	
m/p-Cresol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	**10.3**
m/p-Cresol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m/p-Cresol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Lead	2011-03	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	**0.0101**	**0.0208**								
Lead	2011-09	mg/L	< 0.00400	< 0.00400	< 0.00400	**0.00627**	< 0.00400	< 0.00400	**0.0411**								
Lead	2012-03	mg/L	< 0.00400	< 0.00400	< 0.00400	**0.00424**	< 0.00400	< 0.00400	**0.0160**								
Lead	2012-09	mg/L	< 0.00400	< 0.00400	< 0.00400	**0.0128**	< 0.00400	**0.00436**	**0.00802**								
Lead	2013-03	mg/L	**0.00657**	< 0.004 J	**0.00208 J**		**0.000925 J**	**0.00261 J**	**0.00609**								
Lead	2013-05	mg/L															
Lead	2013-09	mg/L	**0.00145 J**	< 0.00400	< 0.00400	**0.00245 J**	< 0.00400	**0.00117 J**	**0.00342 J**	~~**0.00297 J**~~	< 0.00400	**0.00432**	**0.00142 J**	**0.0138**	**0.00461**		
Lead	2013-11	mg/L								~~**0.00288 J**~~	**0.00111 J**	**0.00194 J**	< 0.00400	**0.0244**	< 0.00400		
Lead	2014-03	mg/L	< 0.00400	< 0.00400	< 0.00400	**0.0648**	< 0.00400	**0.00489**	**0.00584**	~~< 0.00400~~	< 0.00400	< 0.00400	< 0.00400	**0.00545**	< 0.00400		
Lead	2014-06	mg/L								~~**0.00121 J**~~	**0.00114 J**	**0.00122 J**	< 0.00400	**0.00730**	< 0.00400		
Lead	2014-09	mg/L	**0.00101**	**0.000579**	**0.000191 J**	**0.00252**	**0.000354 J**	**0.00325**	**0.00248**	~~**0.000456 J**~~	**0.000498 J**	**0.000913**	**0.000211 J**	**0.00324**	**0.00066**		
Lead	2015-03	mg/L	**0.00114**	**0.000354 J**	< 0.000500	**0.000512**	< 0.0005	**0.00408**	**0.000302 J**	**0.000731**	< 0.000500	< 0.000500	**0.000102 J**	< 0.000500	< 0.000500		
Lead	2015-09	mg/L		**0.000197 J**		**0.000548**	**0.00019 J**	**0.000447 J**	< 0.0005								
Lead	2015-10	mg/L	**0.000327 J**		**0.000199 J**					**0.00695**	< 0.0005	< 0.0005	< 0.0005	**0.00115**	< 0.0005		
Lead	2016-03	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.00041 J**	**0.000324 J**	**0.000223 J**	< 0.0005	< 0.0005	**0.000291 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005		
Lead	2016-06	mg/L															
Lead	2016-08	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000482 J**	< 0.0005	**0.000804**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000486 J**		
Lead	2017-03	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.0005**	< 0.0005	< 0.0005	**0.000391 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		
Lead	2017-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000366 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		
Lead	2017-11	mg/L														< 0.0005	< 0.0005
Lead	2018-03	mg/L	< 0.0005	< 0.0005	**0.00076**	**0.000337 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000484 J**
Lead	2018-06	mg/L														< 0.0005	< 0.0005
Lead	2018-08	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000365 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005			
Lead	2018-09	mg/L													< 0.0005	< 0.0005	< 0.0005
Lead	2018-11	mg/L														< 0.0005	< 0.0005
Lead	2019-03	mg/L	< 0.0005	**0.000822**	< 0.0005	**0.000497 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2019-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2020-03	mg/L	< 0.0005	**0.000459 J**		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.0003 J**	< 0.0005	< 0.0005		< 0.0005	**0.000737**	< 0.0005
Lead	2020-04	mg/L			< 0.0005									< 0.0005			
Lead	2020-08	mg/L	< 0.0005	< 0.0005	**0.000412 J**	**0.000217 J**	**0.000118 J**	< 0.0005	< 0.0005	**0.000347 J**			< 0.0005	< 0.0005	< 0.0005		< 0.0005
Lead	2021-03	mg/L		**0.000232 J**			< 0.0005			**0.000931**							
Lead	2021-08	mg/L	**0.000272 J**	< 0.0005	**0.000251 J**	**0.000384 J**	**0.000232 J**	< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005		< 0.0005
Lead	2022-03	mg/L		< 0.002			< 0.0005			< 0.0005							
Lead	2022-08	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.00025 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005		< 0.0005
Lead	2023-01	mg/L															
Lead	2023-03	mg/L		**0.000534**			< 0.0005			< 0.0005							
Lead	2023-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000288 J**	< 0.0005			< 0.0005	< 0.0005	< 0.0005		< 0.0005
Lead	2024-03	mg/L		< 0.0005			< 0.0005			< 0.0005							
Lead	2024-08	mg/L	< 0.0005	**0.00051**	**0.00035 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005		< 0.0005
Lindane (BHC, Gamma-)	2008-08	ug/L		< 0.047	< 0.051	< 0.055											
Lindane (BHC, Gamma-)	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Lindane (BHC, Gamma-)	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Lindane (BHC, Gamma-)	2009-07	ug/L					< 0.0320		< 0.0320								
Lindane (BHC, Gamma-)	2009-09	ug/L					< 0.0320		< 0.0320								
Lindane (BHC, Gamma-)	2010-03	ug/L					< 0.0320		< 0.0320								
Lindane (BHC, Gamma-)	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Lindane (BHC, Gamma-)	2011-03	ug/L					< 0.0320										
Lindane (BHC, Gamma-)	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	< 0.0356	< 0.0352								
Lindane (BHC, Gamma-)	2015-10	ug/L	< 0.0372		< 0.0356					< 0.0372							
Lindane (BHC, Gamma-)	2016-03	ug/L					**0.00674 J**			< 0.0356							
Lindane (BHC, Gamma-)	2016-06	ug/L															
Lindane (BHC, Gamma-)	2020-08	ug/L	< 0.039	**0.00926 J**	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Lindane (BHC, Gamma-)	2023-01	ug/L															
Lindane (BHC, Gamma-)	2023-03	ug/L					< 0.0696			< 0.064							
m/p-Cresol	2008-08	ug/L	< 10	< 10	< 10	**9.02 J**	< 10	< 11.1	< 10								
m/p-Cresol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
m/p-Cresol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
m/p-Cresol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
m/p-Cresol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
m/p-Cresol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
m/p-Cresol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
m/p-Cresol	2014-03	ug/L																< 11.9
m/p-Cresol	2014-09	ug/L																< 12.3
m/p-Cresol	2015-03	ug/L																< 10.6
m/p-Cresol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	**1.45 J**	< 10.9	< 11.2		< 11.4	< 10.5	
m/p-Cresol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
m/p-Cresol	2016-03	ug/L			< 11.1	< 11.2												< 10.9
m/p-Cresol	2016-06	ug/L			< 11.4	< 11.4												
m/p-Cresol	2016-08	ug/L																< 11.6
m/p-Cresol	2017-03	ug/L																< 11.8
m/p-Cresol	2017-08	ug/L																< 11.1
m/p-Cresol	2018-03	ug/L																< 11.1
m/p-Cresol	2018-08	ug/L																< 11.1
m/p-Cresol	2019-03	ug/L																< 12
m/p-Cresol	2019-08	ug/L																< 10.8
m/p-Cresol	2020-03	ug/L																< 12.5
m/p-Cresol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
m/p-Cresol	2021-03	ug/L																
m/p-Cresol	2021-08	ug/L																< 11.5
m/p-Cresol	2022-08	ug/L																
m/p-Cresol	2023-01	ug/L															< 10.9	
m/p-Cresol	2023-03	ug/L															< 10.4	
m/p-Cresol	2023-08	ug/L																< 11.4
m/p-Cresol	2024-08	ug/L																< 10
Mercury	2008-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mercury	2009-03	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mercury	2010-09	mg/L	< 0.000200	< 0.000200	< 0.000200			< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200		< 0.000200	< 0.000200	< 0.000200	< 0.000200	
Mercury	2011-03	mg/L	< 0.000200	< 0.000200	< 0.000200			< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	
Mercury	2013-09	mg/L																
Mercury	2013-11	mg/L																
Mercury	2014-03	mg/L																
Mercury	2014-06	mg/L																
Mercury	2014-09	mg/L																
Mercury	2015-03	mg/L																
Mercury	2015-09	mg/L	< 0.0002	< 0.0002			< 0.0002	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002		< 0.0002	< 0.0002	
Mercury	2015-10	mg/L							< 0.0002	< 0.0002					< 0.0002			< 0.0002
Mercury	2016-03	mg/L			< 0.0002	< 0.0002												
Mercury	2016-06	mg/L			< 0.0002	< 0.0002												
Mercury	2017-03	mg/L																
Mercury	2017-08	mg/L																
Mercury	2020-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mercury	2023-01	mg/L															< 0.0002	
Mercury	2023-03	mg/L															< 0.0002	
Methacrylonitrile	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methacrylonitrile	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methacrylonitrile	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Methacrylonitrile	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Methacrylonitrile	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Methacrylonitrile	2010-09	ug/L	< 1.00	< 1.00	< 1.00			< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	
Methacrylonitrile	2011-03	ug/L	< 1.00	< 1.00	< 1.00			< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Methacrylonitrile	2012-09	ug/L														< 1.00		
Methacrylonitrile	2015-09	ug/L	< 10	< 10			< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
Methacrylonitrile	2015-10	ug/L							< 10	< 10					< 10			< 10
Methacrylonitrile	2016-03	ug/L			< 10	< 10												

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
m/p-Cresol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
m/p-Cresol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
m/p-Cresol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
m/p-Cresol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
m/p-Cresol	2014-03	ug/L					< 11.2										
m/p-Cresol	2014-09	ug/L					< 11										
m/p-Cresol	2015-03	ug/L					< 11										
m/p-Cresol	2015-09	ug/L		< 11		< 11.2	**404**	< 11.2	< 11.2								
m/p-Cresol	2015-10	ug/L	< 11.8		< 10.3					< 11							
m/p-Cresol	2016-03	ug/L					< 10.9			< 11.2							
m/p-Cresol	2016-06	ug/L															
m/p-Cresol	2016-08	ug/L					< 11.8			< 10.6							
m/p-Cresol	2017-03	ug/L					< 10.5			< 10.9							
m/p-Cresol	2017-08	ug/L					< 10.6			< 10.4							
m/p-Cresol	2018-03	ug/L					< 12.5			< 12.3							
m/p-Cresol	2018-08	ug/L					< 13.2			< 10.6							
m/p-Cresol	2019-03	ug/L					< 13			< 11.1							
m/p-Cresol	2019-08	ug/L					< 10.8			< 10.9							
m/p-Cresol	2020-03	ug/L					< 13.7			< 12.5							
m/p-Cresol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
m/p-Cresol	2021-03	ug/L					< 11.1			< 12.2							
m/p-Cresol	2021-08	ug/L					< 12.5			< 10.8							
m/p-Cresol	2022-08	ug/L					~~< 10.4 R~~			~~< 10 R~~							
m/p-Cresol	2023-01	ug/L															
m/p-Cresol	2023-03	ug/L					< 10			< 10							
m/p-Cresol	2023-08	ug/L					< 9.62			< 11.4							
m/p-Cresol	2024-08	ug/L					< 10			< 10.9							
Mercury	2008-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002								
Mercury	2009-03	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002								
Mercury	2010-09	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200										
Mercury	2011-03	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200									
Mercury	2013-09	mg/L								~~< 0.000200~~							
Mercury	2013-11	mg/L								~~< 0.000200 J~~							
Mercury	2014-03	mg/L					< 0.000200			~~< 0.000200~~							
Mercury	2014-06	mg/L								~~< 0.000200~~							
Mercury	2014-09	mg/L					< 0.0002			~~< 0.0002~~							
Mercury	2015-03	mg/L					< 0.0002			< 0.000200							
Mercury	2015-09	mg/L		< 0.0002		< 0.0002	< 0.0002	< 0.0002	< 0.0002								
Mercury	2015-10	mg/L	< 0.0002		< 0.0002					< 0.0002							
Mercury	2016-03	mg/L					< 0.0002			< 0.0002							
Mercury	2016-06	mg/L															
Mercury	2017-03	mg/L					< 0.0002			< 0.0002							
Mercury	2017-08	mg/L					< 0.0002			< 0.0002							
Mercury	2020-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002							
Mercury	2023-01	mg/L															
Mercury	2023-03	mg/L					< 0.0002			< 0.0002							
Methacrylonitrile	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Methacrylonitrile	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Methacrylonitrile	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Methacrylonitrile	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Methacrylonitrile	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Methacrylonitrile	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00										
Methacrylonitrile	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00									
Methacrylonitrile	2012-09	ug/L				< 1.00											
Methacrylonitrile	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
Methacrylonitrile	2015-10	ug/L	< 10		< 10					< 10							
Methacrylonitrile	2016-03	ug/L					< 10			< 10							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Methacrylonitrile	2016-06	ug/L			< 10	< 10												
Methacrylonitrile	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methacrylonitrile	2023-01	ug/L															< 10	
Methacrylonitrile	2023-03	ug/L															< 10	
Methapyrilene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Methapyrilene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methapyrilene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Methapyrilene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Methapyrilene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Methapyrilene	2010-09	ug/L	< 10.0 R	< 10.0 R	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Methapyrilene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Methapyrilene	2012-03	ug/L																
Methapyrilene	2012-09	ug/L																
Methapyrilene	2013-03	ug/L																
Methapyrilene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Methapyrilene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Methapyrilene	2016-03	ug/L			< 11.1	< 11.2												
Methapyrilene	2016-06	ug/L			< 11.4	< 11.4												
Methapyrilene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Methapyrilene	2023-01	ug/L															< 10.9	
Methapyrilene	2023-03	ug/L															< 10.4	
Methoxychlor	2008-08	ug/L	< 0.11			< 0.11	< 0.12	< 0.1	< 0.12	< 0.093	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11		< 0.11
Methoxychlor	2008-09	ug/L		< 0.016	< 0.016												< 0.16	
Methoxychlor	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Methoxychlor	2009-07	ug/L			< 0.0320									< 0.0320			< 0.032	
Methoxychlor	2009-09	ug/L			< 0.0320									< 0.036			< 0.032	
Methoxychlor	2010-03	ug/L			< 0.0320									< 0.0320			< 0.0320	
Methoxychlor	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320			< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320		< 0.0320	< 0.0320	< 0.0320	< 0.0320	
Methoxychlor	2011-03	ug/L			< 0.0320				< 0.0320								< 0.0320	
Methoxychlor	2015-09	ug/L	< 0.036	< 0.0356			< 0.0352	< 0.0386			< 0.0337	< 0.0352	< 0.0333	< 0.036		< 0.0356	< 0.0376	
Methoxychlor	2015-10	ug/L							< 0.04	< 0.0372					< 0.0386			< 0.0368
Methoxychlor	2016-03	ug/L			**0.00274 J**	< 0.0356												
Methoxychlor	2016-06	ug/L			< 0.0364	< 0.0364												
Methoxychlor	2020-08	ug/L	< 0.04	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.0416	< 0.0376	< 0.0368	< 0.0386	< 0.0376	< 0.0395	< 0.039	< 0.0381	< 0.04
Methoxychlor	2023-01	ug/L															< 0.0727	
Methoxychlor	2023-03	ug/L															< 0.0667	
Methyl Methacrylate	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl Methacrylate	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl Methacrylate	2009-07	ug/L	< 2	< 2.00		< 2		< 2	< 2	< 2	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2	
Methyl Methacrylate	2009-09	ug/L	< 2	< 2.00		< 2.00		< 2.00	< 2.00	< 10.0	< 2.00	< 2	< 2	< 2	< 2	< 2	< 2	
Methyl Methacrylate	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Methyl Methacrylate	2010-09	ug/L	< 20.0	< 20.0	< 20.0			< 20.0	< 20.0	< 20.0	< 20.0	< 20.0		< 20.0	< 20.0	< 20.0	< 20.0	
Methyl Methacrylate	2011-03	ug/L	< 2.00	< 2.00	< 2.00			< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
Methyl Methacrylate	2012-09	ug/L														< 2.00		
Methyl Methacrylate	2015-09	ug/L	< 2	< 2			< 2	< 2			< 2	< 2	< 2	< 2		< 2	< 2	
Methyl Methacrylate	2015-10	ug/L							< 2	< 2					< 2			< 2
Methyl Methacrylate	2016-03	ug/L			< 2	< 2												
Methyl Methacrylate	2016-06	ug/L			< 2	< 2												
Methyl Methacrylate	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl Methacrylate	2023-01	ug/L															< 2	
Methyl Methacrylate	2023-03	ug/L															< 2	
Methyl Methanesulfonate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Methyl Methanesulfonate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl Methanesulfonate	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Methyl Methanesulfonate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Methyl Methanesulfonate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Methyl Methanesulfonate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Methacrylonitrile	2016-06	ug/L															
Methacrylonitrile	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Methacrylonitrile	2023-01	ug/L															
Methacrylonitrile	2023-03	ug/L					< 10			< 10							
Methapyrilene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Methapyrilene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Methapyrilene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Methapyrilene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Methapyrilene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Methapyrilene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Methapyrilene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Methapyrilene	2012-03	ug/L					< 10.0										
Methapyrilene	2012-09	ug/L					< 10.0										
Methapyrilene	2013-03	ug/L					< 11.8										
Methapyrilene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Methapyrilene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Methapyrilene	2016-03	ug/L					< 10.9			< 11.2							
Methapyrilene	2016-06	ug/L															
Methapyrilene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Methapyrilene	2023-01	ug/L															
Methapyrilene	2023-03	ug/L					< 10			< 10							
Methoxychlor	2008-08	ug/L		< 0.093	< 0.1	< 0.11											
Methoxychlor	2008-09	ug/L	< 0.016				< 0.016	< 0.016	< 0.016								
Methoxychlor	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032								
Methoxychlor	2009-07	ug/L					< 0.0320		< 0.0320								
Methoxychlor	2009-09	ug/L					< 0.0320		< 0.0320								
Methoxychlor	2010-03	ug/L					< 0.0320		< 0.0320								
Methoxychlor	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320										
Methoxychlor	2011-03	ug/L					< 0.0320										
Methoxychlor	2015-09	ug/L		< 0.0352		< 0.0356	< 0.0368	**0.00333 J**	< 0.0352								
Methoxychlor	2015-10	ug/L	< 0.0372		< 0.0356					**0.00279 J**							
Methoxychlor	2016-03	ug/L					< 0.0333			< 0.0356							
Methoxychlor	2016-06	ug/L															
Methoxychlor	2020-08	ug/L	< 0.039	< 0.0376	< 0.0337	< 0.0386	< 0.0438	< 0.0368	< 0.0356	< 0.0352							
Methoxychlor	2023-01	ug/L															
Methoxychlor	2023-03	ug/L					< 0.0696			< 0.064							
Methyl Methacrylate	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Methyl Methacrylate	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Methyl Methacrylate	2009-07	ug/L	< 2.00	< 2	< 2	< 2	< 2.00										
Methyl Methacrylate	2009-09	ug/L	< 2.00	< 10.0	< 2.00	< 2.00	< 2.00										
Methyl Methacrylate	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Methyl Methacrylate	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0										
Methyl Methacrylate	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00									
Methyl Methacrylate	2012-09	ug/L				< 2.00											
Methyl Methacrylate	2015-09	ug/L		< 2		< 2	< 2	< 2	< 2								
Methyl Methacrylate	2015-10	ug/L	< 2		< 2					< 2							
Methyl Methacrylate	2016-03	ug/L					< 2			< 2							
Methyl Methacrylate	2016-06	ug/L															
Methyl Methacrylate	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2							
Methyl Methacrylate	2023-01	ug/L															
Methyl Methacrylate	2023-03	ug/L					< 2			< 2							
Methyl Methanesulfonate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Methyl Methanesulfonate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Methyl Methanesulfonate	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Methyl Methanesulfonate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Methyl Methanesulfonate	2010-03	ug/L	< 10.0	< 10.0	**0.346 J**	< 10.0	< 10.0	< 10.0	< 10.0								
Methyl Methanesulfonate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Methyl Methanesulfonate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Methyl Methanesulfonate	2011-09	ug/L																
Methyl Methanesulfonate	2012-03	ug/L																
Methyl Methanesulfonate	2012-09	ug/L																
Methyl Methanesulfonate	2013-03	ug/L																
Methyl Methanesulfonate	2013-09	ug/L																
Methyl Methanesulfonate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Methyl Methanesulfonate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Methyl Methanesulfonate	2016-03	ug/L			< 11.1	< 11.2												
Methyl Methanesulfonate	2016-06	ug/L			< 11.4	< 11.4												
Methyl Methanesulfonate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Methyl Methanesulfonate	2023-01	ug/L															< 10.9	
Methyl Methanesulfonate	2023-03	ug/L															< 10.4	
Methyl Parathion	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Methyl Parathion	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl Parathion	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Methyl Parathion	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Methyl Parathion	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Methyl Parathion	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Methyl Parathion	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Methyl Parathion	2011-09	ug/L										< 10.0						
Methyl Parathion	2012-03	ug/L																
Methyl Parathion	2012-09	ug/L																
Methyl Parathion	2013-03	ug/L																
Methyl Parathion	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Methyl Parathion	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Methyl Parathion	2016-03	ug/L			< 11.1	< 11.2												
Methyl Parathion	2016-06	ug/L			< 11.4	< 11.4												
Methyl Parathion	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Methyl Parathion	2023-01	ug/L															< 10.9	
Methyl Parathion	2023-03	ug/L															< 10.4	
Methylene Chloride	2008-08	ug/L	< 10	< 10	< 10	< 5	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	2009-03	ug/L	**7.55**	< 5	< 5	**7.24**	< 5	< 5	< 5	< 5	< 5	**6.04**	< 5	< 5	**5.43**	< 5	< 5	< 5
Methylene Chloride	2009-07	ug/L	< 5	< 5.00		< 5		< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	
Methylene Chloride	2009-09	ug/L	< 5	< 5.00		< 5.00		< 5.00	< 5.00	< 25.0	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	
Methylene Chloride	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 50.0	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2013-03	ug/L	< 5.00	< 5		< 5.00	< 5.00		< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5
Methylene Chloride	2013-05	ug/L			< 5.00 J			< 5.00 J										
Methylene Chloride	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	**0.187 J**	**0.194 J**
Methylene Chloride	2013-11	ug/L																
Methylene Chloride	2014-03	ug/L	< 5.00 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00 J	< 5.00 J	< 5.00 J
Methylene Chloride	2014-06	ug/L																
Methylene Chloride	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5 J	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2015-03	ug/L	< 5	< 5	< 5.00	< 5.00	< 5.00 J	< 5.00	< 5.00	< 5.00 J	< 5	< 5	< 5.00 J	< 5.00 J	< 5	< 5 J	< 5	< 5.00
Methylene Chloride	2015-09	ug/L	< 5	< 5 J		< 5	< 5	< 5			< 5 J	< 5	< 5	< 5		< 5 J	< 5	
Methylene Chloride	2015-10	ug/L			< 5				< 5	< 5 J					< 5 J			< 5 J
Methylene Chloride	2016-03	ug/L	< 5	< 5 J	< 5	< 5	< 5	< 5 J	< 5	< 5 J	< 5 J	< 5 J	< 5	< 5	< 5	< 5	< 5 J	< 5
Methylene Chloride	2016-06	ug/L			< 5	< 5												
Methylene Chloride	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2017-11	ug/L																

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Table 14
Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Methyl Methanesulfonate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Methyl Methanesulfonate	2011-09	ug/L			< 10.0		< 10.0										
Methyl Methanesulfonate	2012-03	ug/L			< 10.0		< 10.0										
Methyl Methanesulfonate	2012-09	ug/L			< 10.0	< 10.0	< 10.0										
Methyl Methanesulfonate	2013-03	ug/L			< 10.6		< 11.8										
Methyl Methanesulfonate	2013-09	ug/L			< 11.0												
Methyl Methanesulfonate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Methyl Methanesulfonate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Methyl Methanesulfonate	2016-03	ug/L					< 10.9			< 11.2							
Methyl Methanesulfonate	2016-06	ug/L															
Methyl Methanesulfonate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Methyl Methanesulfonate	2023-01	ug/L															
Methyl Methanesulfonate	2023-03	ug/L					< 10			< 10							
Methyl Parathion	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Methyl Parathion	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Methyl Parathion	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Methyl Parathion	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Methyl Parathion	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Methyl Parathion	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Methyl Parathion	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Methyl Parathion	2011-09	ug/L					< 10.0										
Methyl Parathion	2012-03	ug/L					< 10.0										
Methyl Parathion	2012-09	ug/L					< 10.0										
Methyl Parathion	2013-03	ug/L					< 11.8										
Methyl Parathion	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Methyl Parathion	2015-10	ug/L	< 11.8		< 10.3					< 11							
Methyl Parathion	2016-03	ug/L					**0.877 J**			< 11.2							
Methyl Parathion	2016-06	ug/L															
Methyl Parathion	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Methyl Parathion	2023-01	ug/L															
Methyl Parathion	2023-03	ug/L					< 10			< 10							
Methylene Chloride	2008-08	ug/L	< 10	< 5	< 5	< 5	< 10	< 10	< 10								
Methylene Chloride	2009-03	ug/L	**5.17**	< 5	**6.07**	**6.19**	< 5	< 5	< 5								
Methylene Chloride	2009-07	ug/L	< 5.00	< 5	< 5	< 5	< 5.00										
Methylene Chloride	2009-09	ug/L	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00										
Methylene Chloride	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2013-03	ug/L	< 5	< 5	< 125		< 5.00	< 5	< 5								
Methylene Chloride	2013-05	ug/L															
Methylene Chloride	2013-09	ug/L	**0.319 J**	< 5.00	< 5.00	< 5.00	< 5.00	**0.225 J**	**0.208 J**		< 5.00	< 5.00	< 5.00	< 5.00	**0.185 J**		
Methylene Chloride	2013-11	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Methylene Chloride	2014-03	ug/L	< 5.00 J	< 5.00 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00 J	< 5.00		
Methylene Chloride	2014-06	ug/L									**0.701 J**	< 5.00 J	< 5.00 J	< 5.00 J	< 5.00		
Methylene Chloride	2014-09	ug/L	< 5	< 5	< 5 J	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	**0.617 J**		
Methylene Chloride	2015-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00 J		
Methylene Chloride	2015-09	ug/L		< 5 J		< 5	< 5	< 5	**0.692 J**								
Methylene Chloride	2015-10	ug/L	< 5 J		< 5					< 5 J	< 5 J	< 5	< 5 J	< 5	< 5 J		
Methylene Chloride	2016-03	ug/L	< 5 J	< 5 J	< 5	< 5 J	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Methylene Chloride	2016-06	ug/L															
Methylene Chloride	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Methylene Chloride	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Methylene Chloride	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
Methylene Chloride	2017-11	ug/L														< 5	**0.45 J**

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Methylene Chloride	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2018-06	ug/L																
Methylene Chloride	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Methylene Chloride	2018-09	ug/L					< 5						< 5	< 5				
Methylene Chloride	2018-11	ug/L																
Methylene Chloride	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2020-03	ug/L	< 5	< 5	< 5			< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2020-04	ug/L				< 5	< 5		< 5									
Methylene Chloride	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2021-03	ug/L							< 5	< 5	< 5	< 5						
Methylene Chloride	2021-08	ug/L	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2022-03	ug/L							< 5	< 5	< 5	< 5						
Methylene Chloride	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2023-01	ug/L															< 5	
Methylene Chloride	2023-03	ug/L							< 5	< 5	< 5	< 5					< 5	
Methylene Chloride	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2024-03	ug/L							< 5	< 5	< 5	< 5						
Methylene Chloride	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	2009-07	ug/L	< 5	< 5.00		< 5		< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	
Naphthalene	2009-09	ug/L	< 5	< 5.00		< 5.00		< 5.00	< 5.00	< 25.0	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	
Naphthalene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Naphthalene	2010-09	ug/L	< 5.00	< 5.00	< 5.00			< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	
Naphthalene	2011-03	ug/L	< 5.00	< 5.00	< 5.00			< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	
Naphthalene	2012-09	ug/L														< 5.00		
Naphthalene	2015-09	ug/L	< 5	< 5			< 5	< 5			< 5	< 5	< 5	< 5		< 5	< 5	
Naphthalene	2015-10	ug/L							< 5	< 5					< 5			< 5
Naphthalene	2016-03	ug/L			< 5	< 5												
Naphthalene	2016-06	ug/L			< 5	< 5												
Naphthalene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	2023-01	ug/L															< 5	
Naphthalene	2023-03	ug/L															< 5	
Nickel	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.06**	~~**0.107**~~	~~**0.158**~~	**0.062**	**0.088**	**0.063**	**0.05**	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	**0.057**	< 0.05	~~**0.101**~~	~~**0.179**~~	**0.065**	**0.08**	**0.069**	< 0.05	< 0.05	**0.061**	< 0.05	< 0.05
Nickel	2009-07	mg/L	< 0.05	**0.062**	< 0.05	< 0.05	**0.051**	< 0.05	~~**0.11**~~	~~**0.16**~~	**0.06**	**0.057**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	2009-09	mg/L	**0.0533**	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	~~**0.116**~~	~~**0.161**~~	< 0.0500	**0.105**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	2010-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	~~**0.109**~~	~~**0.163**~~	**0.0651**	**0.0651**	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2010-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.0644**	< 0.0500	~~**0.116**~~	~~**0.143**~~	**0.0686**	**0.0647**	**0.0542**	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2011-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	~~**0.0647**~~	~~**0.134**~~	**0.0920**	**0.0686**	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2011-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.0597**	< 0.0500	~~**0.0916**~~	~~**0.108**~~	**0.0688**	**0.0568**	**0.0600**	**0.0512**	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2012-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	~~**0.0838**~~	~~**0.106**~~	**0.0864**	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2012-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	~~**0.0814**~~	~~**0.132**~~	**0.0891**	< 0.0500	**0.0664**	**0.0502**	< 0.0500	**0.0787**	< 0.0500	< 0.0500
Nickel	2013-03	mg/L	**0.0313 J**	**0.0279 J**		**0.00740 J**	**0.00979 J**		~~**0.088**~~	~~**0.0831**~~	**0.139**	**0.0468 J**	< 0.05 J	**0.0263 J**	**0.0550**	**0.0277 J**	< 0.05	< 0.05 J
Nickel	2013-05	mg/L			< 0.0500			**0.0229 J**										
Nickel	2013-09	mg/L	**0.0290 J**	**0.0214 J**	< 0.0500	**0.0248 J**	**0.0499 J**	**0.0105 J**	~~**0.0903**~~	~~**0.102**~~	**0.117**	**0.0414 J**	**0.0492 J**	**0.0450 J**	**0.0398 J**	**0.00800 J**	< 0.0500	< 0.0500
Nickel	2013-11	mg/L																
Nickel	2014-03	mg/L	**0.0233 J**	**0.0249 J**	< 0.0500	**0.0210 J**	**0.0253 J**	**0.0241 J**	~~**0.0831**~~	~~**0.214**~~	**0.0716**	**0.0501**	**0.0630**	**0.0525**	**0.0499 J**	**0.0278 J**	< 0.0500	**0.00435 J**
Nickel	2014-06	mg/L																
Nickel	2014-09	mg/L	**0.0272**	**0.0246**	**0.000967 J**	**0.0287**	**0.0464**	**0.0119**	~~**0.0872**~~	~~**0.183**~~	**0.101**	**0.0405**	**0.0436**	**0.0373**	**0.0387**	**0.0175**	**0.00167 J**	**0.000654 J**
Nickel	2015-03	mg/L	**0.0251**	**0.033**	**0.00126 J**	**0.0195**	**0.0214**	**0.0228**	**0.0837**	~~**0.0507**~~	**0.0544**	**0.0254**	**0.0263**	**0.0377**	**0.0393**	**0.00777**	< 0.005	< 0.00500
Nickel	2015-09	mg/L	**0.032**	**0.0236**		**0.0215**	**0.00866**	**0.0207**			**0.084**	**0.0219**	**0.0312**	**0.0312**		**0.0108**	< 0.005	
Nickel	2015-10	mg/L			**0.00205 J**				**0.0802**	~~**0.0456**~~					**0.0318**			< 0.005
Nickel	2016-03	mg/L	**0.0267**	**0.023**	< 0.005	**0.0274**	**0.0211**	**0.0168**	**0.0724**	~~**0.0119**~~	**0.132**	**0.023**	**0.0102**	**0.0159**	**0.0245**	**0.0102**	< 0.005	< 0.005
Nickel	2016-06	mg/L			< 0.005	**0.0242**												
Nickel	2016-08	mg/L	**0.0266**	**0.0197**	< 0.005	**0.045**	**0.0161**	**0.0216**	**0.0716**	**0.0134**	**0.12**	**0.0177**	**0.0888**	**0.0257**	**0.0203**	**0.0123**	< 0.005	< 0.005

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Methylene Chloride	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2018-06	ug/L														< 5	< 5
Methylene Chloride	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5			
Methylene Chloride	2018-09	ug/L													< 5	< 5	< 5
Methylene Chloride	2018-11	ug/L														< 5	< 5
Methylene Chloride	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2020-03	ug/L	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5
Methylene Chloride	2020-04	ug/L			< 5									< 5			
Methylene Chloride	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Methylene Chloride	2021-03	ug/L		< 5			< 5			< 5							
Methylene Chloride	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Methylene Chloride	2022-03	ug/L		< 5			< 5			< 5							
Methylene Chloride	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Methylene Chloride	2023-01	ug/L															
Methylene Chloride	2023-03	ug/L		< 5			< 5			< 5							
Methylene Chloride	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Methylene Chloride	2024-03	ug/L		< 5			< 5			< 5							
Methylene Chloride	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
Naphthalene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
Naphthalene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
Naphthalene	2009-07	ug/L	< 5.00	< 5	< 5	< 5	< 5.00										
Naphthalene	2009-09	ug/L	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00										
Naphthalene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
Naphthalene	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00										
Naphthalene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00									
Naphthalene	2012-09	ug/L				< 5.00											
Naphthalene	2015-09	ug/L		< 5		< 5	< 5	< 5	< 5								
Naphthalene	2015-10	ug/L	< 5		< 5					< 5							
Naphthalene	2016-03	ug/L					< 5			< 5							
Naphthalene	2016-06	ug/L															
Naphthalene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5							
Naphthalene	2023-01	ug/L															
Naphthalene	2023-03	ug/L					< 5			< 5							
Nickel	2008-08	mg/L	< 0.05	**0.083**	**0.096**	< 0.05	< 0.05	< 0.05	< 0.05								
Nickel	2009-03	mg/L	< 0.05	**0.105**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Nickel	2009-07	mg/L	**0.05**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Nickel	2009-09	mg/L	< 0.0500	**0.167**	< 0.0500	< 0.0500	< 0.0500	< 0.0500									
Nickel	2010-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Nickel	2010-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Nickel	2011-03	mg/L	< 0.0500	< 0.0500	**0.0799**	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Nickel	2011-09	mg/L	< 0.0500	< 0.0500	**0.0582**	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Nickel	2012-03	mg/L	< 0.0500	< 0.0500	**0.0952**	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Nickel	2012-09	mg/L	< 0.0500	< 0.0500	**0.0995**	**0.126**	< 0.0500	< 0.0500	< 0.0500								
Nickel	2013-03	mg/L	**0.0236 J**	**0.0533**	**0.0769**		**0.00215 J**	< 0.05 J	< 0.05								
Nickel	2013-05	mg/L															
Nickel	2013-09	mg/L	**0.0193 J**	< 0.0500 J	**0.0325 J**	**0.0443 J**	**0.00743 J**	< 0.0500	< 0.0500	~~< 0.0500~~	< 0.0500	**0.00790 J**	**0.0333 J**	**0.0420 J**	**0.00271 J**		
Nickel	2013-11	mg/L								~~**0.00309 J**~~	**0.00230 J**	< 0.0500	**0.0488 J**	**0.00801 J**	**0.00244 J**		
Nickel	2014-03	mg/L	**0.0123 J**	**0.0238 J**	**0.0813**	**0.0663**	< 0.0500 J	**0.0134 J**	< 0.0500	~~< 0.0500~~	< 0.0500 J	< 0.0500	**0.0343 J**	< 0.0500	< 0.0500 J		
Nickel	2014-06	mg/L								~~< 0.0500~~	< 0.0500	< 0.0500	**0.0331 J**	**0.00908 J**	< 0.0500		
Nickel	2014-09	mg/L	**0.017**	**0.0154**	**0.0384**	**0.0262**	**0.0522**	**0.00632**	**0.000644 J**	~~< 0.005~~	**0.00143 J**	**0.0022 J**	**0.0322**	**0.0242**	**0.000798 J**		
Nickel	2015-03	mg/L	**0.0125**	**0.0708**	**0.0594**	**0.0225**	**0.00403 J**	**0.00521**	< 0.005	**0.00519**	**0.00118 J**	**0.000918 J**	**0.0222**	**0.00420 J**	**0.000997 J**		
Nickel	2015-09	mg/L		**0.0185**		**0.0274**	**0.00776**	< 0.005 J	< 0.005								
Nickel	2015-10	mg/L	**0.034**		**0.0663**					**0.000643 J**	**0.00158 J**	**0.000897 J**	**0.0364**	**0.0279**	**0.00103 J**		
Nickel	2016-03	mg/L	**0.0346**	**0.0165**	**0.0469**	**0.027**	**0.00924**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0287**	**0.0164**	< 0.005		
Nickel	2016-06	mg/L															
Nickel	2016-08	mg/L	**0.0197**	**0.0162**	**0.0403**	**0.0249**	**0.00233 J**	**0.00288 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.029**	**0.0486**	< 0.005		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Nickel	2017-03	mg/L	0.0547	0.0224	< 0.005	0.0239	0.0141	0.0236	0.0802	0.0113	0.066	0.0174	0.0149	0.0269	0.0275	0.00475 J	< 0.005	< 0.005
Nickel	2017-08	mg/L	0.035	0.0178	< 0.005	0.0341	0.0123	0.0229	0.0604	0.0227	0.0957	0.0114	0.0306	0.0452	0.0257	0.00656	< 0.005	< 0.005
Nickel	2017-11	mg/L																
Nickel	2018-03	mg/L	0.0286	0.0226	< 0.005	0.0199	0.00975	0.0189	0.0662	0.0358	0.104	0.0218	0.0236	0.0345	0.0255	0.00836	< 0.005	< 0.005
Nickel	2018-06	mg/L																
Nickel	2018-08	mg/L	0.0268	0.0177	0.00217 J	0.0305		0.0175	0.0644	0.02	0.0679	0.00855			0.0214	0.0105	< 0.005	< 0.005
Nickel	2018-09	mg/L					0.00894						0.0407	0.0412				
Nickel	2018-11	mg/L																
Nickel	2019-03	mg/L	0.0161	0.0167	< 0.005	0.0371	0.0124	0.0213	0.0781	0.0329	0.0554	0.015	0.00514	0.0134	0.00715	0.0132	< 0.005	< 0.005
Nickel	2019-08	mg/L	0.0231	0.0133	< 0.005	0.0592	0.0164	0.0153 J	0.0465	0.0423	0.0286	0.00801	0.0197	0.0451	0.0234	0.0034 J	< 0.005	< 0.005
Nickel	2020-03	mg/L	0.0338	0.014	< 0.005			0.0178		0.0133	0.0206	0.0148	0.00471 J	0.0417	0.0213	0.00271 J	< 0.005	< 0.005
Nickel	2020-04	mg/L				0.0342	0.0212		0.0599									
Nickel	2020-08	mg/L	0.0265	0.0144	< 0.005	0.0514	0.017	0.0197	0.0614	0.0133	0.0862	0.00917	0.0297	0.0682	0.0266	0.00617	< 0.005	< 0.005
Nickel	2021-03	mg/L							0.0753	0.0214	0.038	0.0177						
Nickel	2021-08	mg/L	0.0483	0.0142	< 0.005	0.0242	0.0112	0.00828	0.0691	0.0264	0.0348	0.0154	0.0252	0.0646	0.0316	0.0272	< 0.005	< 0.005
Nickel	2022-03	mg/L							0.0623	0.0508	0.0592	0.0203						
Nickel	2022-08	mg/L	0.0312 J	0.0127	< 0.005	0.0513	0.00671		0.063	0.0111	0.0804	0.00795	0.0233	0.0491	0.0276	0.00723	< 0.005	< 0.005
Nickel	2023-01	mg/L															< 0.005	
Nickel	2023-03	mg/L							0.0828	0.0117	0.0182	0.00967					< 0.005	
Nickel	2023-08	mg/L	0.0332	0.0145	< 0.005	0.0223	0.0083		0.0682	0.0132	0.0452	0.013	0.0218	0.0573	0.0291	0.00782	< 0.005	< 0.005
Nickel	2024-03	mg/L							0.076	0.0147	0.0898	0.0109						
Nickel	2024-08	mg/L	0.0246	0.0132	< 0.005	0.0894	0.0107		0.0822	0.0118	0.0293	0.00784	0.0193	0.0275	0.0128	0.00758	< 0.005	< 0.005
Nitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Nitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nitrobenzene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Nitrobenzene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Nitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	0.221 J	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Nitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Nitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Nitrobenzene	2011-09	ug/L																
Nitrobenzene	2012-03	ug/L					< 10.0											
Nitrobenzene	2012-09	ug/L					< 10.0											
Nitrobenzene	2013-03	ug/L					< 11.0											
Nitrobenzene	2013-09	ug/L					< 10.4											
Nitrobenzene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Nitrobenzene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Nitrobenzene	2016-03	ug/L			< 11.1	< 11.2												
Nitrobenzene	2016-06	ug/L			< 11.4	< 11.4												
Nitrobenzene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Nitrobenzene	2023-01	ug/L															< 10.9	
Nitrobenzene	2023-03	ug/L															< 10.4	
N-Nitrosodiethylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
N-Nitrosodiethylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodiethylamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
N-Nitrosodiethylamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
N-Nitrosodiethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
N-Nitrosodiethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
N-Nitrosodiethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
N-Nitrosodiethylamine	2012-09	ug/L																
N-Nitrosodiethylamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
N-Nitrosodiethylamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
N-Nitrosodiethylamine	2016-03	ug/L			< 11.1	< 11.2												
N-Nitrosodiethylamine	2016-06	ug/L			< 11.4	< 11.4												
N-Nitrosodiethylamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
N-Nitrosodiethylamine	2023-01	ug/L															< 10.9	
N-Nitrosodiethylamine	2023-03	ug/L															< 10.4	
N-Nitrosodimethylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Table 14
Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Nickel	2017-03	mg/L	0.0263	0.0165	0.0415	0.0315	0.00337 J	0.000954 J	< 0.005	< 0.005	0.00104 J	0.00153 J	0.0323	0.0221	< 0.005		
Nickel	2017-08	mg/L	0.0132	0.015	0.0458	0.0241	0.00472 J	< 0.005	< 0.005	< 0.005	< 0.005	0.00106 J	0.034	0.0329	0.00538		
Nickel	2017-11	mg/L														0.00334 J	0.00542
Nickel	2018-03	mg/L	0.0219	0.0987	0.0938	0.0332	0.00366 J	0.0012 J	< 0.005	< 0.005	0.000933 J	< 0.005	0.0318	0.00567	0.00213 J	0.00474 J	0.00392 J
Nickel	2018-06	mg/L														0.002 J	0.00237 J
Nickel	2018-08	mg/L	0.0157	0.0171	0.0537	0.0327	~~0.00548~~	< 0.005	< 0.005	< 0.005		0.00121 J	0.0424	0.0175			
Nickel	2018-09	mg/L													0.00234 J	0.00451 J	0.00172 J
Nickel	2018-11	mg/L														0.00126 J	0.00164 J
Nickel	2019-03	mg/L	0.0385	0.0105	0.0345	0.0304	0.00218 J	< 0.005	< 0.005	< 0.005		< 0.005	0.034	0.00254 J	< 0.005	< 0.005	< 0.005
Nickel	2019-08	mg/L	0.00886	0.0127	0.039	0.0271	0.00186 J	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.039	0.0997	0.00318 J	0.00349 J	0.00187 J
Nickel	2020-03	mg/L	0.0254	0.0242		0.0357	0.00229 J	0.00197 J	< 0.005	< 0.005	< 0.005	< 0.005	0.0343		< 0.005	0.00266 J	0.00327 J
Nickel	2020-04	mg/L			0.0385									0.0104			
Nickel	2020-08	mg/L	0.00547	0.013	0.0469	0.0266	0.00216 J	< 0.005	< 0.005	< 0.005			0.0346	0.0554	0.00353 J		< 0.005
Nickel	2021-03	mg/L		0.0832			0.00218 J			< 0.005							
Nickel	2021-08	mg/L	0.053	0.0137	0.0716	0.024	0.00228 J	< 0.005	< 0.005	< 0.005			0.0262	0.0522	0.0189		< 0.005
Nickel	2022-03	mg/L		0.397			0.00198 J			< 0.005							
Nickel	2022-08	mg/L	0.00932	0.022	0.0554	0.0236	< 0.005	< 0.005	< 0.005	< 0.005			0.0202	0.0505	0.0187		< 0.005
Nickel	2023-01	mg/L															
Nickel	2023-03	mg/L		0.0285			< 0.005			~~0.00534~~							
Nickel	2023-08	mg/L	0.0118	0.02	0.064	0.0249	< 0.005	< 0.005	< 0.005	0.00207 J			0.0134	0.0168	0.0109		< 0.005
Nickel	2024-03	mg/L		0.0355			< 0.005			0.00201 J							
Nickel	2024-08	mg/L	0.0257	0.0766	0.0471	0.0278	< 0.005	< 0.005	< 0.005	0.00231 J			0.0117	0.0555	0.0103		< 0.005
Nitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Nitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Nitrobenzene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Nitrobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Nitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Nitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Nitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	0.226 J	< 10.0									
Nitrobenzene	2011-09	ug/L					< 10.0										
Nitrobenzene	2012-03	ug/L					< 10.0										
Nitrobenzene	2012-09	ug/L					< 10.0										
Nitrobenzene	2013-03	ug/L					< 11.8										
Nitrobenzene	2013-09	ug/L					< 10.6										
Nitrobenzene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Nitrobenzene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Nitrobenzene	2016-03	ug/L					< 10.9			< 11.2							
Nitrobenzene	2016-06	ug/L															
Nitrobenzene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Nitrobenzene	2023-01	ug/L															
Nitrobenzene	2023-03	ug/L					< 10			< 10							
N-Nitrosodiethylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
N-Nitrosodiethylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
N-Nitrosodiethylamine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
N-Nitrosodiethylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodiethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodiethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
N-Nitrosodiethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
N-Nitrosodiethylamine	2012-09	ug/L		< 10.0													
N-Nitrosodiethylamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
N-Nitrosodiethylamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
N-Nitrosodiethylamine	2016-03	ug/L					< 10.9			< 11.2							
N-Nitrosodiethylamine	2016-06	ug/L															
N-Nitrosodiethylamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
N-Nitrosodiethylamine	2023-01	ug/L															
N-Nitrosodiethylamine	2023-03	ug/L					< 10			< 10							
N-Nitrosodimethylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
N-Nitrosodimethylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodimethylamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
N-Nitrosodimethylamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
N-Nitrosodimethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
N-Nitrosodimethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
N-Nitrosodimethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
N-Nitrosodimethylamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
N-Nitrosodimethylamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
N-Nitrosodimethylamine	2016-03	ug/L			< 11.1	< 11.2												
N-Nitrosodimethylamine	2016-06	ug/L			< 11.4	< 11.4												
N-Nitrosodimethylamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
N-Nitrosodimethylamine	2023-01	ug/L															< 10.9	
N-Nitrosodimethylamine	2023-03	ug/L															< 10.4	
N-Nitrosodi-n-butylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
N-Nitrosodi-n-butylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodi-n-butylamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
N-Nitrosodi-n-butylamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
N-Nitrosodi-n-butylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
N-Nitrosodi-n-butylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
N-Nitrosodi-n-butylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
N-Nitrosodi-n-butylamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
N-Nitrosodi-n-butylamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
N-Nitrosodi-n-butylamine	2016-03	ug/L			< 11.1	< 11.2												
N-Nitrosodi-n-butylamine	2016-06	ug/L			< 11.4	< 11.4												
N-Nitrosodi-n-butylamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
N-Nitrosodi-n-butylamine	2023-01	ug/L															< 10.9	
N-Nitrosodi-n-butylamine	2023-03	ug/L															< 10.4	
N-Nitrosodi-n-propylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
N-Nitrosodi-n-propylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodi-n-propylamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
N-Nitrosodi-n-propylamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
N-Nitrosodi-n-propylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
N-Nitrosodi-n-propylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
N-Nitrosodi-n-propylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
N-Nitrosodi-n-propylamine	2011-09	ug/L																
N-Nitrosodi-n-propylamine	2012-03	ug/L																
N-Nitrosodi-n-propylamine	2012-09	ug/L																
N-Nitrosodi-n-propylamine	2013-03	ug/L																
N-Nitrosodi-n-propylamine	2013-09	ug/L																
N-Nitrosodi-n-propylamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
N-Nitrosodi-n-propylamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
N-Nitrosodi-n-propylamine	2016-03	ug/L			< 11.1	< 11.2												
N-Nitrosodi-n-propylamine	2016-06	ug/L			< 11.4	< 11.4												
N-Nitrosodi-n-propylamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
N-Nitrosodi-n-propylamine	2023-01	ug/L															< 10.9	
N-Nitrosodi-n-propylamine	2023-03	ug/L															< 10.4	
N-Nitrosodiphenylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
N-Nitrosodiphenylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodiphenylamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
N-Nitrosodiphenylamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
N-Nitrosodiphenylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
N-Nitrosodiphenylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
N-Nitrosodiphenylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
N-Nitrosodiphenylamine	2011-09	ug/L																
N-Nitrosodiphenylamine	2012-03	ug/L																
N-Nitrosodiphenylamine	2012-09	ug/L																
N-Nitrosodiphenylamine	2013-03	ug/L																

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
N-Nitrosodimethylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
N-Nitrosodimethylamine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
N-Nitrosodimethylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodimethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodimethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
N-Nitrosodimethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
N-Nitrosodimethylamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
N-Nitrosodimethylamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
N-Nitrosodimethylamine	2016-03	ug/L					< 10.9			< 11.2							
N-Nitrosodimethylamine	2016-06	ug/L															
N-Nitrosodimethylamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
N-Nitrosodimethylamine	2023-01	ug/L															
N-Nitrosodimethylamine	2023-03	ug/L					< 10			< 10							
N-Nitrosodi-n-butylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
N-Nitrosodi-n-butylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
N-Nitrosodi-n-butylamine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
N-Nitrosodi-n-butylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-butylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-butylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
N-Nitrosodi-n-butylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
N-Nitrosodi-n-butylamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
N-Nitrosodi-n-butylamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
N-Nitrosodi-n-butylamine	2016-03	ug/L					< 10.9			< 11.2							
N-Nitrosodi-n-butylamine	2016-06	ug/L															
N-Nitrosodi-n-butylamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
N-Nitrosodi-n-butylamine	2023-01	ug/L															
N-Nitrosodi-n-butylamine	2023-03	ug/L					< 10			< 10							
N-Nitrosodi-n-propylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
N-Nitrosodi-n-propylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
N-Nitrosodi-n-propylamine	2009-07	ug/L	< 10.0	**0.974 J**	< 10	< 10	< 10.0	< 11.4	< 10.0								
N-Nitrosodi-n-propylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-propylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-propylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
N-Nitrosodi-n-propylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
N-Nitrosodi-n-propylamine	2011-09	ug/L		< 10.0			< 10.0										
N-Nitrosodi-n-propylamine	2012-03	ug/L		< 10.0			< 10.0										
N-Nitrosodi-n-propylamine	2012-09	ug/L		< 10.0			< 10.0										
N-Nitrosodi-n-propylamine	2013-03	ug/L		< 10.5			< 11.8										
N-Nitrosodi-n-propylamine	2013-09	ug/L		< 10.1													
N-Nitrosodi-n-propylamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
N-Nitrosodi-n-propylamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
N-Nitrosodi-n-propylamine	2016-03	ug/L					< 10.9			< 11.2							
N-Nitrosodi-n-propylamine	2016-06	ug/L															
N-Nitrosodi-n-propylamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
N-Nitrosodi-n-propylamine	2023-01	ug/L															
N-Nitrosodi-n-propylamine	2023-03	ug/L					< 10			< 10							
N-Nitrosodiphenylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
N-Nitrosodiphenylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
N-Nitrosodiphenylamine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
N-Nitrosodiphenylamine	2009-09	ug/L	< 10.0	**0.557 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodiphenylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosodiphenylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
N-Nitrosodiphenylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
N-Nitrosodiphenylamine	2011-09	ug/L		< 10.0			< 10.0										
N-Nitrosodiphenylamine	2012-03	ug/L		< 10.0			< 10.0										
N-Nitrosodiphenylamine	2012-09	ug/L				< 10.0	< 10.0										
N-Nitrosodiphenylamine	2013-03	ug/L		< 10.5			< 11.8										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
N-Nitrosodiphenylamine	2013-09	ug/L																
N-Nitrosodiphenylamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
N-Nitrosodiphenylamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
N-Nitrosodiphenylamine	2016-03	ug/L			< 11.1	< 11.2												
N-Nitrosodiphenylamine	2016-06	ug/L			< 11.4	< 11.4												
N-Nitrosodiphenylamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
N-Nitrosodiphenylamine	2023-01	ug/L															< 10.9	
N-Nitrosodiphenylamine	2023-03	ug/L															< 10.4	
N-Nitrosomethylethylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
N-Nitrosomethylethylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosomethylethylamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
N-Nitrosomethylethylamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
N-Nitrosomethylethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
N-Nitrosomethylethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
N-Nitrosomethylethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
N-Nitrosomethylethylamine	2012-03	ug/L																
N-Nitrosomethylethylamine	2012-09	ug/L																
N-Nitrosomethylethylamine	2013-03	ug/L																
N-Nitrosomethylethylamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
N-Nitrosomethylethylamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
N-Nitrosomethylethylamine	2016-03	ug/L			< 11.1	< 11.2												
N-Nitrosomethylethylamine	2016-06	ug/L			< 11.4	< 11.4												
N-Nitrosomethylethylamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
N-Nitrosomethylethylamine	2023-01	ug/L															< 10.9	
N-Nitrosomethylethylamine	2023-03	ug/L															< 10.4	
N-Nitrosopiperidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
N-Nitrosopiperidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosopiperidine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
N-Nitrosopiperidine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
N-Nitrosopiperidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
N-Nitrosopiperidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
N-Nitrosopiperidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
N-Nitrosopiperidine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
N-Nitrosopiperidine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
N-Nitrosopiperidine	2016-03	ug/L			< 11.1	< 11.2												
N-Nitrosopiperidine	2016-06	ug/L			< 11.4	< 11.4												
N-Nitrosopiperidine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
N-Nitrosopiperidine	2023-01	ug/L															< 10.9	
N-Nitrosopiperidine	2023-03	ug/L															< 10.4	
N-Nitrosopyrrolidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
N-Nitrosopyrrolidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosopyrrolidine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
N-Nitrosopyrrolidine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
N-Nitrosopyrrolidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
N-Nitrosopyrrolidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
N-Nitrosopyrrolidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
N-Nitrosopyrrolidine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
N-Nitrosopyrrolidine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
N-Nitrosopyrrolidine	2016-03	ug/L			< 11.1	< 11.2												
N-Nitrosopyrrolidine	2016-06	ug/L			< 11.4	< 11.4												
N-Nitrosopyrrolidine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
N-Nitrosopyrrolidine	2023-01	ug/L															< 10.9	
N-Nitrosopyrrolidine	2023-03	ug/L															< 10.4	
o,o,o-Triethylphosphorothioate	2008-08	ug/L	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 33.3	< 30	< 30	< 30	< 30	< 30	< 33.3	< 30
o,o,o-Triethylphosphorothioate	2009-03	ug/L	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
o,o,o-Triethylphosphorothioate	2009-07	ug/L	< 30	< 30.0	< 30.0	< 30		< 30		< 30			< 30.0		< 30	< 30	< 30	< 30
o,o,o-Triethylphosphorothioate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
N-Nitrosodiphenylamine	2013-09	ug/L		< 10.1													
N-Nitrosodiphenylamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
N-Nitrosodiphenylamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
N-Nitrosodiphenylamine	2016-03	ug/L					< 10.9			< 11.2							
N-Nitrosodiphenylamine	2016-06	ug/L															
N-Nitrosodiphenylamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
N-Nitrosodiphenylamine	2023-01	ug/L															
N-Nitrosodiphenylamine	2023-03	ug/L					< 10			< 10							
N-Nitrosomethylethylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
N-Nitrosomethylethylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
N-Nitrosomethylethylamine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
N-Nitrosomethylethylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosomethylethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosomethylethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
N-Nitrosomethylethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
N-Nitrosomethylethylamine	2012-03	ug/L					< 10.0										
N-Nitrosomethylethylamine	2012-09	ug/L					< 10.0										
N-Nitrosomethylethylamine	2013-03	ug/L					< 11.8										
N-Nitrosomethylethylamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
N-Nitrosomethylethylamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
N-Nitrosomethylethylamine	2016-03	ug/L					< 10.9			< 11.2							
N-Nitrosomethylethylamine	2016-06	ug/L															
N-Nitrosomethylethylamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
N-Nitrosomethylethylamine	2023-01	ug/L															
N-Nitrosomethylethylamine	2023-03	ug/L					< 10			< 10							
N-Nitrosopiperidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
N-Nitrosopiperidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
N-Nitrosopiperidine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
N-Nitrosopiperidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosopiperidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosopiperidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
N-Nitrosopiperidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
N-Nitrosopiperidine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
N-Nitrosopiperidine	2015-10	ug/L	< 11.8		< 10.3					< 11							
N-Nitrosopiperidine	2016-03	ug/L					< 10.9			< 11.2							
N-Nitrosopiperidine	2016-06	ug/L															
N-Nitrosopiperidine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
N-Nitrosopiperidine	2023-01	ug/L															
N-Nitrosopiperidine	2023-03	ug/L					< 10			< 10							
N-Nitrosopyrrolidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
N-Nitrosopyrrolidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
N-Nitrosopyrrolidine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
N-Nitrosopyrrolidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosopyrrolidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
N-Nitrosopyrrolidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
N-Nitrosopyrrolidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
N-Nitrosopyrrolidine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
N-Nitrosopyrrolidine	2015-10	ug/L	< 11.8		< 10.3					< 11							
N-Nitrosopyrrolidine	2016-03	ug/L					< 10.9			< 11.2							
N-Nitrosopyrrolidine	2016-06	ug/L															
N-Nitrosopyrrolidine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
N-Nitrosopyrrolidine	2023-01	ug/L															
N-Nitrosopyrrolidine	2023-03	ug/L					< 10			< 10							
o,o,o-Triethylphosphorothioate	2008-08	ug/L	< 30	< 30	< 30	< 30	< 30	< 33.3	< 30								
o,o,o-Triethylphosphorothioate	2009-03	ug/L	< 30	< 30	< 30	< 30	< 30	< 30	< 30								
o,o,o-Triethylphosphorothioate	2009-07	ug/L	< 30.0	< 30	< 30	< 30	< 30.0	< 34.1	< 30.0								
o,o,o-Triethylphosphorothioate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
o,o,o-Triethylphosphorothioate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
o,o,o-Triethylphosphorothioate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
o,o,o-Triethylphosphorothioate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
o,o,o-Triethylphosphorothioate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
o,o,o-Triethylphosphorothioate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
o,o,o-Triethylphosphorothioate	2016-03	ug/L			< 11.1	< 11.2												
o,o,o-Triethylphosphorothioate	2016-06	ug/L			< 11.4	< 11.4												
o,o,o-Triethylphosphorothioate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
o,o,o-Triethylphosphorothioate	2023-01	ug/L															< 10.9	
o,o,o-Triethylphosphorothioate	2023-03	ug/L															< 10.4	
o-Toluidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
o-Toluidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Toluidine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
o-Toluidine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
o-Toluidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
o-Toluidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
o-Toluidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
o-Toluidine	2011-09	ug/L																
o-Toluidine	2012-03	ug/L																
o-Toluidine	2012-09	ug/L																
o-Toluidine	2013-03	ug/L																
o-Toluidine	2013-09	ug/L																
o-Toluidine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
o-Toluidine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
o-Toluidine	2016-03	ug/L			< 11.1	< 11.2												
o-Toluidine	2016-06	ug/L			< 11.4	< 11.4												
o-Toluidine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
o-Toluidine	2023-01	ug/L															< 10.9	
o-Toluidine	2023-03	ug/L															< 10.4	
p-(Dimethylamino)azobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
p-(Dimethylamino)azobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-(Dimethylamino)azobenzene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
p-(Dimethylamino)azobenzene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
p-(Dimethylamino)azobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
p-(Dimethylamino)azobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
p-(Dimethylamino)azobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
p-(Dimethylamino)azobenzene	2012-09	ug/L																
p-(Dimethylamino)azobenzene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
p-(Dimethylamino)azobenzene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
p-(Dimethylamino)azobenzene	2016-03	ug/L			< 11.1	< 11.2												
p-(Dimethylamino)azobenzene	2016-06	ug/L			< 11.4	< 11.4												
p-(Dimethylamino)azobenzene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
p-(Dimethylamino)azobenzene	2023-01	ug/L															< 10.9	
p-(Dimethylamino)azobenzene	2023-03	ug/L															< 10.4	
Parathion	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Parathion	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Parathion	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Parathion	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Parathion	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Parathion	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	**0.191 J**		< 10.0	< 10.0	< 10.0	< 10.0	
Parathion	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Parathion	2011-09	ug/L										< 10.0						
Parathion	2012-03	ug/L										< 10.0						
Parathion	2012-09	ug/L										< 10.0						
Parathion	2013-03	ug/L										< 10.6						
Parathion	2013-09	ug/L										< 10.2						
Parathion	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
o,o,o-Triethylphosphorothioate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
o,o,o-Triethylphosphorothioate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
o,o,o-Triethylphosphorothioate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
o,o,o-Triethylphosphorothioate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
o,o,o-Triethylphosphorothioate	2015-10	ug/L	< 11.8		< 10.3					< 11							
o,o,o-Triethylphosphorothioate	2016-03	ug/L					< 10.9			< 11.2							
o,o,o-Triethylphosphorothioate	2016-06	ug/L															
o,o,o-Triethylphosphorothioate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
o,o,o-Triethylphosphorothioate	2023-01	ug/L															
o,o,o-Triethylphosphorothioate	2023-03	ug/L					< 10			< 10							
o-Toluidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
o-Toluidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
o-Toluidine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
o-Toluidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
o-Toluidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
o-Toluidine	2010-09	ug/L	< 10.0	**0.314 J**	< 10.0	< 10.0	< 10.0										
o-Toluidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
o-Toluidine	2011-09	ug/L		< 10.0			< 10.0										
o-Toluidine	2012-03	ug/L		< 10.0			< 10.0										
o-Toluidine	2012-09	ug/L				< 10.0	< 10.0										
o-Toluidine	2013-03	ug/L		< 10.5			< 11.8										
o-Toluidine	2013-09	ug/L		< 10.1													
o-Toluidine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
o-Toluidine	2015-10	ug/L	< 11.8		< 10.3					< 11							
o-Toluidine	2016-03	ug/L					< 10.9			< 11.2							
o-Toluidine	2016-06	ug/L															
o-Toluidine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
o-Toluidine	2023-01	ug/L															
o-Toluidine	2023-03	ug/L					< 10			< 10							
p-(Dimethylamino)azobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
p-(Dimethylamino)azobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
p-(Dimethylamino)azobenzene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
p-(Dimethylamino)azobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
p-(Dimethylamino)azobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
p-(Dimethylamino)azobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
p-(Dimethylamino)azobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
p-(Dimethylamino)azobenzene	2012-09	ug/L		< 10.0													
p-(Dimethylamino)azobenzene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
p-(Dimethylamino)azobenzene	2015-10	ug/L	< 11.8		< 10.3					< 11							
p-(Dimethylamino)azobenzene	2016-03	ug/L					< 10.9			< 11.2							
p-(Dimethylamino)azobenzene	2016-06	ug/L															
p-(Dimethylamino)azobenzene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
p-(Dimethylamino)azobenzene	2023-01	ug/L															
p-(Dimethylamino)azobenzene	2023-03	ug/L					< 10			< 10							
Parathion	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Parathion	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Parathion	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Parathion	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Parathion	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Parathion	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Parathion	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Parathion	2011-09	ug/L					< 10.0										
Parathion	2012-03	ug/L					< 10.0										
Parathion	2012-09	ug/L					< 10.0										
Parathion	2013-03	ug/L					< 11.8										
Parathion	2013-09	ug/L															
Parathion	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Parathion	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Parathion	2016-03	ug/L			< 11.1	< 11.2												
Parathion	2016-06	ug/L			< 11.4	< 11.4												
Parathion	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Parathion	2023-01	ug/L															< 10.9	
Parathion	2023-03	ug/L															< 10.4	
PCBs - Aroclor 1016	2008-08	ug/L	< 0.8	< 0.909	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.899	< 0.889	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1016	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1016	2010-09	ug/L	< 0.800 UJ	< 0.800	< 0.800			< 0.800	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ		< 0.800	< 0.800	< 0.800	< 0.800	
PCBs - Aroclor 1016	2015-09	ug/L	< 0.889	< 0.889			< 0.889	< 0.941			< 0.889	< 0.879	< 0.889	< 0.889		< 0.899	< 0.889	
PCBs - Aroclor 1016	2015-10	ug/L							< 0.952	< 0.842					< 0.941			< 0.899
PCBs - Aroclor 1016	2016-03	ug/L			< 0.889	< 0.909												
PCBs - Aroclor 1016	2016-06	ug/L			< 0.909	< 0.93												
PCBs - Aroclor 1016	2020-08	ug/L	< 1	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 1.04	< 0.941	< 0.92	< 0.964	< 0.941	< 0.988	< 0.976	< 0.952	< 1
PCBs - Aroclor 1016	2023-01	ug/L															< 0.909	
PCBs - Aroclor 1016	2023-03	ug/L															< 0.833	
PCBs - Aroclor 1221	2008-08	ug/L	< 0.8	< 0.909	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.899	< 0.889	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1221	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1221	2010-09	ug/L	< 0.800 UJ	< 0.800	< 0.800			< 0.800	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ		< 0.800	< 0.800	< 0.800	< 0.800	
PCBs - Aroclor 1221	2015-09	ug/L	< 0.889	< 0.889			< 0.889	< 0.941			< 0.889	< 0.879	< 0.889	< 0.889		< 0.899	< 0.889	
PCBs - Aroclor 1221	2015-10	ug/L							< 0.952	< 0.842					< 0.941			< 0.899
PCBs - Aroclor 1221	2016-03	ug/L			< 0.889	< 0.909												
PCBs - Aroclor 1221	2016-06	ug/L			< 0.909	< 0.93												
PCBs - Aroclor 1221	2020-08	ug/L	< 1	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 1.04	< 0.941	< 0.92	< 0.964	< 0.941	< 0.988	< 0.976	< 0.952	< 1
PCBs - Aroclor 1221	2023-01	ug/L															< 0.909	
PCBs - Aroclor 1221	2023-03	ug/L															< 0.833	
PCBs - Aroclor 1232	2008-08	ug/L	< 0.8	< 0.909	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.899	< 0.889	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1232	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1232	2010-09	ug/L	< 0.800 UJ	< 0.800	< 0.800			< 0.800	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ		< 0.800	< 0.800	< 0.800	< 0.800	
PCBs - Aroclor 1232	2015-09	ug/L	< 0.889	< 0.889			< 0.889	< 0.941			< 0.889	< 0.879	< 0.889	< 0.889		< 0.899	< 0.889	
PCBs - Aroclor 1232	2015-10	ug/L							< 0.952	< 0.842					< 0.941			< 0.899
PCBs - Aroclor 1232	2016-03	ug/L			< 0.889	< 0.909												
PCBs - Aroclor 1232	2016-06	ug/L			< 0.909	< 0.93												
PCBs - Aroclor 1232	2020-08	ug/L	< 1	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 1.04	< 0.941	< 0.92	< 0.964	< 0.941	< 0.988	< 0.976	< 0.952	< 1
PCBs - Aroclor 1232	2023-01	ug/L															< 0.909	
PCBs - Aroclor 1232	2023-03	ug/L															< 0.833	
PCBs - Aroclor 1242	2008-08	ug/L	< 0.8	< 0.909	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.899	< 0.889	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1242	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1242	2010-09	ug/L	< 0.800 UJ	< 0.800	< 0.800			< 0.800	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ		< 0.800	< 0.800	< 0.800	< 0.800	
PCBs - Aroclor 1242	2015-09	ug/L	< 0.889	< 0.889			< 0.889	< 0.941			< 0.889	< 0.879	< 0.889	< 0.889		< 0.899	< 0.889	
PCBs - Aroclor 1242	2015-10	ug/L							< 0.952	< 0.842					< 0.941			< 0.899
PCBs - Aroclor 1242	2016-03	ug/L			< 0.889	< 0.909												
PCBs - Aroclor 1242	2016-06	ug/L			< 0.909	< 0.93												
PCBs - Aroclor 1242	2020-08	ug/L	< 1	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 1.04	< 0.941	< 0.92	< 0.964	< 0.941	< 0.988	< 0.976	< 0.952	< 1
PCBs - Aroclor 1242	2023-01	ug/L															< 0.909	
PCBs - Aroclor 1242	2023-03	ug/L															< 0.833	
PCBs - Aroclor 1248	2008-08	ug/L	< 0.8	< 0.909	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.899	< 0.889	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1248	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1248	2010-09	ug/L	< 0.800 UJ	< 0.800	< 0.800			< 0.800	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ		< 0.800	< 0.800	< 0.800	< 0.800	
PCBs - Aroclor 1248	2015-09	ug/L	< 0.889	< 0.889			< 0.889	< 0.941			< 0.889	< 0.879	< 0.889	< 0.889		< 0.899	< 0.889	
PCBs - Aroclor 1248	2015-10	ug/L							< 0.952	< 0.842					< 0.941			< 0.899
PCBs - Aroclor 1248	2016-03	ug/L			< 0.889	< 0.909												
PCBs - Aroclor 1248	2016-06	ug/L			< 0.909	< 0.93												
PCBs - Aroclor 1248	2020-08	ug/L	< 1	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 1.04	< 0.941	< 0.92	< 0.964	< 0.941	< 0.988	< 0.976	< 0.952	< 1
PCBs - Aroclor 1248	2023-01	ug/L															< 0.909	
PCBs - Aroclor 1248	2023-03	ug/L															< 0.833	
PCBs - Aroclor 1254	2008-08	ug/L	< 0.8	< 0.909	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.899	< 0.889	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Parathion	2015-10	ug/L	< 11.8		< 10.3					< 11							
Parathion	2016-03	ug/L					< 10.9			< 11.2							
Parathion	2016-06	ug/L															
Parathion	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Parathion	2023-01	ug/L															
Parathion	2023-03	ug/L					< 10			< 10							
PCBs - Aroclor 1016	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1016	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1016	2010-09	ug/L	< 0.800	< 0.800	< 0.800 UJ	< 0.800	< 0.800										
PCBs - Aroclor 1016	2015-09	ug/L		< 0.879		< 0.899	< 0.87	< 0.8	< 0.87								
PCBs - Aroclor 1016	2015-10	ug/L	< 0.952		< 0.87					< 0.909							
PCBs - Aroclor 1016	2016-03	ug/L					< 0.889			< 0.879							
PCBs - Aroclor 1016	2016-06	ug/L															
PCBs - Aroclor 1016	2020-08	ug/L	< 0.976	< 0.941	< 0.842	< 0.964	< 1.1	< 0.92	< 0.889	< 0.879							
PCBs - Aroclor 1016	2023-01	ug/L															
PCBs - Aroclor 1016	2023-03	ug/L					< 0.87			< 0.8							
PCBs - Aroclor 1221	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1221	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1221	2010-09	ug/L	< 0.800	< 0.800	< 0.800 UJ	< 0.800	< 0.800										
PCBs - Aroclor 1221	2015-09	ug/L		< 0.879		< 0.899	< 0.87	< 0.8	< 0.87								
PCBs - Aroclor 1221	2015-10	ug/L	< 0.952		< 0.87					< 0.909							
PCBs - Aroclor 1221	2016-03	ug/L					< 0.889			< 0.879							
PCBs - Aroclor 1221	2016-06	ug/L															
PCBs - Aroclor 1221	2020-08	ug/L	< 0.976	< 0.941	< 0.842	< 0.964	< 1.1	< 0.92	< 0.889	< 0.879							
PCBs - Aroclor 1221	2023-01	ug/L															
PCBs - Aroclor 1221	2023-03	ug/L					< 0.87			< 0.8							
PCBs - Aroclor 1232	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1232	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1232	2010-09	ug/L	< 0.800	< 0.800	< 0.800 UJ	< 0.800	< 0.800										
PCBs - Aroclor 1232	2015-09	ug/L		< 0.879		< 0.899	< 0.87	< 0.8	< 0.87								
PCBs - Aroclor 1232	2015-10	ug/L	< 0.952		< 0.87					< 0.909							
PCBs - Aroclor 1232	2016-03	ug/L					< 0.889			< 0.879							
PCBs - Aroclor 1232	2016-06	ug/L															
PCBs - Aroclor 1232	2020-08	ug/L	< 0.976	< 0.941	< 0.842	< 0.964	< 1.1	< 0.92	< 0.889	< 0.879							
PCBs - Aroclor 1232	2023-01	ug/L															
PCBs - Aroclor 1232	2023-03	ug/L					< 0.87			< 0.8							
PCBs - Aroclor 1242	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1242	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1242	2010-09	ug/L	< 0.800	< 0.800	< 0.800 UJ	< 0.800	< 0.800										
PCBs - Aroclor 1242	2015-09	ug/L		< 0.879		< 0.899	< 0.87	< 0.8	< 0.87								
PCBs - Aroclor 1242	2015-10	ug/L	< 0.952		< 0.87					< 0.909							
PCBs - Aroclor 1242	2016-03	ug/L					< 0.889			< 0.879							
PCBs - Aroclor 1242	2016-06	ug/L															
PCBs - Aroclor 1242	2020-08	ug/L	< 0.976	< 0.941	< 0.842	< 0.964	< 1.1	< 0.92	< 0.889	< 0.879							
PCBs - Aroclor 1242	2023-01	ug/L															
PCBs - Aroclor 1242	2023-03	ug/L					< 0.87			< 0.8							
PCBs - Aroclor 1248	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1248	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1248	2010-09	ug/L	< 0.800	< 0.800	< 0.800 UJ	< 0.800	< 0.800										
PCBs - Aroclor 1248	2015-09	ug/L		< 0.879		< 0.899	< 0.87	< 0.8	< 0.87								
PCBs - Aroclor 1248	2015-10	ug/L	< 0.952		< 0.87					< 0.909							
PCBs - Aroclor 1248	2016-03	ug/L					< 0.889			< 0.879							
PCBs - Aroclor 1248	2016-06	ug/L															
PCBs - Aroclor 1248	2020-08	ug/L	< 0.976	< 0.941	< 0.842	< 0.964	< 1.1	< 0.92	< 0.889	< 0.879							
PCBs - Aroclor 1248	2023-01	ug/L															
PCBs - Aroclor 1248	2023-03	ug/L					< 0.87			< 0.8							
PCBs - Aroclor 1254	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
PCBs - Aroclor 1254	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1254	2010-09	ug/L	< 0.800 UJ	< 0.800	< 0.800			< 0.800	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ		< 0.800	< 0.800	< 0.800	< 0.800	
PCBs - Aroclor 1254	2015-09	ug/L	< 0.889	< 0.889			< 0.889	< 0.941			< 0.889	< 0.879	< 0.889	< 0.889		< 0.899	< 0.889	
PCBs - Aroclor 1254	2015-10	ug/L							< 0.952	< 0.842					< 0.941			< 0.899
PCBs - Aroclor 1254	2016-03	ug/L			< 0.889	< 0.909												
PCBs - Aroclor 1254	2016-06	ug/L			< 0.909	< 0.93												
PCBs - Aroclor 1254	2020-08	ug/L	< 1	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 1.04	< 0.941	< 0.92	< 0.964	< 0.941	< 0.988	< 0.976	< 0.952	< 1
PCBs - Aroclor 1254	2023-01	ug/L															< 0.909	
PCBs - Aroclor 1254	2023-03	ug/L															< 0.833	
PCBs - Aroclor 1260	2008-08	ug/L	< 0.8	< 0.909	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.899	< 0.889	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1260	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1260	2010-09	ug/L	< 0.800 UJ	< 0.800	< 0.800			< 0.800	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ	< 0.800 UJ		< 0.800	< 0.800	< 0.800	< 0.800	
PCBs - Aroclor 1260	2015-09	ug/L	< 0.889	< 0.889			< 0.889	< 0.941			< 0.889	< 0.879	< 0.889	< 0.889		< 0.899	< 0.889	
PCBs - Aroclor 1260	2015-10	ug/L							< 0.952	< 0.842					< 0.941			< 0.899
PCBs - Aroclor 1260	2016-03	ug/L			< 0.889	< 0.909												
PCBs - Aroclor 1260	2016-06	ug/L			< 0.909	< 0.93												
PCBs - Aroclor 1260	2020-08	ug/L	< 1	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 1.04	< 0.941	< 0.92	< 0.964	< 0.941	< 0.988	< 0.976	< 0.952	< 1
PCBs - Aroclor 1260	2023-01	ug/L															< 0.909	
PCBs - Aroclor 1260	2023-03	ug/L															< 0.833	
Pentachlorobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Pentachlorobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachlorobenzene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Pentachlorobenzene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Pentachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Pentachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Pentachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Pentachlorobenzene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Pentachlorobenzene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Pentachlorobenzene	2016-03	ug/L			< 11.1	< 11.2												
Pentachlorobenzene	2016-06	ug/L			< 11.4	< 11.4												
Pentachlorobenzene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Pentachlorobenzene	2023-01	ug/L															< 10.9	
Pentachlorobenzene	2023-03	ug/L															< 10.4	
Pentachloronitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Pentachloronitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachloronitrobenzene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Pentachloronitrobenzene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Pentachloronitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Pentachloronitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Pentachloronitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Pentachloronitrobenzene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Pentachloronitrobenzene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Pentachloronitrobenzene	2016-03	ug/L			< 11.1	< 11.2												
Pentachloronitrobenzene	2016-06	ug/L			< 11.4	< 11.4												
Pentachloronitrobenzene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Pentachloronitrobenzene	2023-01	ug/L															< 10.9	
Pentachloronitrobenzene	2023-03	ug/L															< 10.4	
Pentachlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Pentachlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachlorophenol	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Pentachlorophenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Pentachlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Pentachlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	**0.247 J**	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Pentachlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Pentachlorophenol	2011-09	ug/L									< 10.0							
Pentachlorophenol	2012-03	ug/L									< 10.0							
Pentachlorophenol	2012-09	ug/L									< 10.0							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
PCBs - Aroclor 1254	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1254	2010-09	ug/L	< 0.800	< 0.800	< 0.800 UJ	< 0.800	< 0.800										
PCBs - Aroclor 1254	2015-09	ug/L		< 0.879		< 0.899	< 0.87	< 0.8	< 0.87								
PCBs - Aroclor 1254	2015-10	ug/L	< 0.952		< 0.87					< 0.909							
PCBs - Aroclor 1254	2016-03	ug/L					< 0.889			< 0.879							
PCBs - Aroclor 1254	2016-06	ug/L															
PCBs - Aroclor 1254	2020-08	ug/L	< 0.976	< 0.941	< 0.842	< 0.964	< 1.1	< 0.92	< 0.889	< 0.879							
PCBs - Aroclor 1254	2023-01	ug/L															
PCBs - Aroclor 1254	2023-03	ug/L					< 0.87			< 0.8							
PCBs - Aroclor 1260	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1260	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1260	2010-09	ug/L	< 0.800	< 0.800	< 0.800 UJ	< 0.800	< 0.800										
PCBs - Aroclor 1260	2015-09	ug/L		< 0.879		< 0.899	< 0.87	< 0.8	< 0.87								
PCBs - Aroclor 1260	2015-10	ug/L	< 0.952		< 0.87					< 0.909							
PCBs - Aroclor 1260	2016-03	ug/L					< 0.889			< 0.879							
PCBs - Aroclor 1260	2016-06	ug/L															
PCBs - Aroclor 1260	2020-08	ug/L	< 0.976	< 0.941	< 0.842	< 0.964	< 1.1	< 0.92	< 0.889	< 0.879							
PCBs - Aroclor 1260	2023-01	ug/L															
PCBs - Aroclor 1260	2023-03	ug/L					< 0.87			< 0.8							
Pentachlorobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Pentachlorobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Pentachlorobenzene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Pentachlorobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pentachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pentachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Pentachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Pentachlorobenzene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Pentachlorobenzene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Pentachlorobenzene	2016-03	ug/L					< 10.9			< 11.2							
Pentachlorobenzene	2016-06	ug/L															
Pentachlorobenzene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Pentachlorobenzene	2023-01	ug/L															
Pentachlorobenzene	2023-03	ug/L					< 10			< 10							
Pentachloronitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Pentachloronitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Pentachloronitrobenzene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Pentachloronitrobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pentachloronitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pentachloronitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Pentachloronitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Pentachloronitrobenzene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Pentachloronitrobenzene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Pentachloronitrobenzene	2016-03	ug/L					< 10.9			< 11.2							
Pentachloronitrobenzene	2016-06	ug/L															
Pentachloronitrobenzene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Pentachloronitrobenzene	2023-01	ug/L															
Pentachloronitrobenzene	2023-03	ug/L					< 10			< 10							
Pentachlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Pentachlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Pentachlorophenol	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Pentachlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pentachlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pentachlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Pentachlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Pentachlorophenol	2011-09	ug/L					< 10.0										
Pentachlorophenol	2012-03	ug/L					< 10.0										
Pentachlorophenol	2012-09	ug/L					< 10.0										

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Pentachlorophenol	2013-03	ug/L									< 10.6							
Pentachlorophenol	2013-09	ug/L									< 10.6							
Pentachlorophenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Pentachlorophenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Pentachlorophenol	2016-03	ug/L			< 11.1	< 11.2												
Pentachlorophenol	2016-06	ug/L			< 11.4	< 11.4												
Pentachlorophenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Pentachlorophenol	2023-01	ug/L															< 10.9	
Pentachlorophenol	2023-03	ug/L															< 10.4	
Phenacetin	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Phenacetin	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenacetin	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Phenacetin	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Phenacetin	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Phenacetin	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Phenacetin	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Phenacetin	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Phenacetin	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Phenacetin	2016-03	ug/L			< 11.1	< 11.2												
Phenacetin	2016-06	ug/L			< 11.4	< 11.4												
Phenacetin	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Phenacetin	2023-01	ug/L															< 10.9	
Phenacetin	2023-03	ug/L															< 10.4	
Phenanthrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Phenanthrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Phenanthrene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Phenanthrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Phenanthrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Phenanthrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Phenanthrene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Phenanthrene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Phenanthrene	2016-03	ug/L			< 11.1	< 11.2												
Phenanthrene	2016-06	ug/L			< 11.4	< 11.4												
Phenanthrene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Phenanthrene	2023-01	ug/L															< 10.9	
Phenanthrene	2023-03	ug/L															< 10.4	
Phenol	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20
Phenol	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Phenol	2009-07	ug/L	< 20	< 20.0	< 20.0	< 20		< 20		< 20			< 20.0		< 20	< 20	< 20	< 20
Phenol	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Phenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Phenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Phenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Phenol	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Phenol	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Phenol	2016-03	ug/L			< 11.1	< 11.2												
Phenol	2016-06	ug/L			< 11.4	< 11.4												
Phenol	2016-08	ug/L																
Phenol	2017-03	ug/L																
Phenol	2017-08	ug/L																
Phenol	2018-03	ug/L																
Phenol	2018-08	ug/L																
Phenol	2019-03	ug/L																
Phenol	2019-08	ug/L																< 10.8
Phenol	2020-03	ug/L																
Phenol	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Pentachlorophenol	2013-03	ug/L					< 11.8										
Pentachlorophenol	2013-09	ug/L															
Pentachlorophenol	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Pentachlorophenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
Pentachlorophenol	2016-03	ug/L					< 10.9			< 11.2							
Pentachlorophenol	2016-06	ug/L															
Pentachlorophenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Pentachlorophenol	2023-01	ug/L															
Pentachlorophenol	2023-03	ug/L					< 10			< 10							
Phenacetin	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Phenacetin	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Phenacetin	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Phenacetin	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Phenacetin	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Phenacetin	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Phenacetin	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Phenacetin	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Phenacetin	2015-10	ug/L	< 11.8		< 10.3					< 11							
Phenacetin	2016-03	ug/L					< 10.9			< 11.2							
Phenacetin	2016-06	ug/L															
Phenacetin	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Phenacetin	2023-01	ug/L															
Phenacetin	2023-03	ug/L					< 10			< 10							
Phenanthrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Phenanthrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Phenanthrene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Phenanthrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Phenanthrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Phenanthrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Phenanthrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Phenanthrene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Phenanthrene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Phenanthrene	2016-03	ug/L					< 10.9			< 11.2							
Phenanthrene	2016-06	ug/L															
Phenanthrene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Phenanthrene	2023-01	ug/L															
Phenanthrene	2023-03	ug/L					< 10			< 10							
Phenol	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 22.2	< 20								
Phenol	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20								
Phenol	2009-07	ug/L	< 20.0	< 20	< 20	< 20	< 20.0	< 22.7	< 20.0								
Phenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Phenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Phenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Phenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Phenol	2015-09	ug/L		< 11		< 11.2	**23.6**	< 11.2	< 11.2								
Phenol	2015-10	ug/L	< 11.8		< 10.3					< 11							
Phenol	2016-03	ug/L					< 10.9			< 11.2							
Phenol	2016-06	ug/L															
Phenol	2016-08	ug/L					< 11.8			< 10.6							
Phenol	2017-03	ug/L					< 10.5			< 10.9							
Phenol	2017-08	ug/L					< 10.6			< 10.4							
Phenol	2018-03	ug/L					< 12.5			< 12.3							
Phenol	2018-08	ug/L					< 13.2			< 10.6							
Phenol	2019-03	ug/L					< 13			< 11.1							
Phenol	2019-08	ug/L					< 10.8			< 10.9							
Phenol	2020-03	ug/L					< 13.7			< 12.5							
Phenol	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Phenol	2021-03	ug/L																
Phenol	2021-08	ug/L																
Phenol	2022-08	ug/L																
Phenol	2023-01	ug/L															< 10.9	
Phenol	2023-03	ug/L															< 10.4	
Phenol	2023-08	ug/L																
Phenol	2024-08	ug/L																
Phorate	2008-08	ug/L	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 66.7	< 60	< 60	< 60	< 60	< 60	< 66.7	< 60
Phorate	2009-03	ug/L	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Phorate	2009-07	ug/L	< 60	< 60.0	< 60.0	< 60		< 60		< 60			< 60.0		< 60	< 60	< 60	< 60
Phorate	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Phorate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Phorate	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Phorate	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Phorate	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Phorate	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Phorate	2016-03	ug/L			< 11.1	< 11.2												
Phorate	2016-06	ug/L			< 11.4	< 11.4												
Phorate	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Phorate	2023-01	ug/L															< 10.9	
Phorate	2023-03	ug/L															< 10.4	
p-Phenylenediamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
p-Phenylenediamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-Phenylenediamine	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
p-Phenylenediamine	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
p-Phenylenediamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
p-Phenylenediamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0 R			< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R		< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R	
p-Phenylenediamine	2011-03	ug/L	< 10.0 UJ	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
p-Phenylenediamine	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
p-Phenylenediamine	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
p-Phenylenediamine	2016-03	ug/L			< 11.1	< 11.2												
p-Phenylenediamine	2016-06	ug/L			< 11.4	< 11.4												
p-Phenylenediamine	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
p-Phenylenediamine	2023-01	ug/L															~~< 10.9 R~~	
p-Phenylenediamine	2023-03	ug/L															< 10.4	
Pronamide	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Pronamide	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pronamide	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Pronamide	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Pronamide	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Pronamide	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Pronamide	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Pronamide	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Pronamide	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Pronamide	2016-03	ug/L			< 11.1	< 11.2												
Pronamide	2016-06	ug/L			< 11.4	< 11.4												
Pronamide	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Pronamide	2023-01	ug/L															< 10.9	
Pronamide	2023-03	ug/L															< 10.4	
Propionitrile	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Propionitrile	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Propionitrile	2009-07	ug/L	< 10	< 10.0		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
Propionitrile	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
Propionitrile	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Propionitrile	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Propionitrile	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Propionitrile	2012-09	ug/L														< 10.0		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Phenol	2021-03	ug/L					< 11.1			< 12.2							
Phenol	2021-08	ug/L					< 12.5			< 10.8							
Phenol	2022-08	ug/L					~~< 10.4 R~~			~~< 10 R~~							
Phenol	2023-01	ug/L															
Phenol	2023-03	ug/L					< 10			< 10							
Phenol	2023-08	ug/L					< 9.62			< 11.4							
Phenol	2024-08	ug/L					< 10			< 10.9							
Phorate	2008-08	ug/L	< 60	< 60	< 60	< 60	< 60	< 66.7	< 60								
Phorate	2009-03	ug/L	< 60	< 60	< 60	< 60	< 60	< 60	< 60								
Phorate	2009-07	ug/L	< 60.0	< 60	< 60	< 60	< 60.0	< 68.2	< 60.0								
Phorate	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Phorate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Phorate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Phorate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Phorate	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Phorate	2015-10	ug/L	< 11.8		< 10.3					< 11							
Phorate	2016-03	ug/L					< 10.9			< 11.2							
Phorate	2016-06	ug/L															
Phorate	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Phorate	2023-01	ug/L															
Phorate	2023-03	ug/L					< 10			< 10							
p-Phenylenediamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
p-Phenylenediamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
p-Phenylenediamine	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
p-Phenylenediamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
p-Phenylenediamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
p-Phenylenediamine	2010-09	ug/L	< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R										
p-Phenylenediamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
p-Phenylenediamine	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
p-Phenylenediamine	2015-10	ug/L	< 11.8		< 10.3					< 11							
p-Phenylenediamine	2016-03	ug/L					< 10.9			< 11.2							
p-Phenylenediamine	2016-06	ug/L															
p-Phenylenediamine	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
p-Phenylenediamine	2023-01	ug/L															
p-Phenylenediamine	2023-03	ug/L					< 10			< 10							
Pronamide	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Pronamide	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Pronamide	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Pronamide	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pronamide	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pronamide	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Pronamide	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Pronamide	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Pronamide	2015-10	ug/L	< 11.8		< 10.3					< 11							
Pronamide	2016-03	ug/L					< 10.9			< 11.2							
Pronamide	2016-06	ug/L															
Pronamide	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Pronamide	2023-01	ug/L															
Pronamide	2023-03	ug/L					< 10			< 10							
Propionitrile	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Propionitrile	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Propionitrile	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
Propionitrile	2009-09	ug/L	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0										
Propionitrile	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Propionitrile	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Propionitrile	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Propionitrile	2012-09	ug/L				< 10.0											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Propionitrile	2015-09	ug/L	< 10	< 10			< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
Propionitrile	2015-10	ug/L							< 10	< 10					< 10			< 10
Propionitrile	2016-03	ug/L			< 10	< 10												
Propionitrile	2016-06	ug/L			< 10	< 10												
Propionitrile	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Propionitrile	2023-01	ug/L															< 10	
Propionitrile	2023-03	ug/L															< 10	
Pyrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Pyrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Pyrene	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Pyrene	2010-09	ug/L	< 10.0	< 10.0	**0.230 J**			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Pyrene	2012-03	ug/L			< 10.0													
Pyrene	2012-09	ug/L			< 10.0													
Pyrene	2013-03	ug/L																
Pyrene	2013-05	ug/L			< 11.2													
Pyrene	2013-09	ug/L			< 10.2													
Pyrene	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Pyrene	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Pyrene	2016-03	ug/L			< 11.1	< 11.2												
Pyrene	2016-06	ug/L			< 11.4	< 11.4												
Pyrene	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Pyrene	2023-01	ug/L															< 10.9	
Pyrene	2023-03	ug/L															< 10.4	
Safrole	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Safrole	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Safrole	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Safrole	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Safrole	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Safrole	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Safrole	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Safrole	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Safrole	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Safrole	2016-03	ug/L			< 11.1	< 11.2												
Safrole	2016-06	ug/L			< 11.4	< 11.4												
Safrole	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Safrole	2023-01	ug/L															< 10.9	
Safrole	2023-03	ug/L															< 10.4	
Selenium	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	2009-09	mg/L	< 0.005	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2010-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2010-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2011-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2011-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2012-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2012-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	**0.0124**	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2013-03	mg/L	< 0.00500	< 0.005		< 0.00500	< 0.00500		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00500	< 0.00500	< 0.005	< 0.005
Selenium	2013-05	mg/L			< 0.00500			< 0.00500										
Selenium	2013-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	**0.00198 J**	< 0.00500	< 0.00500	**0.00216 J**	**0.00192 J**	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2013-11	mg/L																
Selenium	2014-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	**0.00110 J**	**0.000843 J**	**0.000727 J**	< 0.00500	**0.000681 J**	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2014-06	mg/L																
Selenium	2014-09	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Propionitrile	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
Propionitrile	2015-10	ug/L	< 10		< 10					< 10							
Propionitrile	2016-03	ug/L					< 10			< 10							
Propionitrile	2016-06	ug/L															
Propionitrile	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Propionitrile	2023-01	ug/L															
Propionitrile	2023-03	ug/L					< 10			< 10							
Pyrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Pyrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Pyrene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Pyrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Pyrene	2012-03	ug/L					< 10.0										
Pyrene	2012-09	ug/L					< 10.0										
Pyrene	2013-03	ug/L					< 11.8										
Pyrene	2013-05	ug/L															
Pyrene	2013-09	ug/L															
Pyrene	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Pyrene	2015-10	ug/L	< 11.8		< 10.3					< 11							
Pyrene	2016-03	ug/L					< 10.9			< 11.2							
Pyrene	2016-06	ug/L															
Pyrene	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Pyrene	2023-01	ug/L															
Pyrene	2023-03	ug/L					< 10			< 10							
Safrole	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Safrole	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Safrole	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Safrole	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Safrole	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Safrole	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0										
Safrole	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Safrole	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Safrole	2015-10	ug/L	< 11.8		< 10.3					< 11							
Safrole	2016-03	ug/L					< 10.9			< 11.2							
Safrole	2016-06	ug/L															
Safrole	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Safrole	2023-01	ug/L															
Safrole	2023-03	ug/L					< 10			< 10							
Selenium	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Selenium	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Selenium	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Selenium	2009-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500									
Selenium	2010-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500								
Selenium	2010-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500								
Selenium	2011-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500								
Selenium	2011-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500								
Selenium	2012-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500								
Selenium	2012-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500								
Selenium	2013-03	mg/L	< 0.005	< 0.005	< 0.00500		< 0.00500	< 0.005	< 0.005								
Selenium	2013-05	mg/L															
Selenium	2013-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	~~< 0.00500~~	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500		
Selenium	2013-11	mg/L								~~< 0.00500~~	**0.000637 J**	**0.00116 J**	< 0.00500	< 0.00500	**0.00143 J**		
Selenium	2014-03	mg/L	< 0.00500	< 0.00500	< 0.00500	**0.00133 J**	< 0.00500	< 0.00500	< 0.00500	**~~0.000864 J~~**	**0.00137 J**	**0.00161 J**	< 0.00500	< 0.00500	**0.00289 J**		
Selenium	2014-06	mg/L								~~< 0.00500 J~~	< 0.00500 J	< 0.00500 J	< 0.00500 J	< 0.00500 J	< 0.00500 J		
Selenium	2014-09	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	~~< 0.005~~	< 0.005	< 0.005	< 0.005	< 0.005	**0.0064**		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Selenium	2015-03	mg/L	< 0.005	< 0.005	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.005	< 0.00500
Selenium	2015-09	mg/L	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	
Selenium	2015-10	mg/L			< 0.005				< 0.005	< 0.005					< 0.005			< 0.005
Selenium	2016-03	mg/L	< 0.005	< 0.005	< 0.005	**0.000721 J**	**0.00198 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2016-06	mg/L			< 0.005	**0.00106 J**												
Selenium	2016-08	mg/L	< 0.005	< 0.005	< 0.005	**0.000697 J**	**0.00101 J**	< 0.005	**0.00198 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00336 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2017-11	mg/L																
Selenium	2018-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00153 J**	< 0.005
Selenium	2018-06	mg/L																
Selenium	2018-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00112 J**		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2018-09	mg/L					**0.00141 J**						< 0.005	< 0.005				
Selenium	2018-11	mg/L																
Selenium	2019-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00224 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00125 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2019-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00122 J**	**0.00483 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2020-03	mg/L	< 0.005	< 0.005	< 0.005			< 0.005		< 0.005	< 0.02	< 0.005	**0.0017 J**	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2020-04	mg/L				< 0.005	**0.00495 J**		< 0.005									
Selenium	2020-08	mg/L	**0.00107 J**	< 0.005	< 0.005	< 0.005	**0.0111**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2021-03	mg/L							< 0.005	< 0.005	< 0.005	< 0.005						
Selenium	2021-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00134 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00119 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2022-03	mg/L							< 0.005	< 0.02	< 0.005	< 0.005						
Selenium	2022-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2023-01	mg/L															< 0.005	
Selenium	2023-03	mg/L							< 0.005	< 0.005	**0.00226 J**	< 0.005					< 0.005	
Selenium	2023-08	mg/L	**0.00154 J**	< 0.005	< 0.005	< 0.005	**0.00204 J**		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2024-03	mg/L							< 0.005	< 0.005	< 0.005	< 0.005						
Selenium	2024-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.0172**		< 0.005	< 0.005	< 0.005	< 0.005	**0.00141 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver	2009-09	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Silver	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2013-03	mg/L	< 0.0200	< 0.02		< 0.0200	< 0.0200		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.02	< 0.02
Silver	2013-05	mg/L			< 0.0200			< 0.0200										
Silver	2013-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2013-11	mg/L																
Silver	2014-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2014-06	mg/L																
Silver	2014-09	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2015-03	mg/L	< 0.001	< 0.001 J	**0.0000530 J**	< 0.00100	**0.0000530 J**	**0.0000830 J**	< 0.00100	< 0.00100	< 0.001	< 0.001 J	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.001	< 0.00100
Silver	2015-09	mg/L	< 0.001 J	< 0.001		< 0.001 J	< 0.001 J	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	
Silver	2015-10	mg/L			< 0.001				< 0.001 J	< 0.001					< 0.001			< 0.001
Silver	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	**0.000165 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2016-06	mg/L			< 0.001	< 0.001												
Silver	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000802 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2017-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2017-11	mg/L																
Silver	2018-03	mg/L	**0.000184 J**	**0.000198 J**	< 0.001	< 0.001	**0.000157 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000146 J**	< 0.001	< 0.001
Silver	2018-06	mg/L																
Silver	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	**0.000336 J**			< 0.001	< 0.001	< 0.001	< 0.001

Table 14
Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Selenium	2015-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.005	< 0.00500	**0.00470 J**	< 0.00500	< 0.00500	< 0.00500	**0.00410 J**		
Selenium	2015-09	mg/L		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005								
Selenium	2015-10	mg/L	< 0.005		< 0.005					< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00404 J**		
Selenium	2016-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.000872 J**	< 0.005	< 0.005	**0.00169 J**	**0.00343 J**	**0.00255 J**	< 0.005	< 0.005	**0.00318 J**		
Selenium	2016-06	mg/L															
Selenium	2016-08	mg/L	< 0.005	< 0.005	< 0.005	**0.000672 J**	< 0.005	< 0.005	< 0.005	**0.00126 J**	**0.00269 J**	**0.00219 J**	**0.00067 J**	< 0.005	**0.00283 J**		
Selenium	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00191 J**	< 0.005	< 0.005	**0.00103 J**	**0.00364 J**	**0.00392 J**	< 0.005	< 0.005	< 0.005		
Selenium	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00289 J**	**0.00286 J**	< 0.005	< 0.005	< 0.005		
Selenium	2017-11	mg/L														**0.00427 J**	**0.0023 J**
Selenium	2018-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.000961 J**	< 0.005	< 0.005	**0.00265 J**	**0.00456 J**	< 0.005	< 0.005	< 0.005	**0.00198 J**	**0.00294 J**	**0.00239 J**
Selenium	2018-06	mg/L														**0.000906 J**	**0.00555**
Selenium	2018-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	~~**0.00202 J**~~	< 0.005	< 0.005	**0.00208 J**		< 0.005	**0.000974 J**	< 0.005			
Selenium	2018-09	mg/L													**0.00341 J**	**0.00165 J**	**0.00728**
Selenium	2018-11	mg/L														**0.00225 J**	**0.00121 J**
Selenium	2019-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00141 J**	< 0.005	< 0.005	**0.00156 J**		< 0.005	< 0.005	< 0.005	**0.0027 J**	< 0.005	**0.00367 J**
Selenium	2019-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00428 J**	**0.00135 J**	< 0.005	< 0.005	**0.00112 J**	**0.00264 J**	**0.00451 J**	< 0.005	< 0.005	< 0.005	**0.00332 J**	**0.00387 J**
Selenium	2020-03	mg/L	< 0.005	< 0.005		< 0.005	**0.00132 J**	< 0.005	< 0.005	**0.0021 J**	**0.00298 J**	**0.00354 J**	< 0.005		**0.00227 J**	**0.00129 J**	**0.0128**
Selenium	2020-04	mg/L			< 0.005									< 0.005			
Selenium	2020-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00524**	**0.00152 J**	< 0.005	< 0.005	**0.00145 J**			< 0.005	< 0.005	**0.00272 J**		**0.0068**
Selenium	2021-03	mg/L		< 0.005			**0.00116 J**			**0.00251 J**							
Selenium	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00127 J**	< 0.005	< 0.005	**0.00178 J**			< 0.005	< 0.005	**0.00166 J**		**0.00264 J**
Selenium	2022-03	mg/L		< 0.02			**0.00111 J**			**0.00187 J**							
Selenium	2022-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00124 J**	< 0.005	< 0.005	**0.0025 J**			**0.00112 J**	< 0.005	< 0.005		**0.0195**
Selenium	2023-01	mg/L															
Selenium	2023-03	mg/L		< 0.005			**0.00104 J**			~~**0.00137 J**~~							
Selenium	2023-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00289 J**			**0.00285 J**	< 0.005	**0.00216 J**		**0.0034 J**
Selenium	2024-03	mg/L		< 0.005			< 0.005			**0.00324 J**							
Selenium	2024-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00683**	< 0.005	< 0.005	< 0.005	**0.00259 J**			**0.00315 J**	< 0.005	**0.00147 J**		**0.00822**
Silver	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Silver	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Silver	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Silver	2009-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200									
Silver	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Silver	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Silver	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Silver	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Silver	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Silver	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200								
Silver	2013-03	mg/L	< 0.02	< 0.02	< 0.0200		< 0.0200	< 0.02	< 0.02								
Silver	2013-05	mg/L															
Silver	2013-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Silver	2013-11	mg/L								~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Silver	2014-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Silver	2014-06	mg/L								~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Silver	2014-09	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	~~< 0.001~~	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Silver	2015-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.001	< 0.001 J	< 0.001	**0.0000720 J**	< 0.00100	< 0.00100	**0.0000800 J**	< 0.00100	< 0.00100		
Silver	2015-09	mg/L		< 0.001		< 0.001	**0.000125 J**	< 0.001	< 0.001								
Silver	2015-10	mg/L	< 0.001		< 0.001					< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Silver	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000175 J**	< 0.001	< 0.001	< 0.001		
Silver	2016-06	mg/L															
Silver	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Silver	2017-03	mg/L	**0.000145 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Silver	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Silver	2017-11	mg/L														< 0.001	< 0.001
Silver	2018-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000194 J**	**0.000211 J**
Silver	2018-06	mg/L														< 0.001	< 0.001
Silver	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001			

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Silver	2018-09	mg/L					< 0.001						< 0.001	< 0.001				
Silver	2018-11	mg/L																
Silver	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2020-03	mg/L	< 0.001	< 0.001	< 0.001			< 0.001		< 0.001	< 0.004	< 0.001	< 0.001	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2020-04	mg/L				< 0.001	< 0.001		< 0.001									
Silver	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2021-03	mg/L							< 0.001	< 0.001	< 0.001	< 0.001						
Silver	2021-08	mg/L	< 0.001	< 0.001	**0.00121**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.00154**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2022-03	mg/L							< 0.001	< 0.004	< 0.001	< 0.001						
Silver	2022-08	mg/L	**0.00117**	< 0.001	< 0.001	**0.00105 J+**	**0.00105 J+**		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2023-01	mg/L															< 0.001	
Silver	2023-03	mg/L							< 0.001	< 0.001	**0.00159**	< 0.001					< 0.001	
Silver	2023-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2024-03	mg/L							< 0.001	< 0.001	< 0.001	< 0.001						
Silver	2024-08	mg/L	**0.000705 J**	**0.000691 J**	< 0.001	< 0.001	**0.000991 J**		< 0.001	< 0.001	< 0.001	< 0.001	**0.000893 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Styrene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Styrene	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 1.00
Styrene	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 1.00	< 1.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 4.00	< 4.00	< 1.00
Styrene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
Styrene	2013-05	ug/L			< 1.00			< 1.00										
Styrene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2013-11	ug/L																
Styrene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2014-06	ug/L																
Styrene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2015-03	ug/L	< 1	**0.182 J**	**0.177 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	**0.282 J**	< 1.00
Styrene	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Styrene	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
Styrene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2016-06	ug/L			< 1	< 1												
Styrene	2016-08	ug/L	< 1	< 1	**0.116 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2017-11	ug/L																
Styrene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2018-06	ug/L																
Styrene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Styrene	2018-09	ug/L					< 1						< 1	< 1				
Styrene	2018-11	ug/L																
Styrene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2020-04	ug/L				< 1	< 1		< 1									
Styrene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2021-03	ug/L							< 1	< 1	< 1	< 1						
Styrene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2022-03	ug/L							< 1	< 1	< 1	< 1						
Styrene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2023-01	ug/L															< 1	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Silver	2018-09	mg/L													< 0.001	< 0.001	< 0.001
Silver	2018-11	mg/L														< 0.001	< 0.001
Silver	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2020-03	mg/L	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001
Silver	2020-04	mg/L			< 0.001									< 0.001			
Silver	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Silver	2021-03	mg/L		< 0.001			< 0.001			< 0.001							
Silver	2021-08	mg/L	< 0.001	**0.00073 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Silver	2022-03	mg/L		< 0.004			**0.000698 J**			< 0.001							
Silver	2022-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Silver	2023-01	mg/L															
Silver	2023-03	mg/L		< 0.001			< 0.001			< 0.001							
Silver	2023-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Silver	2024-03	mg/L		< 0.001			< 0.001			< 0.001							
Silver	2024-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Styrene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Styrene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Styrene	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Styrene	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Styrene	2010-03	ug/L	< 1.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 2.00								
Styrene	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 1.00	< 1.00								
Styrene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Styrene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Styrene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Styrene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Styrene	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
Styrene	2013-05	ug/L															
Styrene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Styrene	2015-03	ug/L	< 1.00	< 1.00	**0.114 J**	< 1.00	< 1	**0.118 J**	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
Styrene	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
Styrene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Styrene	2016-06	ug/L															
Styrene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Styrene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Styrene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Styrene	2017-11	ug/L														< 1	< 1
Styrene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2018-06	ug/L														< 1	< 1
Styrene	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
Styrene	2018-09	ug/L													< 1	< 1	< 1
Styrene	2018-11	ug/L														< 1	< 1
Styrene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Styrene	2020-04	ug/L			< 1									< 1			
Styrene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Styrene	2021-03	ug/L		< 1			< 1			< 1							
Styrene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Styrene	2022-03	ug/L		< 1			< 1			< 1							
Styrene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Styrene	2023-01	ug/L															

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Styrene	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
Styrene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2024-03	ug/L							< 1	< 1	< 1	< 1						
Styrene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sulfide	2008-08	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sulfide	2009-03	mg/L		< 5	< 5													< 5
Sulfide	2010-09	mg/L	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Sulfide	2015-09	mg/L	< 1	< 1			< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Sulfide	2015-10	mg/L							< 1	< 1					< 1			< 1
Sulfide	2016-03	mg/L			< 1	**0.559 J**												
Sulfide	2016-06	mg/L			< 1	< 1												
Sulfide	2020-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Sulfide	2023-01	mg/L															< 1	
Sulfide	2023-03	mg/L															< 1	
Technical Chlordane	2008-09	ug/L		< 2	< 2												< 2	
Technical Chlordane	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Technical Chlordane	2009-07	ug/L			< 2.00									< 2.00			< 2	
Technical Chlordane	2009-09	ug/L			< 2.00									< 2.25			< 2	
Technical Chlordane	2010-03	ug/L			< 2.00									< 2.00			< 2.00	
Technical Chlordane	2010-09	ug/L	< 2.00	< 2.00	< 2.00			< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	
Technical Chlordane	2011-03	ug/L			< 2.00				< 2.00								< 2.00	
Technical Chlordane	2015-09	ug/L	< 2.25	< 2.22			< 2.2	< 2.41			< 2.11	< 2.2	< 2.08	< 2.25		< 2.22	< 2.35	
Technical Chlordane	2015-10	ug/L							< 2.5	< 2.33					< 2.41			< 2.3
Technical Chlordane	2016-03	ug/L			< 2	< 2.22												
Technical Chlordane	2016-06	ug/L			< 2.27	< 2.27												
Technical Chlordane	2020-08	ug/L	< 2.5	< 2.35	< 2.44	< 2.35	< 2.35	< 2.35	< 2.35	< 2.6	< 2.35	< 2.3	< 2.41	< 2.35	< 2.47	< 2.44	< 2.38	< 2.5
Technical Chlordane	2023-01	ug/L															< 2.27	
Technical Chlordane	2023-03	ug/L															< 2.08	
Tetrachloroethene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Tetrachloroethene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Tetrachloroethene	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	**0.181 J**	< 1.00	< 1.00	< 1	< 1
Tetrachloroethene	2013-05	ug/L			< 1.00			< 1.00										
Tetrachloroethene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2013-11	ug/L																
Tetrachloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2014-06	ug/L																
Tetrachloroethene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
Tetrachloroethene	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Tetrachloroethene	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
Tetrachloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2016-06	ug/L			< 1	< 1												
Tetrachloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2017-08	ug/L	< 1	**0.399 J**	< 1	< 1	< 1	**0.189 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2017-11	ug/L																
Tetrachloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2018-06	ug/L																
Tetrachloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Styrene	2023-03	ug/L		< 1			< 1			< 1							
Styrene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Styrene	2024-03	ug/L		< 1			< 1			< 1							
Styrene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Sulfide	2008-08	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
Sulfide	2009-03	mg/L	< 5				< 5	< 5	< 5								
Sulfide	2010-09	mg/L	< 1.0	< 1.8 U	< 1.1 U	< 1.0	< 1.0										
Sulfide	2015-09	mg/L		< 1		< 1	< 1	< 1	< 1								
Sulfide	2015-10	mg/L	< 1		**0.275 J**					< 1							
Sulfide	2016-03	mg/L					< 1			< 1							
Sulfide	2016-06	mg/L															
Sulfide	2020-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Sulfide	2023-01	mg/L															
Sulfide	2023-03	mg/L					< 1			< 1							
Technical Chlordane	2008-09	ug/L	< 2				< 2	< 2	< 2								
Technical Chlordane	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Technical Chlordane	2009-07	ug/L					< 2.00		< 2.00								
Technical Chlordane	2009-09	ug/L					< 2.00		< 2.00								
Technical Chlordane	2010-03	ug/L					< 2.00		< 2.00								
Technical Chlordane	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00										
Technical Chlordane	2011-03	ug/L					< 2.00										
Technical Chlordane	2015-09	ug/L		< 2.2		< 2.22	< 2.3	< 2.22	< 2.2								
Technical Chlordane	2015-10	ug/L	< 2.33		< 2.22					< 2.33							
Technical Chlordane	2016-03	ug/L					< 2.08			< 2.22							
Technical Chlordane	2016-06	ug/L															
Technical Chlordane	2020-08	ug/L	< 2.44	< 2.35	< 2.11	< 2.41	< 2.74	< 2.3	< 2.22	< 2.2							
Technical Chlordane	2023-01	ug/L															
Technical Chlordane	2023-03	ug/L					< 2.17			< 2							
Tetrachloroethene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Tetrachloroethene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Tetrachloroethene	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Tetrachloroethene	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Tetrachloroethene	2010-03	ug/L	< 1.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 2.00								
Tetrachloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	**0.681 J**	< 1								
Tetrachloroethene	2013-05	ug/L															
Tetrachloroethene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		**0.187 J**	< 1.00	< 1.00	< 1.00	**1.96**		
Tetrachloroethene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	**1.92**		
Tetrachloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	**0.840 J**		
Tetrachloroethene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	**0.816 J**		
Tetrachloroethene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	**2.39**		
Tetrachloroethene	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	**0.726 J**		
Tetrachloroethene	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
Tetrachloroethene	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	**1.77**		
Tetrachloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.51**		
Tetrachloroethene	2016-06	ug/L															
Tetrachloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**2.07**		
Tetrachloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Tetrachloroethene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.956 J**		
Tetrachloroethene	2017-11	ug/L														< 1	< 1
Tetrachloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	**0.946 J**	< 1	< 1
Tetrachloroethene	2018-06	ug/L														< 1	< 1
Tetrachloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Tetrachloroethene	2018-09	ug/L					< 1						< 1	< 1				
Tetrachloroethene	2018-11	ug/L																
Tetrachloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2020-04	ug/L				< 1	< 1		< 1									
Tetrachloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2021-03	ug/L							< 1	< 1	< 1	< 1						
Tetrachloroethene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2022-03	ug/L							< 1	< 1	< 1	< 1						
Tetrachloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2023-01	ug/L															< 1	
Tetrachloroethene	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
Tetrachloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2024-03	ug/L							< 1	< 1	< 1	< 1						
Tetrachloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Thallium	2008-08	mg/L	< 0.002	**0.00534**	< 0.002	< 0.002	< 0.002	< 0.002	**0.00625**	< 0.002	< 0.002	< 0.002	**0.00238**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Thallium	2009-03	mg/L	< 0.002	**0.003**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Thallium	2009-07	mg/L		**0.00485**					< 0.002			< 0.002	< 0.00200					
Thallium	2009-09	mg/L	< 0.002	**0.00474**	< 0.00200	**0.00208**	< 0.00200	< 0.00200	**0.00968**	< 0.00200	< 0.00200	< 0.002	**0.00328**	< 0.002		**0.00428**	< 0.002	< 0.002
Thallium	2010-03	mg/L	< 0.00200	**0.00562**	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	**0.00222**	< 0.00200	< 0.00200
Thallium	2010-09	mg/L	< 0.00200	**0.00380**	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	**0.00346**	< 0.00200	< 0.00200	**0.00303**	< 0.00200	< 0.00200
Thallium	2011-03	mg/L	< 0.00200	**0.00337**	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	**0.00206**	< 0.00200	< 0.00200	**0.00201**	< 0.00200	< 0.00200
Thallium	2011-09	mg/L	< 0.00200	**0.00342**	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	**0.00404**	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2012-03	mg/L	< 0.00200	**0.00312**	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2012-09	mg/L	< 0.00200	**0.00345**	< 0.00200	< 0.00200	< 0.00200	< 0.00200	**0.00953**	**0.00306**	**0.00987**	< 0.00200	**0.00661**	< 0.00200	< 0.00200	**0.00916**	< 0.00200	< 0.00200
Thallium	2013-03	mg/L	**0.00119 J**	**0.00684**		< 0.00200	< 0.00200		**0.0102**	< 0.002	**0.00104 J**	< 0.002	**0.00405**	**0.000853 J**	< 0.00200	**0.00166 J**	< 0.002	< 0.002
Thallium	2013-05	mg/L			< 0.00200			< 0.00200										
Thallium	2013-09	mg/L	**0.00116 J**	**0.00438**	< 0.00200	< 0.00200	< 0.00200	**0.00188 J**	**0.00428**	**0.000947 J**	**0.00122 J**	< 0.00200	**0.00491**	**0.00252**	**0.000995 J**	**0.00153 J**	< 0.00200	< 0.00200
Thallium	2013-11	mg/L																
Thallium	2014-03	mg/L	< 0.00200	**0.00233**	< 0.00200	< 0.00200	< 0.00200	**0.00155 J**	**0.00296**	**0.00290**	**0.00126 J**	< 0.00200	**0.00132 J**	**0.000804 J**	**0.000983 J**	**0.00452**	< 0.00200	< 0.00200
Thallium	2014-06	mg/L																
Thallium	2014-09	mg/L	**0.000652 J**	**0.00489**	< 0.001	**0.000061 J**	**0.000202 J**	**0.00191**	**0.00485**	**0.00396**	**0.00101**	**0.000047 J**	**0.00501**	**0.00236**	**0.00157**	**0.000954 J**	< 0.001	< 0.001
Thallium	2015-03	mg/L	**0.000622 J**	**0.00647**	**0.0000470 J**	**0.0000420 J**	**0.000122 J**	**0.000376 J**	**0.0112**	**0.000106 J**	**0.00052 J**	< 0.001	**0.00337**	**0.00219**	**0.00125**	**0.000477 J**	< 0.001	< 0.00100
Thallium	2015-09	mg/L	**0.00125**	**0.00555**		**0.00004 J**	**0.000039 J**	**0.000896 J**			**0.000596 J**	< 0.001	**0.00348**	**0.00212**		**0.000399 J**	< 0.001	
Thallium	2015-10	mg/L			< 0.001				**0.00388**	**0.000061 J**					**0.00121**			< 0.001
Thallium	2016-03	mg/L	**0.000168 J**	**0.00434**	< 0.001	**0.000028 J**	**0.000113 J**	**0.00022 J**	**0.00408**	< 0.001	**0.000628 J**	< 0.001	**0.00114**	**0.00143**	**0.00101**	**0.000272 J**	< 0.001	< 0.001
Thallium	2016-06	mg/L			< 0.001	< 0.001												
Thallium	2016-08	mg/L	**0.000659 J**	**0.00412**	< 0.001	< 0.001	< 0.001	< 0.001	**0.00674**	**0.000033 J**	< 0.001	< 0.001	**0.00223**	**0.00184**	**0.000944 J**	**0.00119**	< 0.001	< 0.001
Thallium	2017-03	mg/L	**0.0016**	**0.00444**	< 0.001	**0.000072 J**	**0.000123 J**	**0.000342 J**	**0.0043**	< 0.001	< 0.001	< 0.001	**0.00185**	**0.00198**	**0.00156**	**0.000555 J**	< 0.001	< 0.001
Thallium	2017-08	mg/L	**0.00104**	**0.00406**	< 0.001	< 0.001	**0.000068 J**	**0.00101**	**0.00182**	**0.000084 J**	**0.0004 J**	< 0.001	**0.00347**	**0.00273**	**0.00117**	**0.000444 J**	< 0.001	< 0.001
Thallium	2017-11	mg/L																
Thallium	2018-03	mg/L	**0.000638 J**	**0.00578**	< 0.001	< 0.001	**0.000073 J**	**0.000875 J**	**0.00286**	< 0.001	**0.000423 J**	< 0.001	**0.00366**	**0.00226**	**0.00124**	**0.000901 J**	**0.000153 J**	< 0.001
Thallium	2018-06	mg/L																
Thallium	2018-08	mg/L	**0.000981 J**	**0.00364**	< 0.001	< 0.001		**0.00077 J**	**0.00155**	< 0.001	**0.000313 J**	< 0.001			**0.000961 J**	**0.000464 J**	< 0.001	< 0.001
Thallium	2018-09	mg/L					< 0.001						**0.00168**	**0.00227**				
Thallium	2018-11	mg/L																
Thallium	2019-03	mg/L	**0.00127**	**0.00404**	< 0.001	< 0.001	< 0.001	**0.00106**	**0.00218**	< 0.001	< 0.001	< 0.001	< 0.001	**0.000849 J**	**0.000478 J**	< 0.001	< 0.001	< 0.001
Thallium	2019-08	mg/L	< 0.001	**0.00429**	< 0.001	< 0.001	< 0.001	**0.000334 J**	**0.00067 J**	< 0.001	< 0.001	< 0.001	**0.00182**	**0.00239**	**0.00144**	**0.000408 J**	< 0.001	< 0.001
Thallium	2020-03	mg/L	**0.000873 J**	**0.00321**	< 0.001			**0.000342 J**		< 0.001	< 0.004	< 0.001	**0.000456 J**	**0.00216 J**	**0.00142**	**0.00101**	< 0.001	< 0.001
Thallium	2020-04	mg/L				< 0.001	< 0.001		**0.000865 J**									
Thallium	2020-08	mg/L	**0.000665 J**	**0.00279**	< 0.001	< 0.001	< 0.001	**0.000727 J**	**0.000689 J**	< 0.001	< 0.001	< 0.001	**0.00269**	**0.00301**	**0.00141**	**0.000554 J**	< 0.001	< 0.001
Thallium	2021-03	mg/L							**0.00135**	< 0.001	< 0.001	< 0.001						
Thallium	2021-08	mg/L	**0.000439 J**	**0.00369**	< 0.001	< 0.001	< 0.001	**0.000402 J**	**0.00119**	< 0.001	**0.000313 J**	< 0.001	**0.00331**	**0.00226**	**0.00149**	**0.00249**	< 0.001	< 0.001
Thallium	2022-03	mg/L							**0.00227**	< 0.004	**0.000288 J**	< 0.001						
Thallium	2022-08	mg/L	**0.000773 J**	**0.00285**	< 0.001	< 0.001	< 0.001		**0.00187**	< 0.001	< 0.001	< 0.001	**0.00175**	**0.00231**	**0.00133**	< 0.001	< 0.001	< 0.001
Thallium	2023-01	mg/L															< 0.001	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Tetrachloroethene	2018-09	ug/L													**0.721 J**	< 1	< 1
Tetrachloroethene	2018-11	ug/L														< 1	< 1
Tetrachloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.985 J**	< 1	< 1
Tetrachloroethene	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Tetrachloroethene	2020-04	ug/L			< 1									< 1			
Tetrachloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	**0.657 J**		< 1
Tetrachloroethene	2021-03	ug/L		< 1			< 1			< 1							
Tetrachloroethene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Tetrachloroethene	2022-03	ug/L		< 1			< 1			< 1							
Tetrachloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Tetrachloroethene	2023-01	ug/L															
Tetrachloroethene	2023-03	ug/L		< 1			< 1			< 1							
Tetrachloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Tetrachloroethene	2024-03	ug/L		< 1			< 1			< 1							
Tetrachloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Thallium	2008-08	mg/L	**0.00391**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002								
Thallium	2009-03	mg/L	< 0.002	< 0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002								
Thallium	2009-07	mg/L	**0.00590**				< 0.00200	< 0.00200									
Thallium	2009-09	mg/L	< 0.00200	< 0.00600	< 0.00200	< 0.00200	< 0.00200	< 0.00200									
Thallium	2010-03	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200								
Thallium	2010-09	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200								
Thallium	2011-03	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200								
Thallium	2011-09	mg/L	< 0.00200	< 0.00200	< 0.00400	< 0.00200	< 0.00200	< 0.00200	< 0.00200								
Thallium	2012-03	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200								
Thallium	2012-09	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200								
Thallium	2013-03	mg/L	**0.00301**	< 0.002	< 0.00200		< 0.00200	< 0.002	< 0.002								
Thallium	2013-05	mg/L															
Thallium	2013-09	mg/L	**0.00138 J**	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	~~< 0.00200~~	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200		
Thallium	2013-11	mg/L								~~< 0.00200~~	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200		
Thallium	2014-03	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	~~< 0.00200~~	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200		
Thallium	2014-06	mg/L								~~< 0.00200~~	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200		
Thallium	2014-09	mg/L	**0.00238**	< 0.001	< 0.001	**0.000143 J**	**0.000744 J**	**0.000146 J**	**0.000053 J**	~~< 0.001~~	< 0.001	< 0.001	**0.00006 J**	< 0.001	< 0.001		
Thallium	2015-03	mg/L	**0.000716 J**	< 0.00100	< 0.00100	**0.000119 J**	**0.000119 J**	**0.000066 J**	< 0.001	**0.0000960 J**	< 0.00100	< 0.00100	**0.0000460 J**	< 0.00100	< 0.00100		
Thallium	2015-09	mg/L		< 0.001		**0.000114 J**	**0.000046 J**	< 0.001	< 0.001								
Thallium	2015-10	mg/L	**0.0017**		< 0.001					< 0.001	< 0.001	< 0.001	**0.000041 J**	< 0.001	< 0.001		
Thallium	2016-03	mg/L	**0.0021**	< 0.001	< 0.001	**0.000144 J**	**0.000124 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Thallium	2016-06	mg/L															
Thallium	2016-08	mg/L	**0.00156**	< 0.001	< 0.001	**0.000151 J**	**0.00007 J**	**0.00004 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000035 J**		
Thallium	2017-03	mg/L	**0.00172**	< 0.001	< 0.001	**0.000204 J**	**0.000095 J**	< 0.001	**0.000229 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Thallium	2017-08	mg/L	**0.000966 J**	< 0.001	< 0.001	**0.000127 J**	**0.000122 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Thallium	2017-11	mg/L														< 0.001	< 0.001
Thallium	2018-03	mg/L	**0.00115**	< 0.001	< 0.001	**0.000181 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2018-06	mg/L														< 0.001	< 0.001
Thallium	2018-08	mg/L	**0.00105**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001			
Thallium	2018-09	mg/L													< 0.001	< 0.001	< 0.001
Thallium	2018-11	mg/L														< 0.001	< 0.001
Thallium	2019-03	mg/L	**0.00209**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2019-08	mg/L	**0.00139**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2020-03	mg/L	**0.000399 J**	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001
Thallium	2020-04	mg/L			< 0.001									< 0.001			
Thallium	2020-08	mg/L	**0.000552 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Thallium	2021-03	mg/L		< 0.001			< 0.001			< 0.001							
Thallium	2021-08	mg/L	**0.00293**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Thallium	2022-03	mg/L		< 0.004			< 0.001			< 0.001							
Thallium	2022-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Thallium	2023-01	mg/L															

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Thallium	2023-03	mg/L							**0.0041**	< 0.001	**0.00141**	< 0.001					< 0.001	
Thallium	2023-08	mg/L	**0.0012 J-**	**0.00277**	< 0.001 J	< 0.001	**0.00314**		**0.00211**	< 0.001	**0.000269 J**	< 0.001	**0.00153**	**0.00156**	**0.00139**	**0.0015 J-**	**0.000461 J**	< 0.001
Thallium	2024-03	mg/L							**0.0038**	**0.000525 J**	**0.000386 J**	< 0.001						
Thallium	2024-08	mg/L	**0.00161**	**0.00341**	< 0.001	< 0.001	< 0.001		**0.00255**	< 0.001	< 0.001	< 0.001	**0.00157**	**0.00166**	**0.000868 J**	**0.000714 J**	< 0.001	< 0.001
Thionazin	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10
Thionazin	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thionazin	2009-07	ug/L	< 10	< 10.0	< 10.0	< 10		< 10		< 10			< 10.0		< 10	< 10	< 10	< 10
Thionazin	2009-09	ug/L	< 10	< 10.0	< 10.0	< 10.0		< 10.0		< 10.0			< 10		< 10	< 11.2	< 10	< 10
Thionazin	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 11.2
Thionazin	2010-09	ug/L	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	
Thionazin	2011-03	ug/L	< 10.0	< 10.0	< 10.0			< 10.0		< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	
Thionazin	2011-09	ug/L																
Thionazin	2012-03	ug/L																
Thionazin	2012-09	ug/L																
Thionazin	2013-03	ug/L																
Thionazin	2013-09	ug/L																
Thionazin	2015-09	ug/L	< 11.4	< 11.1			< 11.1	< 11.6			< 10.9	< 11.1	< 10.9	< 11.2		< 11.4	< 10.5	
Thionazin	2015-10	ug/L							< 10.4	< 10.5					< 11.8			< 11.8
Thionazin	2016-03	ug/L			< 11.1	< 11.2												
Thionazin	2016-06	ug/L			< 11.4	< 11.4												
Thionazin	2020-08	ug/L	< 11.8	< 11.6	< 12.2	< 11.8	< 11.8	< 11.8	< 11.5	< 10.9	< 11.4	< 11.8	< 11.6	< 11.1	< 11.9	< 11.6	< 11.9	< 11.6
Thionazin	2023-01	ug/L															< 10.9	
Thionazin	2023-03	ug/L															< 10.4	
Tin	2008-08	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tin	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tin	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tin	2009-09	mg/L	< 0.1	< 0.100	**0.110**	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tin	2010-03	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
Tin	2010-09	mg/L	< 0.100	< 0.100	< 0.100			< 0.100	< 0.100	< 0.100	< 0.100	< 0.100		< 0.100	< 0.100	< 0.100	< 0.100	
Tin	2011-03	mg/L	< 0.100	< 0.100	< 0.100			< 0.100	**0.149**	< 0.100	< 0.100	< 0.100	**0.172**	**0.159**	**0.193**	**0.158**	**0.206**	
Tin	2011-09	mg/L							< 0.100				< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	
Tin	2012-03	mg/L			< 0.100				< 0.100				< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	
Tin	2012-09	mg/L			< 0.100				< 0.100				< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	
Tin	2013-03	mg/L							< 0.1				< 0.1	< 0.1	< 0.100	< 0.100	< 0.1	
Tin	2013-05	mg/L			< 0.100													
Tin	2013-09	mg/L			< 0.100				< 0.100				< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	
Tin	2013-11	mg/L																
Tin	2014-03	mg/L							< 0.100				< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	
Tin	2014-06	mg/L																
Tin	2014-09	mg/L							**0.114**				**0.119**	**0.117**	**0.126**	**0.105**	**0.114**	
Tin	2015-03	mg/L							**0.0158 J**				< 0.100	< 0.100	**0.0126 J**	< 0.1	< 0.1	
Tin	2015-09	mg/L	< 0.005	< 0.005			< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	
Tin	2015-10	mg/L							< 0.005	< 0.005					< 0.005			< 0.005
Tin	2016-03	mg/L			< 0.005	< 0.005			**0.00102 J**				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Tin	2016-06	mg/L			< 0.005	< 0.005												
Tin	2016-08	mg/L			< 0.005				**0.02**				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Tin	2017-03	mg/L			< 0.005				< 0.005				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Tin	2017-08	mg/L			< 0.005				< 0.005				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Tin	2018-03	mg/L			< 0.005				< 0.005				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Tin	2018-08	mg/L			< 0.005				< 0.005						< 0.005	**0.000802 J**	< 0.005	
Tin	2018-09	mg/L											< 0.005	< 0.005				
Tin	2019-03	mg/L			< 0.005				< 0.005				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Tin	2019-08	mg/L			< 0.005				< 0.005				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Tin	2020-03	mg/L			< 0.005								< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	
Tin	2020-04	mg/L							< 0.005									
Tin	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tin	2021-03	mg/L							< 0.005									

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Thallium	2023-03	mg/L		< 0.001			< 0.001			< 0.001							
Thallium	2023-08	mg/L	**0.000636 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Thallium	2024-03	mg/L		< 0.001			< 0.001			< 0.001							
Thallium	2024-08	mg/L	**0.000693 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001		< 0.001
Thionazin	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 11.1	< 10								
Thionazin	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
Thionazin	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0	< 11.4	< 10.0								
Thionazin	2009-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Thionazin	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
Thionazin	2010-09	ug/L	< 10.0	**0.318 J**	< 10.0	< 10.0	< 10.0										
Thionazin	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0									
Thionazin	2011-09	ug/L		< 10.0			< 10.0										
Thionazin	2012-03	ug/L		< 10.0			< 10.0										
Thionazin	2012-09	ug/L		< 10.0			< 10.0										
Thionazin	2013-03	ug/L		< 10.5			< 11.8										
Thionazin	2013-09	ug/L		< 10.1													
Thionazin	2015-09	ug/L		< 11		< 11.2	< 11.6	< 11.2	< 11.2								
Thionazin	2015-10	ug/L	< 11.8		< 10.3					< 11							
Thionazin	2016-03	ug/L					< 10.9			< 11.2							
Thionazin	2016-06	ug/L															
Thionazin	2020-08	ug/L	< 11.9	< 11.8	< 10.5	< 11	< 13.5	< 11.8	< 11.1	< 11.1							
Thionazin	2023-01	ug/L															
Thionazin	2023-03	ug/L					< 10			< 10							
Tin	2008-08	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1								
Tin	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Tin	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Tin	2009-09	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100									
Tin	2010-03	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100								
Tin	2010-09	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100										
Tin	2011-03	mg/L	**0.123**	**0.149**	**0.170**	**0.194**	**0.152**	< 0.100									
Tin	2011-09	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100										
Tin	2012-03	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100										
Tin	2012-09	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100										
Tin	2013-03	mg/L	< 0.1	< 0.1	< 0.100		< 0.100										
Tin	2013-05	mg/L															
Tin	2013-09	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100			~~< 0.100~~							
Tin	2013-11	mg/L								~~**0.349**~~							
Tin	2014-03	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100			~~< 0.100~~							
Tin	2014-06	mg/L								~~< 0.100~~							
Tin	2014-09	mg/L	**0.112**	**0.121**	**0.134**	**0.146**	**0.114**			~~**0.089 J**~~							
Tin	2015-03	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.1			< 0.100							
Tin	2015-09	mg/L		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005								
Tin	2015-10	mg/L	< 0.005		< 0.005					< 0.005							
Tin	2016-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2016-06	mg/L															
Tin	2016-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2018-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2018-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2018-09	mg/L															
Tin	2019-03	mg/L	< 0.005	**0.00356 J**	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2019-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2020-03	mg/L	< 0.005	< 0.005		< 0.005	< 0.005			< 0.005							
Tin	2020-04	mg/L			< 0.005												
Tin	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005		< 0.005
Tin	2021-03	mg/L		< 0.005			< 0.005			< 0.005							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Tin	2021-08	mg/L			< 0.005				< 0.005				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Tin	2022-03	mg/L							< 0.005									
Tin	2022-08	mg/L			< 0.005				< 0.005				< 0.005	< 0.005	< 0.005	< 0.005		
Tin	2023-01	mg/L															< 0.005	
Tin	2023-03	mg/L							< 0.005								< 0.005	
Tin	2023-08	mg/L			< 0.005				< 0.005				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Tin	2024-03	mg/L							< 0.005									
Tin	2024-08	mg/L			< 0.005				< 0.005				< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Toluene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Toluene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
Toluene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	**0.255 J**	< 1	**0.252 J**
Toluene	2013-05	ug/L			< 1.00			< 1.00										
Toluene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2013-11	ug/L																
Toluene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2014-06	ug/L																
Toluene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**0.214 J**	< 1	< 1	< 1.00	< 1.00	< 1	**0.223 J**	< 1	< 1.00
Toluene	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			< 1	< 1	< 1	< 1		< 1	< 1	
Toluene	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
Toluene	2016-03	ug/L	< 1	< 1 J	< 1	< 1	< 1	< 1	< 1 J	< 1 J	< 1	< 1	< 1	< 1	< 1	< 1 J	< 1	< 1
Toluene	2016-06	ug/L			< 1	< 1												
Toluene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2017-03	ug/L	**0.335 J**	**0.234 J**	**1.37**	< 1	< 1	< 1	**0.22 J**	**0.306 J**	< 1	< 1	< 1	< 1	**0.403 J**	**0.329 J**	**0.192 J**	< 1
Toluene	2017-08	ug/L	**0.282 J**	**0.774 J**	**0.66 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.369 J**	**0.36 J**	**1.32**	**0.445 J**
Toluene	2017-11	ug/L																
Toluene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.187 J**	**0.245 J**	< 1	< 1	< 1	< 1	< 1	**0.447 J**	< 1	**0.384 J**
Toluene	2018-06	ug/L																
Toluene	2018-08	ug/L	< 1	< 1	**0.821 J**	< 1		< 1	< 1	**0.569 J**	< 1	< 1			< 1	< 1	< 1	**0.434 J**
Toluene	2018-09	ug/L					< 1						< 1	< 1				
Toluene	2018-11	ug/L																
Toluene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2019-08	ug/L	< 1	**0.556 J**	**0.512 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	**0.463 J**	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2020-04	ug/L				< 1	< 1		< 1									
Toluene	2020-08	ug/L	< 1	**5.78**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2021-03	ug/L							< 1	< 1	< 1	< 1						
Toluene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2022-03	ug/L							< 1	< 1	< 1	< 1						
Toluene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.727 J**
Toluene	2023-01	ug/L															< 1	
Toluene	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
Toluene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		**0.597 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2024-03	ug/L							< 1	< 1	< 1	< 1						
Toluene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Suspended Solids	2014-09	mg/L	**41.6**	**15.8**	**7.67**	**3.86**	**7**	**48.4**	**44.1**	**155**	**37.3**	**73.9**	**14.7**	**8.67**	< 1.88	**33**	**17**	**67.5**
Total Suspended Solids	2015-03	mg/L	**54.5**	**182**	**14.3**	< 1.76	**69.0**	**30.0**	**70.4**	**66.0**	**14**	**31.5**	< 1.76	< 1.76	< 2.5	**13**	**9.5**	**7.25**
Total Suspended Solids	2015-09	mg/L	**39.9**	**20.6**		**1.88**	**73.9**	**25**			**35.6**	**49**	**7.62**	< 1.88		**22**	**14.7**	
Total Suspended Solids	2015-10	mg/L			**12.4**				**41.5**	**87.8**					< 1.88			**10.4**

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Tin	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2022-03	mg/L		< 0.02			< 0.005			< 0.005							
Tin	2022-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2023-01	mg/L															
Tin	2023-03	mg/L		< 0.005			< 0.005			< 0.005							
Tin	2023-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Tin	2024-03	mg/L		< 0.005			< 0.005			< 0.005							
Tin	2024-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005							
Toluene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Toluene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Toluene	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Toluene	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Toluene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Toluene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Toluene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Toluene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Toluene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Toluene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Toluene	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	< 1	< 1								
Toluene	2013-05	ug/L															
Toluene	2013-09	ug/L	< 1.00	**40.9**	**2.24**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	**0.221 J**	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2014-09	ug/L	< 1	**5.38**	**2.26**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Toluene	2015-03	ug/L	< 1.00	**0.313 J**	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2015-09	ug/L		**0.199 J**		< 1	< 1	< 1	< 1								
Toluene	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
Toluene	2016-03	ug/L	< 1	< 1 J	< 1	< 1	< 1 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Toluene	2016-06	ug/L															
Toluene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Toluene	2017-03	ug/L	**0.2 J**	< 1	< 1	< 1	**0.904 J**	**0.26 J**	**0.917 J**	< 1	< 1	< 1	< 1	< 1	< 1		
Toluene	2017-08	ug/L	< 1	< 1	**97.4**	< 1	**1.26**	**0.711 J**	**0.531 J**	< 1	< 1	< 1	< 1	< 1	< 1		
Toluene	2017-11	ug/L					**0.459 J**									< 1	< 1
Toluene	2018-03	ug/L	**0.167 J**	**0.236 J**	< 1	< 1	**0.179 J**	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2018-06	ug/L														< 1	< 1
Toluene	2018-08	ug/L	< 1	< 1	< 1	< 1	**6.56**	< 1	< 1	< 1		< 1	< 1	< 1			
Toluene	2018-09	ug/L													< 1	< 1	< 1
Toluene	2018-11	ug/L					< 1									< 1	< 1
Toluene	2019-03	ug/L	< 1	< 1	**3.6**	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2019-08	ug/L	< 1	< 1	< 1	< 1	**0.446 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Toluene	2020-04	ug/L			< 1									< 1			
Toluene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Toluene	2021-03	ug/L		< 1			< 1			< 1							
Toluene	2021-08	ug/L	< 1	**0.609 J**	< 1	**0.638 J**	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Toluene	2022-03	ug/L		< 1			< 1			< 1							
Toluene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Toluene	2023-01	ug/L															
Toluene	2023-03	ug/L		< 1			< 1			< 1							
Toluene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Toluene	2024-03	ug/L		< 1			< 1			< 1							
Toluene	2024-08	ug/L	< 1	< 1	**68.9**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Total Suspended Solids	2014-09	mg/L	**53**	**78**	**71.7**	**153**	**3.2**	**154**	**44**	**23.7**	**18.3**	**19.3**	**28.5**	**60**	**64**		
Total Suspended Solids	2015-03	mg/L	**47.0**	**82.7**	**34.7**	**13.5**	< 2.5	**72.5**	**4.67**	**5.76**	< 1.76	**1.65 J**	**12.2**	**14.6**	< 1.76		
Total Suspended Solids	2015-09	mg/L		**46.5**		**13**	**2**	**31.3**	< 1.88								
Total Suspended Solids	2015-10	mg/L	**33.5**		**28.1**					< 1.88	< 1.88	< 1.88	**2.2 J**	**10**	< 1.88		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Total Suspended Solids	2016-01	mg/L				< 5.00												
Total Suspended Solids	2016-03	mg/L	44.3	9.33	7.67	1.76	14.3	55.2	82.4 J	223	85.7	60.2	< 9.55	< 18.3	1.25 J	23	22.5	17.8
Total Suspended Solids	2016-06	mg/L			5.75	0.875 J												
Total Suspended Solids	2016-08	mg/L	51.3	12	6.75	1 J	50	27.6	66.2	204	83.1	100	37.6	< 1.88	1 J	32.6	21.3	17.1
Total Suspended Solids	2017-03	mg/L	12.4	6.75	7.88	< 1.88	40.6	53.9	48	160	41	75	2.63	7	2.88	12.5	13.5	7
Total Suspended Solids	2017-08	mg/L	45.8	7.13	8.88	0.875 J	25.3	10	43.4	150	37.1	86.6	5	3.75	< 1.88	15.3	12	10.9
Total Suspended Solids	2017-11	mg/L																
Total Suspended Solids	2018-03	mg/L	43.6	16.5	7.75	0.625 J	96	14.5	49.8	83.7	56.9	42.5	0.75 J	0.75 J	1.25 J	18	9	5
Total Suspended Solids	2018-06	mg/L																
Total Suspended Solids	2018-08	mg/L	33	8	6.12	1 J		20	43.1	159	62.9	99.3			1.25 J	25	14.5	6.25
Total Suspended Solids	2018-09	mg/L					64.8						36.5	6				
Total Suspended Solids	2018-11	mg/L																
Total Suspended Solids	2019-03	mg/L	< 1.88	7	10.6	1.13 J	44.9	28.4	40.8	158	15.2	64	< 1.88	1.25 J	< 1.88	5.37	11.5	7.5
Total Suspended Solids	2019-08	mg/L	39.5	10.6	6.75	1.25 J	1 J	36	68	110	35.3	90.5	1.13 J	8.5	2	6.25	17.3	8.87
Total Suspended Solids	2020-03	mg/L	19	9	6.25			48		130	46	60	< 1.88	6	1.25 J	11	14 J	4.63
Total Suspended Solids	2020-04	mg/L				0.875 J	7.13		25.5									
Total Suspended Solids	2020-08	mg/L	27.3	23.7 J	4.38	1.75 J	15.1	11.3	36.5	102	12.3	72.8	5	4.75	1.5 J	13.6	15.5	8.5
Total Suspended Solids	2021-03	mg/L							31.5	155	46	59						
Total Suspended Solids	2021-08	mg/L	31	19.3	9	< 5	65	27.5	25	94	20	67.7	0.875 J	16.3	1.5 J	14.7	8	8.5
Total Suspended Solids	2022-03	mg/L							26	134	66	31						
Total Suspended Solids	2022-08	mg/L	21.5	13.5	4.25	4.62	86		24	126	47	66	2.38	3.75	1.88	12.3	4.25	4.88
Total Suspended Solids	2023-01	mg/L															5	
Total Suspended Solids	2023-03	mg/L							36	154	47	57					12.8	
Total Suspended Solids	2023-08	mg/L	25	13	5	4	89		31.7	113	36.7	47.3	6.25	21.7	1.88	8.75	9.67	3.5
Total Suspended Solids	2024-03	mg/L							26.3	144	38.5	59						
Total Suspended Solids	2024-08	mg/L	27.8	17.7	1.75 J	2.5	4.88		23	127	56	61	15	< 1.88	< 1.88	10.6	11.8	14
Toxaphene	2008-08	ug/L	< 0.53			< 0.54	< 0.62	< 0.52	< 0.61	< 0.47	< 0.53	< 0.53	< 0.56	< 0.56	< 0.58	< 0.53		< 0.53
Toxaphene	2008-09	ug/L		< 2	< 2												< 2	
Toxaphene	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toxaphene	2009-07	ug/L			< 2.00									< 2.00			< 2	
Toxaphene	2009-09	ug/L			< 2.00									< 2.25			< 2	
Toxaphene	2010-03	ug/L			< 2.00									< 2.00			< 2.00	
Toxaphene	2010-09	ug/L	< 2.00	< 2.00	< 2.00			< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	
Toxaphene	2011-03	ug/L			< 2.00				< 2.00								< 2.00	
Toxaphene	2015-09	ug/L	< 2.25	< 2.22			< 2.2	< 2.41			< 2.11	< 2.2	< 2.08	< 2.25		< 2.22	< 2.35	
Toxaphene	2015-10	ug/L							< 2.5	< 2.33					< 2.41			< 2.3
Toxaphene	2016-03	ug/L			< 2	< 2.22												
Toxaphene	2016-06	ug/L			< 2.27	< 2.27												
Toxaphene	2020-08	ug/L	< 2.5	< 2.35	< 2.44	< 2.35	< 2.35	< 2.35	< 2.35	< 2.6	< 2.35	< 2.3	< 2.41	< 2.35	< 2.47	< 2.44	< 2.38	< 2.5
Toxaphene	2023-01	ug/L															< 2.27	
Toxaphene	2023-03	ug/L															< 2.08	
trans-1,2-Dichloroethene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2009-07	ug/L	< 1	< 1.00		< 1		< 1	1.17	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
trans-1,2-Dichloroethene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	
trans-1,2-Dichloroethene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2013-03	ug/L	< 1.00	0.357 J		< 1.00	< 1.00		0.749 J	0.264 J	0.373 J	< 1	< 1	< 1	< 1.00	0.338 J	< 1	< 1
trans-1,2-Dichloroethene	2013-05	ug/L			< 1.00			< 1.00										
trans-1,2-Dichloroethene	2013-09	ug/L	< 1.00	0.448 J	< 1.00	< 1.00	< 1.00	< 1.00	0.678 J	0.229 J	0.418 J	< 1.00	< 1.00	0.364 J	< 1.00	0.541 J	< 1.00	< 1.00
trans-1,2-Dichloroethene	2013-11	ug/L																
trans-1,2-Dichloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.648 J	< 1.00	0.497 J	< 1.00	< 1.00	< 1.00	0.305 J	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2014-06	ug/L																

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Total Suspended Solids	2016-01	mg/L															
Total Suspended Solids	2016-03	mg/L	23.6	40.6	44.4	12.9	3.25	31.3	4 J	< 1.88	9.88	0.875 J	1 J	12	< 1.76		
Total Suspended Solids	2016-06	mg/L															
Total Suspended Solids	2016-08	mg/L	34.6	41	16.2	22.6	2.88	47	2.13	3.5	0.875 J	< 1.88	< 1.88	24.3	3.38		
Total Suspended Solids	2017-03	mg/L	22	36.6	36	21.9	3.25	18.3	2.25	< 1.88	< 1.88	< 1.88	< 1.88	37.5	0.625 J		
Total Suspended Solids	2017-08	mg/L	32.5	40.5	59.2	12	5.63	15.4	2.75	< 1.88	< 1.88	< 1.88	1.13 J	54.1	< 1.88		
Total Suspended Solids	2017-11	mg/L														2.38	< 1.88
Total Suspended Solids	2018-03	mg/L	14.1	58.9	46	10.1	1.13 J	31	1.38 J	0.875 J	< 1.88	< 1.88	< 1.88	13.6	< 1.88	4	6.88
Total Suspended Solids	2018-06	mg/L			59											1.5 J	< 1.88
Total Suspended Solids	2018-08	mg/L	31.5	45.3	50.1	19.6	3.38	49	< 5	< 1.88		0.875 J	1.13 J	16			
Total Suspended Solids	2018-09	mg/L													< 1.88	< 1.88	1 J
Total Suspended Solids	2018-11	mg/L														1.75 J	0.75 J
Total Suspended Solids	2019-03	mg/L	13.1	23.8	78.3	36	0.875 J	< 1.88	3.38	< 1.88		1.13 J	< 1.88	26.8	< 1.88	4.75	< 1.88
Total Suspended Solids	2019-08	mg/L	33	72	44.7	5.25	2.63	175	3.63	< 1.88	1.13 J	< 1.88	< 1.88	25	< 1.88	< 1.88	1.75 J
Total Suspended Solids	2020-03	mg/L	27	60		6.5	3.38	25	1.25 J	3.25	7.37	< 1.88	1.13 J		1.88	1.38 J	1 J
Total Suspended Solids	2020-04	mg/L			37									13.3			
Total Suspended Solids	2020-08	mg/L	26.6	30	42.7	7.75	2.38	13.7	2.38	1.63 J			< 1.88	17.9	< 1.88		< 1.88
Total Suspended Solids	2021-03	mg/L		53			1.13 J			25.7							
Total Suspended Solids	2021-08	mg/L	36.5	40.9	47.6	13	2.13	22.5	2.75	< 1.88			< 1.88	9.75	< 1.88		1.5 J
Total Suspended Solids	2022-03	mg/L		22			0.875 J			2.75							
Total Suspended Solids	2022-08	mg/L	21.8	59	34	7.5	< 1.88	22	6.75	< 1.88			1.63 J	10	< 1.88		4.75
Total Suspended Solids	2023-01	mg/L															
Total Suspended Solids	2023-03	mg/L		47			< 1.88			12.6							
Total Suspended Solids	2023-08	mg/L	17.5	76	33.7	8	< 1.88	19	6.75	0.875 J			2	12.5	1 J		1.13 J
Total Suspended Solids	2024-03	mg/L		30			1.38 J			1.88							
Total Suspended Solids	2024-08	mg/L	16	53	47	4.88	< 1.88	21	2.88	< 1.88			2.25	17.5	< 1.88		< 1.88
Toxaphene	2008-08	ug/L		< 0.47	< 0.51	< 0.55											
Toxaphene	2008-09	ug/L	< 2				< 2	< 2	< 2								
Toxaphene	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Toxaphene	2009-07	ug/L					< 2.00		< 2.00								
Toxaphene	2009-09	ug/L					< 2.00		< 2.00								
Toxaphene	2010-03	ug/L					< 2.00		< 2.00								
Toxaphene	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00										
Toxaphene	2011-03	ug/L					< 2.00										
Toxaphene	2015-09	ug/L		< 2.2		< 2.22	< 2.3	< 2.22	< 2.2								
Toxaphene	2015-10	ug/L	< 2.33		< 2.22					< 2.33							
Toxaphene	2016-03	ug/L					< 2.08			< 2.22							
Toxaphene	2016-06	ug/L															
Toxaphene	2020-08	ug/L	< 2.44	< 2.35	< 2.11	< 2.41	< 2.74	< 2.3	< 2.22	< 2.2							
Toxaphene	2023-01	ug/L															
Toxaphene	2023-03	ug/L					< 2.17			< 2							
trans-1,2-Dichloroethene	2008-08	ug/L	< 1	< 1	1.27	< 1	< 1	< 1	< 1								
trans-1,2-Dichloroethene	2009-03	ug/L	< 1	< 1	3.16	< 1	< 1	< 1	< 1								
trans-1,2-Dichloroethene	2009-07	ug/L	< 1.00	< 1	2.7	< 1	< 1.00										
trans-1,2-Dichloroethene	2009-09	ug/L	< 1.00	< 5.00	1.84	< 1.00	< 1.00										
trans-1,2-Dichloroethene	2010-03	ug/L	1.13	< 1.00	1.59	< 1.00	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2010-09	ug/L	< 1.00	< 1.00	2.72	< 1.00	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2011-03	ug/L	< 1.00	< 1.00	1.59	< 1.00	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2011-09	ug/L	1.02	< 1.00	2.22	< 1.00	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2012-03	ug/L	< 1.00	< 1.00	2.00	< 1.00	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2012-09	ug/L	1.07	< 1.00	1.36	< 1.00	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2013-03	ug/L	0.805 J	< 1	< 25.0		< 1.00	< 1	< 1								
trans-1,2-Dichloroethene	2013-05	ug/L															
trans-1,2-Dichloroethene	2013-09	ug/L	0.782 J	< 1.00	1.24	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
trans-1,2-Dichloroethene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
trans-1,2-Dichloroethene	2014-03	ug/L	0.762 J	< 1.00	1.04	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
trans-1,2-Dichloroethene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		

Table 14
Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Upper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
trans-1,2-Dichloroethene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.72 J**	**0.263 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2015-03	ug/L	< 1	**0.274 J**	< 1.00	< 1.00	< 1.00	< 1.00	**0.494 J**	**0.250 J**	**0.337 J**	< 1	< 1.00	< 1.00	< 1	**0.425 J**	< 1	< 1.00
trans-1,2-Dichloroethene	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			**0.309 J**	< 1	< 1	< 1		< 1	< 1	
trans-1,2-Dichloroethene	2015-10	ug/L			< 1				**0.974 J**	< 1					< 1			< 1
trans-1,2-Dichloroethene	2016-03	ug/L	< 1	**0.261 J**	< 1	< 1	< 1	< 1	< 1	**0.235 J**	**0.237 J**	< 1	< 1	< 1	< 1	**0.502 J**	< 1	< 1
trans-1,2-Dichloroethene	2016-06	ug/L			< 1	< 1												
trans-1,2-Dichloroethene	2016-08	ug/L	< 1	**0.275 J**	< 1	< 1	< 1	< 1	**0.42 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.472 J**	< 1	< 1
trans-1,2-Dichloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.528 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.256 J**	< 1	< 1
trans-1,2-Dichloroethene	2017-08	ug/L	< 1	**0.222 J**	< 1	< 1	< 1	< 1	**0.454 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.426 J**	< 1	< 1
trans-1,2-Dichloroethene	2017-11	ug/L																
trans-1,2-Dichloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.498 J**	**0.297 J**	< 1	< 1	< 1	< 1	< 1	**0.475 J**	< 1	< 1
trans-1,2-Dichloroethene	2018-06	ug/L																
trans-1,2-Dichloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	**0.525 J**	< 1	< 1	< 1			< 1	**0.456 J**	< 1	< 1
trans-1,2-Dichloroethene	2018-09	ug/L					< 1						< 1	< 1				
trans-1,2-Dichloroethene	2018-11	ug/L																
trans-1,2-Dichloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.449 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.529 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2020-03	ug/L	< 1	**0.274 J**	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	**0.31 J**	< 1	< 1
trans-1,2-Dichloroethene	2020-04	ug/L				< 1	< 1		**0.357 J**									
trans-1,2-Dichloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.4 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.372 J**	< 1	< 1
trans-1,2-Dichloroethene	2021-03	ug/L							**0.336 J**	< 1	< 1	< 1						
trans-1,2-Dichloroethene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	**0.381 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2022-03	ug/L							**0.382 J**	< 1	< 1	< 1						
trans-1,2-Dichloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2023-01	ug/L															< 1	
trans-1,2-Dichloroethene	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
trans-1,2-Dichloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2024-03	ug/L							< 1	< 1	< 1	< 1						
trans-1,2-Dichloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		**0.308 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2009-07	ug/L	< 5	< 5.00		< 5		< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	
trans-1,3-Dichloropropene	2009-09	ug/L	< 5	< 5.00		< 5.00		< 5.00	< 5.00	< 25.0	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	
trans-1,3-Dichloropropene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 5.00	< 5.00	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00
trans-1,3-Dichloropropene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 50.0	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2013-03	ug/L	< 5.00	< 5		< 5.00	< 5.00		< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5.00	< 5	< 5
trans-1,3-Dichloropropene	2013-05	ug/L			< 5.00			< 5.00										
trans-1,3-Dichloropropene	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2013-11	ug/L																
trans-1,3-Dichloropropene	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2014-06	ug/L																
trans-1,3-Dichloropropene	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2015-03	ug/L	< 5	< 5	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5	< 5.00
trans-1,3-Dichloropropene	2015-09	ug/L	< 5	< 5		< 5	< 5	< 5			< 5	< 5	< 5	< 5		< 5	< 5	
trans-1,3-Dichloropropene	2015-10	ug/L			< 5				< 5	< 5					< 5			< 5
trans-1,3-Dichloropropene	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2016-06	ug/L			< 5	< 5												
trans-1,3-Dichloropropene	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2017-11	ug/L																
trans-1,3-Dichloropropene	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2018-06	ug/L																

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
trans-1,2-Dichloroethene	2014-09	ug/L	**0.36 J**	< 1	**0.917 J**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
trans-1,2-Dichloroethene	2015-03	ug/L	**0.753 J**	< 1.00	**1.65**	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
trans-1,2-Dichloroethene	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
trans-1,2-Dichloroethene	2015-10	ug/L	**1.31**		**2.26**					< 1	< 1	< 1	< 1	< 1	< 1		
trans-1,2-Dichloroethene	2016-03	ug/L	**1.19**	< 1	**1.45**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
trans-1,2-Dichloroethene	2016-06	ug/L															
trans-1,2-Dichloroethene	2016-08	ug/L	**0.979 J**	< 1	**1.3**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
trans-1,2-Dichloroethene	2017-03	ug/L	**0.759 J**	< 1	**1.29**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
trans-1,2-Dichloroethene	2017-08	ug/L	**0.723 J**	< 1	**1.66**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
trans-1,2-Dichloroethene	2017-11	ug/L														< 1	< 1
trans-1,2-Dichloroethene	2018-03	ug/L	**0.878 J**	< 1	**1.52**	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2018-06	ug/L														< 1	< 1
trans-1,2-Dichloroethene	2018-08	ug/L	**0.837 J**	< 1	**2.06**	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
trans-1,2-Dichloroethene	2018-09	ug/L													< 1	< 1	< 1
trans-1,2-Dichloroethene	2018-11	ug/L														< 1	< 1
trans-1,2-Dichloroethene	2019-03	ug/L	**0.929 J**	< 1	**1.03**	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2019-08	ug/L	**1.2**	< 1	**1.66**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2020-03	ug/L	**0.789 J**	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
trans-1,2-Dichloroethene	2020-04	ug/L			**0.817 J**									< 1			
trans-1,2-Dichloroethene	2020-08	ug/L	**1**	< 1	**1.38**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
trans-1,2-Dichloroethene	2021-03	ug/L		< 1			< 1			< 1							
trans-1,2-Dichloroethene	2021-08	ug/L	**1.38 J+**	< 1	**1.52**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
trans-1,2-Dichloroethene	2022-03	ug/L		< 1			< 1			< 1							
trans-1,2-Dichloroethene	2022-08	ug/L	**0.83 J**	< 1	**1.07**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
trans-1,2-Dichloroethene	2023-01	ug/L															
trans-1,2-Dichloroethene	2023-03	ug/L		< 1			< 1			< 1							
trans-1,2-Dichloroethene	2023-08	ug/L	**0.516 J**	< 1	**1.02**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
trans-1,2-Dichloroethene	2024-03	ug/L		< 1			< 1			< 1							
trans-1,2-Dichloroethene	2024-08	ug/L	**0.881 J**	< 1	**0.893 J**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
trans-1,3-Dichloropropene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
trans-1,3-Dichloropropene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5								
trans-1,3-Dichloropropene	2009-07	ug/L	< 5.00	< 5	< 5	< 5	< 5.00										
trans-1,3-Dichloropropene	2009-09	ug/L	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00										
trans-1,3-Dichloropropene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2013-03	ug/L	< 5	< 5	< 125		< 5.00	< 5	< 5								
trans-1,3-Dichloropropene	2013-05	ug/L															
trans-1,3-Dichloropropene	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2013-11	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2014-06	ug/L									< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
trans-1,3-Dichloropropene	2015-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2015-09	ug/L		< 5		< 5	< 5	< 5	< 5								
trans-1,3-Dichloropropene	2015-10	ug/L	< 5		< 5					< 5	< 5	< 5	< 5	< 5	< 5		
trans-1,3-Dichloropropene	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
trans-1,3-Dichloropropene	2016-06	ug/L															
trans-1,3-Dichloropropene	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
trans-1,3-Dichloropropene	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
trans-1,3-Dichloropropene	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		
trans-1,3-Dichloropropene	2017-11	ug/L														< 5	< 5
trans-1,3-Dichloropropene	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2018-06	ug/L														< 5	< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
trans-1,3-Dichloropropene	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2018-09	ug/L					< 5						< 5	< 5				
trans-1,3-Dichloropropene	2018-11	ug/L																
trans-1,3-Dichloropropene	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2020-03	ug/L	< 5	< 5	< 5			< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2020-04	ug/L				< 5	< 5		< 5									
trans-1,3-Dichloropropene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2021-03	ug/L							< 5	< 5	< 5	< 5						
trans-1,3-Dichloropropene	2021-08	ug/L	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2022-03	ug/L							< 5	< 5	< 5	< 5						
trans-1,3-Dichloropropene	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2023-01	ug/L															< 5	
trans-1,3-Dichloropropene	2023-03	ug/L							< 5	< 5	< 5	< 5					< 5	
trans-1,3-Dichloropropene	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2024-03	ug/L							< 5	< 5	< 5	< 5						
trans-1,3-Dichloropropene	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,4-Dichloro-2-butene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2009-07	ug/L	< 10	< 10.0		< 10		< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	
trans-1,4-Dichloro-2-butene	2009-09	ug/L	< 10	< 10.0		< 10.0		< 10.0	< 10.0	< 50.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	
trans-1,4-Dichloro-2-butene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2013-03	ug/L	< 10.0	< 10		< 10.0	< 10.0		< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10
trans-1,4-Dichloro-2-butene	2013-05	ug/L			< 10.0			< 10.0										
trans-1,4-Dichloro-2-butene	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2013-11	ug/L																
trans-1,4-Dichloro-2-butene	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2014-06	ug/L																
trans-1,4-Dichloro-2-butene	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2015-03	ug/L	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
trans-1,4-Dichloro-2-butene	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	
trans-1,4-Dichloro-2-butene	2015-10	ug/L			< 10				< 10	< 10					< 10			< 10
trans-1,4-Dichloro-2-butene	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2016-06	ug/L			< 10	< 10												
trans-1,4-Dichloro-2-butene	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2017-11	ug/L																
trans-1,4-Dichloro-2-butene	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2018-06	ug/L																
trans-1,4-Dichloro-2-butene	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2018-09	ug/L					< 10						< 10	< 10				
trans-1,4-Dichloro-2-butene	2018-11	ug/L																
trans-1,4-Dichloro-2-butene	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2020-03	ug/L	< 10	< 10	< 10			< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2020-04	ug/L				< 10	< 10		< 10									
trans-1,4-Dichloro-2-butene	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2021-03	ug/L							< 10	< 10	< 10	< 10						
trans-1,4-Dichloro-2-butene	2021-08	ug/L	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2022-03	ug/L							< 10	< 10	< 10	< 10						
trans-1,4-Dichloro-2-butene	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
trans-1,3-Dichloropropene	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5			
trans-1,3-Dichloropropene	2018-09	ug/L													< 5	< 5	< 5
trans-1,3-Dichloropropene	2018-11	ug/L														< 5	< 5
trans-1,3-Dichloropropene	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2020-03	ug/L	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5
trans-1,3-Dichloropropene	2020-04	ug/L			< 5									< 5			
trans-1,3-Dichloropropene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
trans-1,3-Dichloropropene	2021-03	ug/L		< 5			< 5			< 5							
trans-1,3-Dichloropropene	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
trans-1,3-Dichloropropene	2022-03	ug/L		< 5			< 5			< 5							
trans-1,3-Dichloropropene	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
trans-1,3-Dichloropropene	2023-01	ug/L															
trans-1,3-Dichloropropene	2023-03	ug/L		< 5			< 5			< 5							
trans-1,3-Dichloropropene	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
trans-1,3-Dichloropropene	2024-03	ug/L		< 5			< 5			< 5							
trans-1,3-Dichloropropene	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5		< 5
trans-1,4-Dichloro-2-butene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
trans-1,4-Dichloro-2-butene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10								
trans-1,4-Dichloro-2-butene	2009-07	ug/L	< 10.0	< 10	< 10	< 10	< 10.0										
trans-1,4-Dichloro-2-butene	2009-09	ug/L	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0										
trans-1,4-Dichloro-2-butene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2013-03	ug/L	< 10	< 10	< 250		< 10.0	< 10	< 10								
trans-1,4-Dichloro-2-butene	2013-05	ug/L															
trans-1,4-Dichloro-2-butene	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2013-11	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2014-06	ug/L									< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
trans-1,4-Dichloro-2-butene	2015-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								
trans-1,4-Dichloro-2-butene	2015-10	ug/L	< 10		< 10					< 10	< 10	< 10	< 10	< 10	< 10		
trans-1,4-Dichloro-2-butene	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
trans-1,4-Dichloro-2-butene	2016-06	ug/L															
trans-1,4-Dichloro-2-butene	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
trans-1,4-Dichloro-2-butene	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
trans-1,4-Dichloro-2-butene	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
trans-1,4-Dichloro-2-butene	2017-11	ug/L														< 10	< 10
trans-1,4-Dichloro-2-butene	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2018-06	ug/L														< 10	< 10
trans-1,4-Dichloro-2-butene	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10			
trans-1,4-Dichloro-2-butene	2018-09	ug/L													< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2018-11	ug/L														< 10	< 10
trans-1,4-Dichloro-2-butene	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2020-03	ug/L	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2020-04	ug/L			< 10									< 10			
trans-1,4-Dichloro-2-butene	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
trans-1,4-Dichloro-2-butene	2021-03	ug/L		< 10			< 10			< 10							
trans-1,4-Dichloro-2-butene	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
trans-1,4-Dichloro-2-butene	2022-03	ug/L		< 10			< 10			< 10							
trans-1,4-Dichloro-2-butene	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
trans-1,4-Dichloro-2-butene	2023-01	ug/L															< 10	
trans-1,4-Dichloro-2-butene	2023-03	ug/L							< 10	< 10	< 10	< 10					< 10	
trans-1,4-Dichloro-2-butene	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2024-03	ug/L							< 10	< 10	< 10	< 10						
trans-1,4-Dichloro-2-butene	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Trichloroethene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**1.11**	**1.99**	**4.98**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**4.08**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2009-07	ug/L	< 1	< 1.00		< 1		< 1	< 1	< 1	**3.9**	< 1	< 1.00	< 1.00	< 1	< 1	< 1	
Trichloroethene	2009-09	ug/L	< 1	< 1.00		< 1.00		< 1.00	< 1.00	< 5.00	**3.85**	< 1	< 1	< 1	< 1	< 1	< 1	
Trichloroethene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**2.47**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**3.99**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	**1.27**	**2.88**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**2.98**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**2.90**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**3.35**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2013-03	ug/L	< 1.00	**0.271 J**		< 1.00	< 1.00		< 1	< 1	**3.63**	< 1	< 1	< 1	< 1.00	< 1.00	< 1	< 1
Trichloroethene	2013-05	ug/L			< 1.00			< 1.00										
Trichloroethene	2013-09	ug/L	< 1.00	**0.239 J**	< 1.00	< 1.00	< 1.00	< 1.00	**0.265 J**	< 1.00	**2.44**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2013-11	ug/L																
Trichloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**2.31**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2014-06	ug/L																
Trichloroethene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	**0.286 J**	**0.236 J**	< 1	**2.19**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**0.246 J**	**1.46**	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1.00
Trichloroethene	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			**1.34**	< 1	< 1	< 1		< 1	< 1	
Trichloroethene	2015-10	ug/L			< 1				< 1	< 1					< 1			< 1
Trichloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.24**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2016-06	ug/L			< 1	< 1												
Trichloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.417 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2017-03	ug/L	**0.233 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2017-11	ug/L																
Trichloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.261 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2018-06	ug/L																
Trichloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Trichloroethene	2018-09	ug/L					< 1						< 1	< 1				
Trichloroethene	2018-11	ug/L																
Trichloroethene	2019-03	ug/L	< 1	**0.529 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2020-03	ug/L	< 1	< 1	< 1			< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2020-04	ug/L				< 1	< 1		< 1									
Trichloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2021-03	ug/L							< 1	< 1	< 1	< 1						
Trichloroethene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2022-03	ug/L							< 1	< 1	< 1	< 1						
Trichloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2023-01	ug/L															< 1	
Trichloroethene	2023-03	ug/L							< 1	< 1	< 1	< 1					< 1	
Trichloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2024-03	ug/L							< 1	< 1	< 1	< 1						
Trichloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vanadium	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	2009-09	mg/L	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	2010-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2010-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2011-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
trans-1,4-Dichloro-2-butene	2023-01	ug/L															
trans-1,4-Dichloro-2-butene	2023-03	ug/L		< 10			< 10			< 10							
trans-1,4-Dichloro-2-butene	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
trans-1,4-Dichloro-2-butene	2024-03	ug/L		< 10			< 10			< 10							
trans-1,4-Dichloro-2-butene	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Trichloroethene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Trichloroethene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1								
Trichloroethene	2009-07	ug/L	< 1.00	< 1	< 1	< 1	< 1.00										
Trichloroethene	2009-09	ug/L	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00										
Trichloroethene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Trichloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Trichloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Trichloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Trichloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Trichloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00								
Trichloroethene	2013-03	ug/L	< 1	< 1	< 25.0		< 1.00	**0.586 J**	< 1								
Trichloroethene	2013-05	ug/L															
Trichloroethene	2013-09	ug/L	< 1.00	< 1.00	**0.228 J**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	**0.460 J**		
Trichloroethene	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Trichloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Trichloroethene	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Trichloroethene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	**0.225 J**		
Trichloroethene	2015-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Trichloroethene	2015-09	ug/L		< 1		< 1	< 1	< 1	< 1								
Trichloroethene	2015-10	ug/L	< 1		< 1					< 1	< 1	< 1	< 1	< 1	< 1		
Trichloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	**0.25 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.44 J**		
Trichloroethene	2016-06	ug/L															
Trichloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	**0.288 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Trichloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Trichloroethene	2017-08	ug/L	< 1	< 1	< 1	< 1	**0.208 J**	**0.457 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.226 J**		
Trichloroethene	2017-11	ug/L														< 1	< 1
Trichloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2018-06	ug/L														< 1	< 1
Trichloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
Trichloroethene	2018-09	ug/L													< 1	< 1	< 1
Trichloroethene	2018-11	ug/L														< 1	< 1
Trichloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2020-03	ug/L	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Trichloroethene	2020-04	ug/L			< 1									< 1			
Trichloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Trichloroethene	2021-03	ug/L		< 1			< 1			< 1							
Trichloroethene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Trichloroethene	2022-03	ug/L		< 1			< 1			< 1							
Trichloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Trichloroethene	2023-01	ug/L															
Trichloroethene	2023-03	ug/L		< 1			< 1			< 1							
Trichloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Trichloroethene	2024-03	ug/L		< 1			< 1			< 1							
Trichloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Vanadium	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Vanadium	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Vanadium	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
Vanadium	2009-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500									
Vanadium	2010-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2010-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2011-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Vanadium	2011-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2012-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2012-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2013-03	mg/L	< 0.0500	< 0.05		< 0.0500	**0.00467 J**		< 0.05	**0.0101 J**	**0.00451 J**	**0.00448 J**	< 0.05	< 0.05	< 0.0500	< 0.0500	**0.00457 J**	**0.00995 J**
Vanadium	2013-05	mg/L			**0.00291 J**			< 0.0500										
Vanadium	2013-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.00391 J**	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.00540 J**
Vanadium	2013-11	mg/L																
Vanadium	2014-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.00382 J**	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.00679 J**
Vanadium	2014-06	mg/L																
Vanadium	2014-09	mg/L	**0.00049 J**	< 0.005	**0.00053 J**	**0.000913 J**	**0.00107 J**	**0.000551 J**	**0.000522 J**	**0.00215 J**	**0.00075 J**	**0.000883 J**	< 0.005	**0.000549 J**	**0.000654 J**	**0.000482 J**	**0.00274 J**	**0.00103 J**
Vanadium	2015-03	mg/L	< 0.005	**0.00551**	**0.000554 J**	**0.000641 J**	**0.00253 J**	< 0.00500	< 0.00500	**0.00119 J**	< 0.005	**0.00064 J**	**0.000527 J**	**0.000503 J**	< 0.005	< 0.005	**0.000449 J**	< 0.00500
Vanadium	2015-09	mg/L	< 0.005	**0.000775 J**		**0.001 J**	**0.00324 J**	< 0.005			< 0.005	**0.000588 J**	< 0.005	< 0.005		< 0.005	**0.000544 J**	
Vanadium	2015-10	mg/L			**0.000942 J**				< 0.005	**0.00143 J**					**0.000708 J**			**0.000456 J**
Vanadium	2016-03	mg/L	< 0.005	< 0.005	< 0.005	**0.000753 J**	**0.00145 J**	**0.000323 J**	**0.000329 J**	**0.00195 J**	**0.000471 J**	**0.000718 J**	< 0.005	< 0.005	**0.000363 J**	< 0.005	**0.000522 J**	**0.000471 J**
Vanadium	2016-06	mg/L			< 0.005	**0.000613 J**												
Vanadium	2016-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00165 J**	**0.00288 J**	< 0.005	**0.00248 J**	**0.0022 J**	**0.000546 J**	**0.000679 J**	**0.000316 J**	< 0.005	**0.000515 J**	**0.000293 J**	**0.000434 J**	**0.000289 J**
Vanadium	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00201 J**	< 0.005	< 0.005	**0.00208 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00101 J**	< 0.005	< 0.005	< 0.005
Vanadium	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00117 J**	< 0.005	< 0.005	**0.00161 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.000982 J**	< 0.005	< 0.005	< 0.005
Vanadium	2017-11	mg/L																
Vanadium	2018-03	mg/L	< 0.005	< 0.005	< 0.005	**0.000926 J**	**0.00318 J**	< 0.005	< 0.005	**0.00104 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.000871 J**	< 0.005	< 0.005	< 0.005
Vanadium	2018-06	mg/L																
Vanadium	2018-08	mg/L	< 0.005	< 0.005	**0.00356 J**	**0.000991 J**		< 0.005	< 0.005	**0.00161 J**	**0.000797 J**	**0.00068 J**			< 0.005	< 0.005	**0.000665 J**	**0.000622 J**
Vanadium	2018-09	mg/L					**0.00282 J**						< 0.005	< 0.005				
Vanadium	2018-11	mg/L																
Vanadium	2019-03	mg/L	< 0.005	< 0.005	**0.000864 J**	< 0.005	**0.00165 J**	< 0.005	< 0.005	**0.00217 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00216 J**	< 0.005	< 0.005
Vanadium	2019-08	mg/L	< 0.005	< 0.005	< 0.005	**0.0022 J**	< 0.005	< 0.005	< 0.005	**0.0018 J**	**0.000901 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00106 J**	< 0.005	< 0.005
Vanadium	2020-03	mg/L	< 0.005	< 0.005	< 0.005			< 0.005		**0.00239 J**	< 0.02	< 0.005	< 0.005	< 0.02	**0.00104 J**	< 0.005	< 0.005	< 0.005
Vanadium	2020-04	mg/L				**0.000858 J**	**0.00108 J**		< 0.005									
Vanadium	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00102 J**	< 0.005	< 0.005
Vanadium	2021-03	mg/L							< 0.005	**0.00238 J**	< 0.005	< 0.005						
Vanadium	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00282 J**	< 0.005	< 0.005	**0.00176 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00118 J**	< 0.005	**0.00119 J**
Vanadium	2022-03	mg/L							< 0.005	< 0.02	< 0.005	< 0.005						
Vanadium	2022-08	mg/L	< 0.005 J	< 0.005	< 0.005	**0.00285 J**	**0.00396 J**		< 0.005	**0.00164 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0015 J**	< 0.005
Vanadium	2023-01	mg/L															< 0.005	
Vanadium	2023-03	mg/L							< 0.005	**0.00237 J**	< 0.005	< 0.005					< 0.005	
Vanadium	2023-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00111 J**	**0.00347 J**		< 0.005	**0.00123 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2024-03	mg/L							< 0.005	< 0.005	< 0.005	< 0.005						
Vanadium	2024-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00254 J**	< 0.005		< 0.005	**0.0024 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vinyl Acetate	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	2009-07	ug/L	< 2	< 2.00		< 2		< 2	< 2	< 2	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2	
Vinyl Acetate	2009-09	ug/L	< 2	< 2.00		< 2.00		< 2.00	< 2.00	< 10.0	< 2.00	< 2	< 2	< 2	< 2	< 2	< 2	
Vinyl Acetate	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2011-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2012-03	ug/L	< 2.00	< 10.0	< 2.00	< 2.00	< 2.00	< 10.0	< 10.0	< 10.0	< 2.00	< 2.00	< 10.0	< 10.0	< 2.00	< 2.00	< 2.00	< 10.0
Vinyl Acetate	2012-09	ug/L	< 4.00	< 10.0	< 10.0	< 4.00	< 4.00	< 10.0	< 10.0	< 10.0	< 10.0	< 4.00	< 10.0	< 10.0	< 4.00	< 4.00	< 4.00	< 4.00
Vinyl Acetate	2013-03	ug/L	< 2.00	< 2		< 2.00	< 2.00		< 2	< 2	< 2	< 2	< 2	< 2	< 2.00	< 2.00	< 2	**1.05 J**
Vinyl Acetate	2013-05	ug/L			< 2.00			< 2.00										
Vinyl Acetate	2013-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2013-11	ug/L																
Vinyl Acetate	2014-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2014-06	ug/L																
Vinyl Acetate	2014-09	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	2015-03	ug/L	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Vinyl Acetate	2015-09	ug/L	< 10	< 10		< 10	< 10	< 10			< 10	< 10	< 10	< 10		< 10	< 10	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Vanadium	2011-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2012-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2012-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2013-03	mg/L	< 0.05	**0.00728 J**	**0.00441 J**		< 0.0500	**0.00749 J**	< 0.05								
Vanadium	2013-05	mg/L															
Vanadium	2013-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	~~**0.0100 J**~~	**0.00501 J**	**0.00519 J**	**0.00785 J**	**0.00556 J**	**0.00402 J**		
Vanadium	2013-11	mg/L								~~**0.00787 J**~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500		
Vanadium	2014-03	mg/L	< 0.0500	< 0.0500	< 0.0500	**0.0134 J**	< 0.0500	**0.00635 J**	< 0.0500	~~**0.00602 J**~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.00304 J**		
Vanadium	2014-06	mg/L								~~**0.00338 J**~~	< 0.0500	**0.00259 J**	< 0.0500	< 0.0500	< 0.0500		
Vanadium	2014-09	mg/L	**0.000468 J**	**0.00232 J**	**0.00175 J**	**0.00189 J**	**0.00133 J**	**0.00256 J**	**0.000899 J**	~~**0.00212 J**~~	**0.0015 J**	**0.00185 J**	**0.000583 J**	**0.00112 J**	**0.0015 J**		
Vanadium	2015-03	mg/L	< 0.00500	**0.00296 J**	**0.00136 J**	**0.000861 J**	< 0.005	**0.00224 J**	< 0.005	**0.00109 J**	**0.000756 J**	**0.00129 J**	< 0.00500	< 0.00500	**0.000564 J**		
Vanadium	2015-09	mg/L		**0.00199 J**		**0.00063 J**	< 0.005	< 0.005	< 0.005								
Vanadium	2015-10	mg/L	< 0.005		**0.00135 J**					**0.00166 J**	**0.000822 J**	**0.00114 J**	**0.000474 J**	**0.000832 J**	**0.000715 J**		
Vanadium	2016-03	mg/L	< 0.005	**0.00144 J**	**0.00135 J**	**0.000537 J**	**0.00058 J**	< 0.005	**0.000274 J**	**0.00153 J**	**0.000769 J**	**0.000867 J**	**0.000365 J**	**0.000488 J**	**0.000456 J**		
Vanadium	2016-06	mg/L															
Vanadium	2016-08	mg/L	**0.000334 J**	**0.00132 J**	**0.00129 J**	**0.000579 J**	**0.000503 J**	**0.000594 J**	< 0.005	**0.00143 J**	**0.000697 J**	**0.00105 J**	**0.000545 J**	**0.000641 J**	**0.00065 J**		
Vanadium	2017-03	mg/L	< 0.005	**0.00139 J**	**0.00147 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00176 J**	< 0.005	**0.00103 J**	< 0.005	< 0.005	< 0.005		
Vanadium	2017-08	mg/L	< 0.005	**0.00105 J**	**0.0011 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00116 J**	< 0.005	**0.000947 J**	< 0.005	< 0.005	< 0.005		
Vanadium	2017-11	mg/L														< 0.005	< 0.005
Vanadium	2018-03	mg/L	< 0.005	**0.00189 J**	**0.00156 J**	**0.00109 J**	< 0.005	< 0.005	< 0.005	**0.0018 J**	< 0.005	**0.00117 J**	< 0.005	< 0.005	< 0.005	**0.000867 J**	**0.000894 J**
Vanadium	2018-06	mg/L														**0.00295 J**	**0.000787 J**
Vanadium	2018-08	mg/L	< 0.005	**0.00146 J**	**0.00133 J**	< 0.005	~~**0.00091 J**~~	< 0.005	< 0.005	**0.00146 J**		**0.00104 J**	**0.000694 J**	< 0.005			
Vanadium	2018-09	mg/L													**0.000696 J**	**0.00205 J**	**0.001 J**
Vanadium	2018-11	mg/L														**0.00284 J**	**0.0013 J**
Vanadium	2019-03	mg/L	< 0.005	< 0.005	**0.0016 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00179 J**		< 0.005	< 0.005	**0.000964 J**	< 0.005	**0.00242 J**	**0.00083 J**
Vanadium	2019-08	mg/L	< 0.005	**0.00128 J**	**0.00105 J**	**0.000924 J**	< 0.005	< 0.005	< 0.005	**0.00117 J**	< 0.005	< 0.005	**0.000864 J**	**0.00112 J**	< 0.005	**0.00124 J**	**0.000962 J**
Vanadium	2020-03	mg/L	< 0.005	**0.00157 J**		< 0.005	< 0.005	< 0.005	< 0.005	**0.00197 J**	**0.00125 J**	**0.00104 J**	< 0.005		**0.00102 J**	**0.00542**	< 0.005
Vanadium	2020-04	mg/L			**0.00162 J**									< 0.005			
Vanadium	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00198 J**			< 0.005	< 0.005	< 0.005		< 0.005
Vanadium	2021-03	mg/L		**0.00129 J**			< 0.005			**0.00392 J**							
Vanadium	2021-08	mg/L	< 0.005	**0.00164 J**	**0.00139 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00165 J**			< 0.005	< 0.005	< 0.005		< 0.005
Vanadium	2022-03	mg/L		< 0.02			< 0.005			**0.0013 J**							
Vanadium	2022-08	mg/L	< 0.005	**0.00152 J**	**0.00123 J**	< 0.005	< 0.005	< 0.005	< 0.005	**0.00124 J**			< 0.005	< 0.005	< 0.005		< 0.005
Vanadium	2023-01	mg/L															
Vanadium	2023-03	mg/L		**0.00156 J**			< 0.005			~~**0.00154 J**~~							
Vanadium	2023-08	mg/L	< 0.005	**0.00179 J**	**0.0014 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005		**0.00137 J**
Vanadium	2024-03	mg/L		< 0.005			< 0.005			< 0.005							
Vanadium	2024-08	mg/L	< 0.005	**0.00153 J**	**0.00243 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	**0.00112 J**	< 0.005		**0.00112 J**
Vinyl Acetate	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Vinyl Acetate	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2								
Vinyl Acetate	2009-07	ug/L	< 2.00	< 2	< 2	< 2	< 2.00										
Vinyl Acetate	2009-09	ug/L	< 2.00	< 10.0	< 2.00	< 2.00	< 2.00										
Vinyl Acetate	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Vinyl Acetate	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Vinyl Acetate	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Vinyl Acetate	2011-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00								
Vinyl Acetate	2012-03	ug/L	< 10.0	< 2.00	< 2.00	< 2.00	< 10.0	< 10.0	< 10.0								
Vinyl Acetate	2012-09	ug/L	< 4.00	< 4.00	< 10.0	< 4.00	< 4.00	< 10.0	< 10.0								
Vinyl Acetate	2013-03	ug/L	< 2	< 2	< 50.0		< 2.00	< 2	< 2								
Vinyl Acetate	2013-05	ug/L															
Vinyl Acetate	2013-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Vinyl Acetate	2013-11	ug/L									< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Vinyl Acetate	2014-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Vinyl Acetate	2014-06	ug/L									< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Vinyl Acetate	2014-09	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2		
Vinyl Acetate	2015-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Vinyl Acetate	2015-09	ug/L		< 10		< 10	< 10	< 10	< 10								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 — **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C — **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Vinyl Acetate	2015-10	ug/L			< 10				< 10	< 10					< 10			< 10
Vinyl Acetate	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2016-06	ug/L			< 10	< 10												
Vinyl Acetate	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2017-11	ug/L																
Vinyl Acetate	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2018-06	ug/L																
Vinyl Acetate	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Vinyl Acetate	2018-09	ug/L					< 10						< 10	< 10				
Vinyl Acetate	2018-11	ug/L																
Vinyl Acetate	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2020-03	ug/L	< 10	< 10	< 10			< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2020-04	ug/L				< 10	< 10		< 10									
Vinyl Acetate	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2021-03	ug/L							< 10	< 10	< 10	< 10						
Vinyl Acetate	2021-08	ug/L	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2022-03	ug/L							< 10	< 10	< 10	< 10						
Vinyl Acetate	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2023-01	ug/L															< 10	
Vinyl Acetate	2023-03	ug/L							< 10	< 10	< 10	< 10					< 10	
Vinyl Acetate	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2024-03	ug/L							< 10	< 10	< 10	< 10						
Vinyl Acetate	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Chloride	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**3.3**	~~**6.17**~~	**2.07**	< 1	< 1	**1.11**	< 1	< 1	< 1	< 1
Vinyl Chloride	2009-03	ug/L	< 0.26	< 0.26	< 0.26	< 0.26	< 1	**1.14**	**2.61**	~~**3.88**~~	**2.32**	**0.26 J**	< 0.26	**0.33 J**	< 0.26	**0.51 J**	< 0.26	< 0.26
Vinyl Chloride	2009-07	ug/L	< 0.26	< 0.260		< 0.26		**0.44 J**	< 0.26	~~**4.18**~~	< 0.26	< 0.26	< 0.260	< 0.260	< 0.26	< 0.26	< 0.26	
Vinyl Chloride	2009-09	ug/L	< 0.24	< 0.240		< 1.00		**1.20**	**2.58**	~~< 5.00~~	**2.04**	< 0.24	**0.27 J**	**0.33 J**	< 0.24	**0.31 J**	< 0.24	
Vinyl Chloride	2010-03	ug/L	< 0.240	< 0.240	**0.370 J**	< 0.240	< 0.240	**0.270 J**	**2.81**	~~**3.35**~~	**1.62**	< 0.240	< 0.240	< 0.240	< 0.240	**0.260 J**	< 0.240	< 0.240
Vinyl Chloride	2010-09	ug/L	< 0.240	< 0.240	**0.290 J**	< 1.00	< 1.00	**0.870 J**	**2.19**	~~**2.79**~~	**1.39**	< 0.240	< 1.00	**0.640 J**	< 0.240	< 0.240	< 0.240	< 1.00
Vinyl Chloride	2011-03	ug/L	< 0.100	**0.110 J**	**0.130 J**	< 1.00	< 10.0	**0.300 J**	**2.56**	~~**3.32**~~	**1.73**	**0.150 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Vinyl Chloride	2011-09	ug/L	< 0.100	< 0.100	**0.200 J**	< 0.100	< 0.100	**0.830 J**	**2.10**	~~**1.59**~~	**0.840 J**	< 0.100	< 0.100	**0.190 J**	< 0.100	< 0.100	< 0.100	< 0.100
Vinyl Chloride	2012-03	ug/L	< 0.100	< 0.100	**0.130**	< 0.100	< 0.100	**0.740**	**1.44**	~~**1.32**~~	**1.79**	< 0.100	< 0.100	**0.130**	< 0.100	**0.190**	< 0.100	< 0.100
Vinyl Chloride	2012-09	ug/L	< 0.100	< 0.100	**0.190**	< 0.100	< 0.100	**0.290**	**2.02 J**	~~**1.94**~~	**1.21**	**0.130**	**0.220**	**0.360**	< 0.100	< 1.00	**0.140 J**	< 0.100
Vinyl Chloride	2013-03	ug/L	< 1.00	< 1		< 1.00	< 1.00		**1.55**	~~**1.33**~~	**0.797 J**	**0.35 J**	**0.17 J**	< 1	< 1.00	< 1.00	< 1	< 1
Vinyl Chloride	2013-05	ug/L			< 1.00			< 1.00										
Vinyl Chloride	2013-09	ug/L	**0.127 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.63**	~~**1.12**~~	**0.863 J**	< 1.00	**0.147 J**	**0.408 J**	< 1.00	**0.427 J**	< 1.00	< 1.00
Vinyl Chloride	2013-11	ug/L																
Vinyl Chloride	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**0.167 J**	**1.25**	~~< 1.00~~	**1.22**	< 1.00	< 1.00	**0.290 J**	< 1.00	**0.308 J**	< 1.00	< 1.00
Vinyl Chloride	2014-06	ug/L																
Vinyl Chloride	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	**0.38 J**	< 1	~~< 1~~	**0.708 J**	< 1	< 1	< 1	< 1	**0.814 J**	< 1	< 1
Vinyl Chloride	2015-03	ug/L	< 1	< 1	< 1.00	< 1.00	< 1.00	< 1.00	**1.08**	**1.17**	**0.745 J**	< 1	< 1.00	< 1.00	< 1	**0.436 J**	< 1	< 1.00
Vinyl Chloride	2015-09	ug/L	< 1	< 1		< 1	< 1	< 1			**0.726 J**	< 1	< 1	< 1		**0.512 J**	< 1	
Vinyl Chloride	2015-10	ug/L			< 1				**1.19**	**0.683 J**					< 1			< 1
Vinyl Chloride	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**1.29**	< 1	**0.765 J**	< 1	< 1	< 1	< 1	**0.648 J**	< 1	< 1
Vinyl Chloride	2016-06	ug/L			< 1	< 1												
Vinyl Chloride	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**1.15**	**0.771 J**	< 1	< 1	< 1	< 1	< 1	**0.698 J**	< 1	< 1
Vinyl Chloride	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**1.68**	< 1	< 1	< 1	< 1	< 1	< 1	**0.875 J**	< 1	< 1
Vinyl Chloride	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.835 J**	< 1	< 1	< 1	< 1	**0.197 J**	< 1	**0.357 J**	< 1	< 1
Vinyl Chloride	2017-11	ug/L																
Vinyl Chloride	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**1**	**0.845 J**	**0.359 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2018-06	ug/L																
Vinyl Chloride	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1	**1.14**	< 1	< 1	< 1			< 1	**0.669 J**	< 1	< 1
Vinyl Chloride	2018-09	ug/L					< 1						< 1	< 1				
Vinyl Chloride	2018-11	ug/L																

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Vinyl Acetate	2015-10	ug/L	< 10		< 10					< 10	< 10	< 10	< 10	< 10	< 10		
Vinyl Acetate	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Vinyl Acetate	2016-06	ug/L															
Vinyl Acetate	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Vinyl Acetate	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Vinyl Acetate	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Vinyl Acetate	2017-11	ug/L														< 10	< 10
Vinyl Acetate	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2018-06	ug/L														< 10	< 10
Vinyl Acetate	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10			
Vinyl Acetate	2018-09	ug/L													< 10	< 10	< 10
Vinyl Acetate	2018-11	ug/L														< 10	< 10
Vinyl Acetate	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2020-03	ug/L	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
Vinyl Acetate	2020-04	ug/L			< 10									< 10			
Vinyl Acetate	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Vinyl Acetate	2021-03	ug/L		< 10			< 10			< 10							
Vinyl Acetate	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Vinyl Acetate	2022-03	ug/L		< 10			< 10			< 10							
Vinyl Acetate	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Vinyl Acetate	2023-01	ug/L															
Vinyl Acetate	2023-03	ug/L		< 10			< 10			< 10							
Vinyl Acetate	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Vinyl Acetate	2024-03	ug/L		< 10			< 10			< 10							
Vinyl Acetate	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10		< 10
Vinyl Chloride	2008-08	ug/L	< 1	**2**	**9.81**	**1.18**	< 1	< 1	< 1								
Vinyl Chloride	2009-03	ug/L	**1.79**	**1.23**	**23.2**	**1.52**	< 0.26	< 0.26	< 0.26								
Vinyl Chloride	2009-07	ug/L	**1.25**	**1.59**	**19.8**	< 0.26	< 0.260										
Vinyl Chloride	2009-09	ug/L	**1.74**	< 5.00	**14.1**	**2.44**	< 0.240										
Vinyl Chloride	2010-03	ug/L	**1.88**	**1.20**	**15.7**	**2.56**	< 0.240	< 0.240	< 0.240								
Vinyl Chloride	2010-09	ug/L	**1.60**	**1.04**	**18.3**	**1.31**	< 0.240	< 1.00	< 1.00								
Vinyl Chloride	2011-03	ug/L	**1.69**	< 1.00	**16.9**	< 1.00	< 1.00	< 0.100	< 1.00								
Vinyl Chloride	2011-09	ug/L	**1.35**	**0.720 J**	**21.8**	**0.340 J**	< 0.100	**0.100 J**	< 0.100								
Vinyl Chloride	2012-03	ug/L	**1.17**	< 0.100	**20.5**	< 0.100	< 0.100	< 0.100	< 0.100								
Vinyl Chloride	2012-09	ug/L	**1.61 J**	**0.180 J**	**12.2**	< 1.00	< 0.100	< 0.100	< 0.100								
Vinyl Chloride	2013-03	ug/L	< 1	**0.111 J**	< 25.0		< 1.00	< 1	< 1								
Vinyl Chloride	2013-05	ug/L															
Vinyl Chloride	2013-09	ug/L	**0.817 J**	< 1.00	**7.82**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Vinyl Chloride	2013-11	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Vinyl Chloride	2014-03	ug/L	< 1.00	< 1.00	**8.20**	< 1.00	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Vinyl Chloride	2014-06	ug/L									< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Vinyl Chloride	2014-09	ug/L	**0.783 J**	**0.256 J**	**3.99**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Vinyl Chloride	2015-03	ug/L	**1.10**	< 1.00	**12.8**	< 1.00	< 1	< 1	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Vinyl Chloride	2015-09	ug/L		**0.21 J**		< 1	< 1	< 1	< 1								
Vinyl Chloride	2015-10	ug/L	**1.06**		**11.5**					< 1	< 1	< 1	< 1	< 1	< 1		
Vinyl Chloride	2016-03	ug/L	**1.56**	< 1	**5.78**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Vinyl Chloride	2016-06	ug/L															
Vinyl Chloride	2016-08	ug/L	**0.946 J**	< 1	**7.38**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Vinyl Chloride	2017-03	ug/L	**1.55**	< 1	**5.16**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Vinyl Chloride	2017-08	ug/L	**0.79 J**	< 1	**7.49**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		
Vinyl Chloride	2017-11	ug/L														< 1	< 1
Vinyl Chloride	2018-03	ug/L	**1.39**	**0.155 J**	**7.27**	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2018-06	ug/L														< 1	< 1
Vinyl Chloride	2018-08	ug/L	**1.05**	< 1	**9.4**	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1			
Vinyl Chloride	2018-09	ug/L													< 1	< 1	< 1
Vinyl Chloride	2018-11	ug/L														< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Vinyl Chloride	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**1.05**	< 1	< 1	< 1	< 1	< 1	< 1	**0.854 J**	< 1	< 1
Vinyl Chloride	2019-08	ug/L	**0.219 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.209 J**	**0.364 J**	< 1	< 1	**0.251 J**	< 1	< 1	< 1	< 1
Vinyl Chloride	2020-03	ug/L	< 1	< 1	**0.309 J**			< 1		**0.293 J**	**0.27 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2020-04	ug/L				< 1	< 1		**0.902 J**									
Vinyl Chloride	2020-08	ug/L	< 1	**0.369 J**	**0.225 J**	< 1	< 1	< 1	**1.05**	< 1	**0.262 J**	< 1	< 1	**0.219 J**	< 1	**0.728 J**	< 1	< 1
Vinyl Chloride	2021-03	ug/L							**0.695 J**	< 1	**0.182 J**	< 1						
Vinyl Chloride	2021-08	ug/L	< 1	< 1	**0.538 J+**	< 1	< 10	< 1	**0.724 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.229 J**	< 1	< 1
Vinyl Chloride	2022-03	ug/L							**0.684 J**	< 1	< 1	< 1						
Vinyl Chloride	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1		**0.628 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.491 J**	< 1	< 1
Vinyl Chloride	2023-01	ug/L															< 1	
Vinyl Chloride	2023-03	ug/L							**0.546 J**	< 1	< 1	< 1					< 1	
Vinyl Chloride	2023-08	ug/L	< 1	**0.655 J**	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2024-03	ug/L							< 1	< 1	< 1	< 1						
Vinyl Chloride	2024-08	ug/L	< 1	**0.693 J**	< 1	< 1	< 1		**0.589 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.493 J**	< 1	< 1
Xylenes, Total	2008-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2009-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2009-07	ug/L	< 3	< 3.00		< 3		< 3	< 3	< 3	< 3	< 3	< 3.00	< 3.00	< 3	< 3	< 3	
Xylenes, Total	2009-09	ug/L	< 3	< 3.00		< 3.00		< 3.00	< 3.00	< 15.0	< 3.00	< 3	< 3	< 3	< 3	< 3	< 3	
Xylenes, Total	2010-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2010-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2011-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 30.0	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2011-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2012-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2012-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2013-03	ug/L	< 3.00	< 3		< 3.00	< 3.00		< 3	**0.306 J**	**1.17 J**	< 3	< 3	< 3	< 3.00	< 3.00	< 3	**0.204 J**
Xylenes, Total	2013-05	ug/L			< 3.00			< 3.00										
Xylenes, Total	2013-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	**0.297 J**	< 3.00	**0.412 J**	**0.943 J**	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2013-11	ug/L																
Xylenes, Total	2014-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2014-06	ug/L																
Xylenes, Total	2014-09	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3 J	< 3 J	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2015-03	ug/L	< 3	< 3	**0.307 J**	< 3.00	< 3.00	< 3.00	**0.185 J**	**0.432 J**	**0.283 J**	< 3	< 3.00	< 3.00	< 3	< 3	< 3	< 3.00
Xylenes, Total	2015-09	ug/L	< 3	< 3		< 3	< 3	< 3			< 3	< 3	< 3	< 3		< 3	< 3	
Xylenes, Total	2015-10	ug/L			< 3				< 3	< 3					< 3			< 3
Xylenes, Total	2016-03	ug/L	< 3	**0.185 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	**0.181 J**	< 3	< 3	< 3
Xylenes, Total	2016-06	ug/L			**0.316 J**	< 3												
Xylenes, Total	2016-08	ug/L	< 3	**0.449 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	**0.226 J**	**0.204 J**	< 3
Xylenes, Total	2017-03	ug/L	**1.07 J**	< 3	**0.807 J**	< 3	< 3	< 3	**0.54 J**	**0.233 J**	**0.239 J**	**0.61 J**	< 3	< 3	**0.725 J**	< 3	< 3	< 3
Xylenes, Total	2017-08	ug/L	**0.338 J**	**1.45 J**	**1.29 J**	< 3	< 3	< 3	< 3	**0.259 J**	< 3	**0.245 J**	< 3	**0.674 J**	**0.638 J**	< 3	**1.77 J**	< 3
Xylenes, Total	2017-11	ug/L																
Xylenes, Total	2018-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	**0.238 J**	< 3	**0.151 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2018-06	ug/L																
Xylenes, Total	2018-08	ug/L	< 3	< 3	**0.586 J**	< 3		< 3	< 3	**0.419 J**	< 3	< 3			< 3	< 3	< 3	< 3
Xylenes, Total	2018-09	ug/L					< 3						< 3	< 3				
Xylenes, Total	2018-11	ug/L																
Xylenes, Total	2019-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	**2.99 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2019-08	ug/L	< 3	**0.51 J**	**0.435 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2020-03	ug/L	< 3	< 3	< 3			< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2020-04	ug/L				< 3	< 3		< 3									
Xylenes, Total	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2021-03	ug/L							< 3	< 3	< 3	< 3						
Xylenes, Total	2021-08	ug/L	< 3	< 3	< 3	< 3	< 30	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2022-03	ug/L							< 3	< 3	< 3	< 3						
Xylenes, Total	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2023-01	ug/L															< 3	
Xylenes, Total	2023-03	ug/L							< 3	**0.439 J**	< 3	< 3					< 3	
Xylenes, Total	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Analytical Data Summary - Upper Bedrock Appendix II
2024 Annual Water Quality Report

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Vinyl Chloride	2019-03	ug/L	**1.08**	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2020-03	ug/L	**0.709 J**	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1
Vinyl Chloride	2020-04	ug/L			**1.63**									< 1			
Vinyl Chloride	2020-08	ug/L	< 1	< 1	**5.79**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Vinyl Chloride	2021-03	ug/L		< 1			< 1			< 1							
Vinyl Chloride	2021-08	ug/L	**1.19 J+**	< 1	**8.14**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Vinyl Chloride	2022-03	ug/L		< 1			< 1			< 1							
Vinyl Chloride	2022-08	ug/L	**1.08**	< 1	**5.37**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Vinyl Chloride	2023-01	ug/L															
Vinyl Chloride	2023-03	ug/L		< 1			< 1			< 1							
Vinyl Chloride	2023-08	ug/L	**1.65**	< 1	**6.35**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Vinyl Chloride	2024-03	ug/L		< 1			< 1			< 1							
Vinyl Chloride	2024-08	ug/L	**1.15**	< 1	**0.759 J**	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1		< 1
Xylenes, Total	2008-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3								
Xylenes, Total	2009-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3								
Xylenes, Total	2009-07	ug/L	< 3.00	< 3	< 3	< 3	< 3.00										
Xylenes, Total	2009-09	ug/L	< 3.00	< 15.0	< 3.00	< 3.00	< 3.00										
Xylenes, Total	2010-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2010-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2011-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2011-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2012-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2012-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2013-03	ug/L	< 3	< 3	< 75.0		< 3.00	< 3	< 3								
Xylenes, Total	2013-05	ug/L															
Xylenes, Total	2013-09	ug/L	< 3.00	< 3.00	**0.131 J**	< 3.00	< 3.00	< 3.00	< 3.00		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2013-11	ug/L									< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2014-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2014-06	ug/L									< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2014-09	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3		
Xylenes, Total	2015-03	ug/L	< 3.00	< 3.00	**1.37 J**	< 3.00	< 3	< 3	< 3		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2015-09	ug/L		< 3		< 3	< 3	< 3	< 3								
Xylenes, Total	2015-10	ug/L	< 3		< 3					< 3	< 3	< 3	< 3	< 3	< 3		
Xylenes, Total	2016-03	ug/L	< 3	< 3	< 3	< 3	**0.262 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		
Xylenes, Total	2016-06	ug/L															
Xylenes, Total	2016-08	ug/L	< 3	< 3	< 3	< 3	< 3	**0.583 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3		
Xylenes, Total	2017-03	ug/L	< 3	< 3	**0.169 J**	< 3	**2.17 J**	< 3	**1.31 J**	< 3	< 3	< 3	< 3	< 3	< 3		
Xylenes, Total	2017-08	ug/L	< 3	**0.235 J**	**0.187 J**	**0.529 J**	**2.38 J**	**1.11 J**	**0.956 J**	< 3	< 3	< 3	< 3	< 3	**0.136 J**		
Xylenes, Total	2017-11	ug/L														< 3	< 3
Xylenes, Total	2018-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 30	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2018-06	ug/L														< 3	< 3
Xylenes, Total	2018-08	ug/L	< 3	< 3	< 3	< 3	**7.29**	< 3	< 3	< 3		< 3	< 3	< 3			
Xylenes, Total	2018-09	ug/L													< 3	< 3	< 3
Xylenes, Total	2018-11	ug/L					< 3									< 3	< 3
Xylenes, Total	2019-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2020-03	ug/L	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3
Xylenes, Total	2020-04	ug/L			< 3									< 3			
Xylenes, Total	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Xylenes, Total	2021-03	ug/L		< 3			< 3			< 3							
Xylenes, Total	2021-08	ug/L	< 3	**0.724 J**	**0.734 J**	**0.467 J**	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Xylenes, Total	2022-03	ug/L		< 3			< 3			< 3							
Xylenes, Total	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Xylenes, Total	2023-01	ug/L															
Xylenes, Total	2023-03	ug/L		< 3			< 3			< 3							
Xylenes, Total	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Upper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-1 (DwnGrad)	AW-2 (DwnGrad)	AW-3 (DwnGrad)	AW-4 (DwnGrad)	AW-5 (DwnGrad)	AW-7 (DwnGrad)	MW-12 (DwnGrad)	MW-13 (DwnGrad)	MW-16 (DwnGrad)	MW-17 (DwnGrad)	MW-20 (DwnGrad)	MW-21 (DwnGrad)	MW-23 (DwnGrad)	MW-24 (DwnGrad)	MW-26 (DwnGrad)	MW-28 (DwnGrad)
Xylenes, Total	2024-03	ug/L							< 3	< 3	< 3	< 3						
Xylenes, Total	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Zinc	2008-08	mg/L	**0.077**	< 0.05	< 0.05	< 0.05	< 0.05	~~0.45~~	**0.07**	< 0.05	< 0.05	< 0.05	~~0.129~~	**0.139**	**0.092**	< 0.05	< 0.05	< 0.05
Zinc	2009-03	mg/L	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	~~< 0.05~~	**0.121**	< 0.05	**0.071**	< 0.05	~~< 0.05~~	< 0.05	**0.103**	< 0.05	< 0.05	< 0.05
Zinc	2009-07	mg/L	< 0.05	**0.095**	< 0.05	< 0.05	< 0.05	~~0.486~~	< 0.05	< 0.05	**0.376**	< 0.05	~~0.157~~	**0.098**	**0.066**	< 0.05	< 0.05	< 0.05
Zinc	2009-09	mg/L	**0.116**	**0.0348**	**0.0264**	**0.0976**	**0.0645**	~~0.234~~	**0.510**	**0.141**	**0.202**	**0.26**	~~0.184~~	**0.151**	**0.127**	**0.044**	**0.0633**	**0.0363**
Zinc	2010-03	mg/L	**0.175**	**0.0431**	**0.0346**	**0.0905**	**0.0654**	~~0.383~~	**0.0675**	**0.110**	**0.181**	**0.105**	~~0.159~~	**0.102**	**0.175**	**0.0858**	**0.0771**	**0.0571**
Zinc	2010-09	mg/L	**0.0491**	**0.0419**	**0.0325**	**0.0367**	**0.0254**	~~0.779~~	**0.0328**	< 0.0200	**0.0641**	**0.0466**	~~0.198~~	**0.140**	**0.103**	**0.0402**	**0.0251**	**0.0688**
Zinc	2011-03	mg/L	**0.145**	**0.0472**	**0.0364**	**0.0303**	< 0.0200	~~0.654~~	**0.0519**	**0.0204**	**0.120**	< 0.0200	~~0.140~~	**0.0589**	**0.0661**	< 0.0200	**0.0213**	< 0.0200
Zinc	2011-09	mg/L	**0.0362**	**0.0497**	< 0.0200	< 0.0200	< 0.0200	~~0.406~~	< 0.0400	**0.0267**	**0.0416**	< 0.0200	~~0.149~~	**0.0981**	**0.112**	**0.0292**	< 0.0200	< 0.0200
Zinc	2012-03	mg/L	**0.0349**	< 0.0200	< 0.0200	< 0.0200	< 0.0200	~~0.248~~	< 0.0600	< 0.0200	**0.540**	< 0.0200	~~0.135~~	**0.0632**	**0.106**	< 0.0200	< 0.0200	< 0.0200
Zinc	2012-09	mg/L	**0.0551**	< 0.0200	< 0.0200	< 0.0200	< 0.0200	~~0.230~~	**0.0605**	**0.114**	**2.96**	**0.0404**	~~0.254~~	**0.0637**	**0.0662**	**0.0393**	**0.0640**	< 0.0200
Zinc	2013-03	mg/L	**0.172**	**0.0672**		**0.0574**	**0.0559**		**0.0997**	**0.0544**	**0.279**	**0.0495**	~~0.226~~	**0.0999**	**0.109**	**0.0507**	**0.161**	**0.0871**
Zinc	2013-05	mg/L			**0.0291**			~~0.296~~										
Zinc	2013-09	mg/L	**0.108**	**0.0218**	**0.0180 J**	**0.0791**	**0.0961**	~~0.502~~	**0.139**	**0.0476**	**0.184**	**0.0197 J**	~~0.235~~	**0.117**	**0.169**	**0.0419**	**0.0368**	**0.0477**
Zinc	2013-11	mg/L																
Zinc	2014-03	mg/L	< 0.0200	< 0.0200	**0.00962 J**	< 0.0200	< 0.0200	~~0.920~~	**0.0550**	**0.227**	**0.281**	**0.167**	~~0.131~~	**0.0492**	**0.107**	**0.0507**	< 0.0200	< 0.0200
Zinc	2014-06	mg/L																
Zinc	2014-09	mg/L	**0.0188**	**0.00802 J**	**0.0117**	< 0.01	< 0.01	~~0.421~~	**0.0306**	**0.155**	**0.0924**	< 0.01	~~0.148~~	**0.0788**	**0.101**	**0.00891 J**	**0.0325**	< 0.01
Zinc	2015-03	mg/L	**0.0354**	**0.0476**	**0.0319**	< 0.0100	< 0.0100	**0.0702**	**0.0766**	< 0.0100	**0.0887**	< 0.01	**0.103**	**0.0752**	**0.0549**	< 0.01	< 0.01	< 0.0100
Zinc	2015-09	mg/L	**0.0504**	**0.0139**		< 0.01	< 0.01	**0.0778**			**0.0309**	< 0.01	**0.108**	**0.0633**		< 0.01	< 0.01	
Zinc	2015-10	mg/L			**0.0305**				**0.011**	< 0.01					**0.0504**			< 0.01
Zinc	2016-03	mg/L	< 0.01	< 0.01	**0.0078 J**	< 0.01	< 0.01	**0.0134**	**0.0204**	< 0.01	**0.0658**	< 0.01	**0.0551**	**0.0511**	**0.0588**	**0.00802 J**	< 0.01	< 0.01
Zinc	2016-06	mg/L			**0.00689 J**	< 0.01												
Zinc	2016-08	mg/L	**0.058**	**0.00847 J**	< 0.01	< 0.01	< 0.01	**0.112**	**0.0337**	**0.00543 J**	**0.0689**	< 0.01	**0.0959**	**0.0665**	**0.0721**	**0.0233**	< 0.01	< 0.01
Zinc	2017-03	mg/L	**0.138**	< 0.02	**0.0125 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0321**	< 0.02	**0.0612**	**0.055**	**0.0986**	**0.0165 J**	< 0.02	< 0.02
Zinc	2017-08	mg/L	**0.028**	< 0.02	< 0.02	< 0.02	< 0.02	**0.0563**	**0.0123 J**	< 0.02	**0.0457**	< 0.02	**0.121**	**0.0828**	**0.0888**	< 0.02	< 0.02	< 0.02
Zinc	2017-11	mg/L																
Zinc	2018-03	mg/L	**0.0349**	**0.0563**	< 0.02	< 0.02	< 0.02	**0.0702**	< 0.02	< 0.02	**0.0437**	< 0.02	**0.113**	**0.0613**	**0.0531**	**0.0263**	< 0.02	< 0.02
Zinc	2018-06	mg/L																
Zinc	2018-08	mg/L	**0.0403**	**0.012 J**	< 0.02	< 0.02		**0.0539**	< 0.02	< 0.02	**0.0281**	< 0.02			**0.0547**	**0.012 J**	< 0.02	< 0.02
Zinc	2018-09	mg/L					< 0.02						**0.0311**	**0.0718**				
Zinc	2018-11	mg/L																
Zinc	2019-03	mg/L	**0.0404**	< 0.02	< 0.02	< 0.02	< 0.02	**0.11**	**0.0108 J**	< 0.02	**0.0742**	< 0.02	**0.0289**	**0.0329**	**0.0351**	< 0.02	< 0.02	< 0.02
Zinc	2019-08	mg/L	**0.0107 J**	**0.014 J**	< 0.02	< 0.02	< 0.02	**0.0219**	< 0.02	< 0.02	**0.0129 J**	< 0.02	**0.0983**	**0.0725**	**0.1**	**0.0202**	< 0.02	< 0.02
Zinc	2020-03	mg/L	**0.0442**	**0.0103 J**	< 0.02			**0.0226**		**0.018 J**	< 0.08	< 0.02	**0.0333**	**0.0897**	**0.113**	**0.0148 J**	< 0.02	< 0.02
Zinc	2020-04	mg/L				< 0.02	< 0.02		< 0.02									
Zinc	2020-08	mg/L	**0.0153 J**	< 0.02	< 0.02	< 0.02	< 0.02	**0.106**	< 0.02	< 0.02	**0.0254**	< 0.02	**0.101**	**0.0972**	**0.101**	**0.01 J**	< 0.02	< 0.02
Zinc	2021-03	mg/L							< 0.02	< 0.02	**0.0147 J**	< 0.02						
Zinc	2021-08	mg/L	**0.0146 J**	**0.0163 J**	< 0.02	< 0.02	< 0.02	**0.0575**	< 0.02	< 0.02	**0.0204**	< 0.02	**0.111**	**0.0804**	**0.0626**	< 0.02	< 0.02	< 0.02
Zinc	2022-03	mg/L							< 0.02	< 0.08	**0.0306**	< 0.02						
Zinc	2022-08	mg/L	**0.0197 J**	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	**0.0576**	< 0.02	**0.0638**	**0.0673**	**0.0708**	< 0.02	< 0.02	**0.0118 J**
Zinc	2023-01	mg/L															< 0.02	
Zinc	2023-03	mg/L							< 0.02	< 0.02	< 0.02	< 0.02					< 0.02	
Zinc	2023-08	mg/L	**0.0261**	**0.0312**	< 0.02	< 0.02	**0.00717 J**		< 0.02	< 0.02	**0.0537**	< 0.02	**0.082**	**0.0627**	**0.1**	**0.0138 J**	< 0.02	< 0.02
Zinc	2024-03	mg/L							< 0.02	< 0.02	**0.0594**	< 0.02						
Zinc	2024-08	mg/L	**0.0231**	**0.0136 J**	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	**0.0506**	< 0.02	**0.0334**	**0.0512**	**0.0668**	**0.0219**	< 0.02	**0.0121 J**

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Upper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-30 (DwnGrad)	MW-32 (DwnGrad)	MW-34 (DwnGrad)	MW-35 (DwnGrad)	MW-37 (Bkgrnd)	VP-3 (DwnGrad)	VP-4 (DwnGrad)	MW-101A (Bkgrnd)	MW-102A (Delin)	MW-103A (Delin)	MW-105A (Delin)	MW-106A (Delin)	MW-107A (Delin)	MW-108A (Delin)	MW-109A (Delin)
Xylenes, Total	2024-03	ug/L		< 3			< 3			< 3							
Xylenes, Total	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3		< 3
Zinc	2008-08	mg/L	~~**0.686**~~	< 0.05	< 0.05	< 0.05	< 0.05	**0.064**	< 0.05								
Zinc	2009-03	mg/L	~~< 0.05~~	**0.426**	**0.189**	< 0.05	< 0.05	< 0.05	< 0.05								
Zinc	2009-07	mg/L	~~**1.93**~~	< 0.05	< 0.05	**0.061**	< 0.05	< 0.05	< 0.05								
Zinc	2009-09	mg/L	~~**0.498**~~	< 0.0600	**0.0560**	**0.102**	**0.0499**	**0.0982**									
Zinc	2010-03	mg/L	~~**0.106**~~	< 0.0200	**0.0617**	**0.157**	**0.0720**	**0.145**	**0.0710**								
Zinc	2010-09	mg/L	~~**0.185**~~	< 0.0600	< 0.0200	**0.0588**	**0.0805**	**0.0221**	**0.0302**								
Zinc	2011-03	mg/L	~~**0.0781**~~	< 0.100	**0.0334**	**0.105**	< 0.0200	**0.0586**	**0.0500**								
Zinc	2011-09	mg/L	~~**0.0952**~~	< 0.0600	< 0.0400	< 0.0200	< 0.0200	**0.0219**	**0.113**								
Zinc	2012-03	mg/L	~~**0.475**~~	< 0.0600	< 0.0600	< 0.0200	< 0.0200	**0.0236**	**0.0305**								
Zinc	2012-09	mg/L	~~**0.128**~~	< 0.0600	< 0.0400	**0.0684**	< 0.0200	**0.114**	**0.0426**								
Zinc	2013-03	mg/L	~~**0.582**~~	**0.061**	**0.0499**		**0.0375**	**0.0628**	**0.061**								
Zinc	2013-05	mg/L															
Zinc	2013-09	mg/L	~~**0.230**~~	**0.0928**	**0.0719**	**0.147**	**0.0233**	**0.494**	**0.0339**	~~< 0.0200~~	< 0.0200	**0.0305**	< 0.0200	**0.00976 J**	**0.0329**		
Zinc	2013-11	mg/L								~~**0.147**~~	**0.0827**	**0.101**	**0.154**	**0.159**	**0.0939**		
Zinc	2014-03	mg/L	~~**0.206**~~	< 0.0200	**0.0142 J**	**0.199**	**0.0365**	**0.0379**	< 0.0200	~~< 0.0200 J~~	**0.00854 J**	**0.00826 J**	< 0.0200	**0.0212**	**0.0154 J**		
Zinc	2014-06	mg/L								~~< 0.0600~~	< 0.120	< 0.0600	< 0.0600	< 0.0200	< 0.0600		
Zinc	2014-09	mg/L	~~**0.46**~~	< 0.01	< 0.01	**0.0417**	**0.00837 J**	**0.0217**	**0.00894 J**	~~< 0.01~~	< 0.01	< 0.01	**0.0171**	**0.00763 J**	< 0.01		
Zinc	2015-03	mg/L	**0.0684**	< 0.0100	< 0.0100	**0.0141**	< 0.01	**0.0391**	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100		
Zinc	2015-09	mg/L		< 0.01		**0.0139**	< 0.01	< 0.01	< 0.01								
Zinc	2015-10	mg/L	**0.123**		< 0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		
Zinc	2016-03	mg/L	**0.113**	< 0.01	< 0.01	**0.0147**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		
Zinc	2016-06	mg/L															
Zinc	2016-08	mg/L	**0.103**	< 0.01	< 0.01	**0.0244**	< 0.01	**0.00525 J**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		
Zinc	2017-03	mg/L	**0.184**	< 0.02	< 0.02	**0.0209**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		
Zinc	2017-08	mg/L	**0.0658**	< 0.02	< 0.02	**0.0129 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		
Zinc	2017-11	mg/L														< 0.02	**0.0143 J**
Zinc	2018-03	mg/L	**0.17**	< 0.02	< 0.02	**0.0199 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	2018-06	mg/L														< 0.02	< 0.02
Zinc	2018-08	mg/L	**0.0756**	< 0.02	< 0.02	**0.0182 J**	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02			
Zinc	2018-09	mg/L													< 0.02	< 0.02	**0.0108 J**
Zinc	2018-11	mg/L														**0.0705**	< 0.02
Zinc	2019-03	mg/L	**0.129**	**0.0153 J**	< 0.02	**0.0288**	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0205**
Zinc	2019-08	mg/L	**0.079**	< 0.02	< 0.02	**0.0217**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	2020-03	mg/L	**0.0435**	< 0.02		**0.0333**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0285**		< 0.02	< 0.02	< 0.02
Zinc	2020-04	mg/L			< 0.02									< 0.02			
Zinc	2020-08	mg/L	**0.026**	< 0.02	< 0.02	**0.0209**	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	< 0.02		< 0.02
Zinc	2021-03	mg/L		< 0.02			< 0.02			< 0.02							
Zinc	2021-08	mg/L	**0.185**	< 0.02	< 0.02	**0.0291**	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	< 0.02		< 0.02
Zinc	2022-03	mg/L		< 0.08			< 0.02			< 0.02							
Zinc	2022-08	mg/L	**0.0532**	< 0.02	< 0.02	**0.0209**	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	< 0.02		< 0.02
Zinc	2023-01	mg/L															
Zinc	2023-03	mg/L		< 0.02			< 0.02			< 0.02							
Zinc	2023-08	mg/L	**0.0833**	< 0.02	< 0.02	**0.0324**	< 0.02	**0.00734 J**	< 0.02	< 0.02			< 0.02	< 0.02	< 0.02		< 0.02
Zinc	2024-03	mg/L		< 0.02			< 0.02			< 0.02							
Zinc	2024-08	mg/L	**0.158**	< 0.02	< 0.02	**0.0264**	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	< 0.02		< 0.02

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
1,1,1,2-Tetrachloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,1,1,2-Tetrachloroethane	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
1,1,1,2-Tetrachloroethane	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2012-09	ug/L	< 1.00	< 1.00	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2013-11	ug/L												
1,1,1,2-Tetrachloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2014-06	ug/L												
1,1,1,2-Tetrachloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
1,1,1,2-Tetrachloroethane	2015-06	ug/L						< 1	< 1					
1,1,1,2-Tetrachloroethane	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1,2-Tetrachloroethane	2015-10	ug/L			< 1	< 1							< 1	< 1
1,1,1,2-Tetrachloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2016-06	ug/L					< 1							
1,1,1,2-Tetrachloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2017-11	ug/L												
1,1,1,2-Tetrachloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2018-06	ug/L												
1,1,1,2-Tetrachloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2018-09	ug/L							< 1	< 1				
1,1,1,2-Tetrachloroethane	2018-11	ug/L											< 1	
1,1,1,2-Tetrachloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2019-04	ug/L												
1,1,1,2-Tetrachloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2020-04	ug/L	< 1		< 1									
1,1,1,2-Tetrachloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,1,2-Tetrachloroethane	2021-03	ug/L				< 1								
1,1,1,2-Tetrachloroethane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,1,2-Tetrachloroethane	2022-03	ug/L				< 1								
1,1,1,2-Tetrachloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,1,2-Tetrachloroethane	2023-03	ug/L				< 1								
1,1,1,2-Tetrachloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,1,2-Tetrachloroethane	2024-03	ug/L				< 1								
1,1,1,2-Tetrachloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,1-Trichloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,1,1-Trichloroethane	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
1,1,1-Trichloroethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
1,1,1-Trichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2013-11	ug/L												
1,1,1-Trichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,1-Trichloroethane	2014-06	ug/L												
1,1,1-Trichloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
1,1,1-Trichloroethane	2015-06	ug/L						< 1	< 1					
1,1,1-Trichloroethane	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
1,1,1-Trichloroethane	2015-10	ug/L			< 1	< 1							< 1	< 1
1,1,1-Trichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2016-06	ug/L					< 1							
1,1,1-Trichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2017-11	ug/L												
1,1,1-Trichloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2018-06	ug/L												
1,1,1-Trichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2018-09	ug/L							< 1	< 1				
1,1,1-Trichloroethane	2018-11	ug/L											< 1	
1,1,1-Trichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2019-04	ug/L												
1,1,1-Trichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2020-04	ug/L	< 1		< 1									
1,1,1-Trichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,1-Trichloroethane	2021-03	ug/L				< 1								
1,1,1-Trichloroethane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,1-Trichloroethane	2022-03	ug/L				< 1								
1,1,1-Trichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,1-Trichloroethane	2023-03	ug/L				< 1								
1,1,1-Trichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
1,1,1,2-Tetrachloroethane	2008-08	ug/L	< 1	< 1	< 1								
1,1,1,2-Tetrachloroethane	2009-03	ug/L	< 1	< 1	< 1								
1,1,1,2-Tetrachloroethane	2009-07	ug/L	< 1	< 1									
1,1,1,2-Tetrachloroethane	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1,2-Tetrachloroethane	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
1,1,1,2-Tetrachloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1,2-Tetrachloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1,2-Tetrachloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1,2-Tetrachloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1,2-Tetrachloroethane	2012-09	ug/L	< 1.00	< 1.00	< 2.00								
1,1,1,2-Tetrachloroethane	2013-03	ug/L	< 1	< 1	< 1.00								
1,1,1,2-Tetrachloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,1,1,2-Tetrachloroethane	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1,2-Tetrachloroethane	2015-06	ug/L											
1,1,1,2-Tetrachloroethane	2015-09	ug/L	< 1	< 1	< 1								
1,1,1,2-Tetrachloroethane	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
1,1,1,2-Tetrachloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,1,2-Tetrachloroethane	2016-06	ug/L											
1,1,1,2-Tetrachloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,1,2-Tetrachloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,1,2-Tetrachloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,1,2-Tetrachloroethane	2017-11	ug/L										< 1	< 1
1,1,1,2-Tetrachloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2018-06	ug/L										< 1	< 1
1,1,1,2-Tetrachloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
1,1,1,2-Tetrachloroethane	2018-09	ug/L									< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2018-11	ug/L										< 1	< 1
1,1,1,2-Tetrachloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,1,1,2-Tetrachloroethane	2019-04	ug/L											< 1
1,1,1,2-Tetrachloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2020-04	ug/L											
1,1,1,2-Tetrachloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2021-03	ug/L	< 1		< 1	< 1							< 1
1,1,1,2-Tetrachloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2022-03	ug/L	< 1		< 1	< 1							< 1
1,1,1,2-Tetrachloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2023-03	ug/L	< 1		< 1	< 1							< 1
1,1,1,2-Tetrachloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	2024-03	ug/L	< 1		< 1	< 1							< 1
1,1,1,2-Tetrachloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2008-08	ug/L	< 1	< 1	< 1								
1,1,1-Trichloroethane	2009-03	ug/L	< 1	< 1	< 1								
1,1,1-Trichloroethane	2009-07	ug/L	< 1	< 1									
1,1,1-Trichloroethane	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,1-Trichloroethane	2013-03	ug/L	< 1	< 1	< 1.00								
1,1,1-Trichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,1,1-Trichloroethane	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,1-Trichloroethane	2015-06	ug/L											
1,1,1-Trichloroethane	2015-09	ug/L	< 1	< 1	< 1								
1,1,1-Trichloroethane	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
1,1,1-Trichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,1-Trichloroethane	2016-06	ug/L											
1,1,1-Trichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,1-Trichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,1-Trichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,1-Trichloroethane	2017-11	ug/L										< 1	< 1
1,1,1-Trichloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2018-06	ug/L										< 1	< 1
1,1,1-Trichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
1,1,1-Trichloroethane	2018-09	ug/L									< 1	< 1	< 1
1,1,1-Trichloroethane	2018-11	ug/L										< 1	< 1
1,1,1-Trichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,1,1-Trichloroethane	2019-04	ug/L											< 1
1,1,1-Trichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2020-04	ug/L											
1,1,1-Trichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2021-03	ug/L	< 1		< 1	< 1							< 1
1,1,1-Trichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2022-03	ug/L	< 1		< 1	< 1							< 1
1,1,1-Trichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	2023-03	ug/L	< 1		< 1	< 1							< 1
1,1,1-Trichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
1,1,1-Trichloroethane	2024-03	ug/L				< 1								
1,1,1-Trichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,2,2-Tetrachloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,1,2,2-Tetrachloroethane	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
1,1,2,2-Tetrachloroethane	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2013-11	ug/L												
1,1,2,2-Tetrachloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2014-06	ug/L												
1,1,2,2-Tetrachloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
1,1,2,2-Tetrachloroethane	2015-06	ug/L						< 1	< 1					
1,1,2,2-Tetrachloroethane	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2,2-Tetrachloroethane	2015-10	ug/L			< 1	< 1							< 1	< 1
1,1,2,2-Tetrachloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2016-06	ug/L					< 1							
1,1,2,2-Tetrachloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2017-11	ug/L												
1,1,2,2-Tetrachloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2018-06	ug/L												
1,1,2,2-Tetrachloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2018-09	ug/L							< 1	< 1				
1,1,2,2-Tetrachloroethane	2018-11	ug/L											< 1	
1,1,2,2-Tetrachloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2019-04	ug/L												
1,1,2,2-Tetrachloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2020-04	ug/L	< 1		< 1									
1,1,2,2-Tetrachloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,2,2-Tetrachloroethane	2021-03	ug/L				< 1								
1,1,2,2-Tetrachloroethane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,2,2-Tetrachloroethane	2022-03	ug/L				< 1								
1,1,2,2-Tetrachloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,2,2-Tetrachloroethane	2023-03	ug/L				< 1								
1,1,2,2-Tetrachloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,2,2-Tetrachloroethane	2024-03	ug/L				< 1								
1,1,2,2-Tetrachloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,2-Trichloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,1,2-Trichloroethane	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
1,1,2-Trichloroethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
1,1,2-Trichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2013-11	ug/L												
1,1,2-Trichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1,2-Trichloroethane	2014-06	ug/L												
1,1,2-Trichloroethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
1,1,2-Trichloroethane	2015-06	ug/L						< 1	< 1					
1,1,2-Trichloroethane	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
1,1,2-Trichloroethane	2015-10	ug/L			< 1	< 1							< 1	< 1
1,1,2-Trichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2016-06	ug/L					< 1							
1,1,2-Trichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2017-11	ug/L												
1,1,2-Trichloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2018-06	ug/L												
1,1,2-Trichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2018-09	ug/L							< 1	< 1				
1,1,2-Trichloroethane	2018-11	ug/L											< 1	
1,1,2-Trichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2019-04	ug/L												
1,1,2-Trichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2020-04	ug/L	< 1		< 1									
1,1,2-Trichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,2-Trichloroethane	2021-03	ug/L				< 1								
1,1,2-Trichloroethane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,2-Trichloroethane	2022-03	ug/L				< 1								
1,1,2-Trichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
1,1,1-Trichloroethane	2024-03	ug/L	< 1		< 1	< 1							< 1
1,1,1-Trichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2008-08	ug/L	< 1	< 1	< 1								
1,1,2,2-Tetrachloroethane	2009-03	ug/L	< 1	< 1	< 1								
1,1,2,2-Tetrachloroethane	2009-07	ug/L	< 1	< 1									
1,1,2,2-Tetrachloroethane	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
1,1,2,2-Tetrachloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2,2-Tetrachloroethane	2013-03	ug/L	< 1	< 1	< 1.00								
1,1,2,2-Tetrachloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,1,2,2-Tetrachloroethane	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2,2-Tetrachloroethane	2015-06	ug/L											
1,1,2,2-Tetrachloroethane	2015-09	ug/L	< 1	< 1	< 1								
1,1,2,2-Tetrachloroethane	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
1,1,2,2-Tetrachloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,2,2-Tetrachloroethane	2016-06	ug/L											
1,1,2,2-Tetrachloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,2,2-Tetrachloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,2,2-Tetrachloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,2,2-Tetrachloroethane	2017-11	ug/L										< 1	< 1
1,1,2,2-Tetrachloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2018-06	ug/L										< 1	< 1
1,1,2,2-Tetrachloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
1,1,2,2-Tetrachloroethane	2018-09	ug/L									< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2018-11	ug/L										< 1	< 1
1,1,2,2-Tetrachloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,1,2,2-Tetrachloroethane	2019-04	ug/L											< 1
1,1,2,2-Tetrachloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2020-04	ug/L											
1,1,2,2-Tetrachloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2021-03	ug/L	< 1		< 1	< 1							< 1
1,1,2,2-Tetrachloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2022-03	ug/L	< 1		< 1	< 1							< 1
1,1,2,2-Tetrachloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2023-03	ug/L	< 1		< 1	< 1							< 1
1,1,2,2-Tetrachloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	2024-03	ug/L	< 1		< 1	< 1							< 1
1,1,2,2-Tetrachloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2008-08	ug/L	< 1	< 1	< 1								
1,1,2-Trichloroethane	2009-03	ug/L	< 1	< 1	< 1								
1,1,2-Trichloroethane	2009-07	ug/L	< 1	< 1									
1,1,2-Trichloroethane	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1,2-Trichloroethane	2013-03	ug/L	< 1	< 1	< 1.00								
1,1,2-Trichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,1,2-Trichloroethane	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1,2-Trichloroethane	2015-06	ug/L											
1,1,2-Trichloroethane	2015-09	ug/L	< 1	< 1	< 1								
1,1,2-Trichloroethane	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
1,1,2-Trichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,2-Trichloroethane	2016-06	ug/L											
1,1,2-Trichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,2-Trichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,2-Trichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,1,2-Trichloroethane	2017-11	ug/L										< 1	< 1
1,1,2-Trichloroethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2018-06	ug/L										< 1	< 1
1,1,2-Trichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
1,1,2-Trichloroethane	2018-09	ug/L									< 1	< 1	< 1
1,1,2-Trichloroethane	2018-11	ug/L										< 1	< 1
1,1,2-Trichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,1,2-Trichloroethane	2019-04	ug/L											< 1
1,1,2-Trichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2020-04	ug/L											
1,1,2-Trichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2021-03	ug/L	< 1		< 1	< 1							< 1
1,1,2-Trichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2022-03	ug/L	< 1		< 1	< 1							< 1
1,1,2-Trichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
1,1,2-Trichloroethane	2023-03	ug/L				< 1								
1,1,2-Trichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1,2-Trichloroethane	2024-03	ug/L				< 1								
1,1,2-Trichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,1-Dichloroethane	2008-08	ug/L	**6.14**	**2.46**	**1.74**	**21.4**	< 1	< 1	< 1	**13.2**	**2.08**	< 1	< 1	< 1
1,1-Dichloroethane	2009-03	ug/L	**4.12**	**2.15**	**1.66**	**21.9**	< 1	< 1	< 1	**8.01**	**1.1**	< 1	< 1	< 1
1,1-Dichloroethane	2009-07	ug/L	**21.1**	**1.89**	**1.7**	< 1		< 1	< 1.00	**12.3**	< 1			
1,1-Dichloroethane	2009-09	ug/L	**21.2**	**2.41**	**1.61**	**18.4**		< 1	< 1	**12**	< 1			
1,1-Dichloroethane	2010-03	ug/L	**20.2**	**6.51**	**1.82**	**15.9**	< 1.00	< 1.00	< 1.00	**11.6**	**1.06**	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2010-09	ug/L	**2.74**	**1.75**	**1.72**	**15.1**	< 1.00	< 1.00	< 1.00	**8.79**	< 1.00	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2011-03	ug/L	**1.38**	**1.67**	**1.04**	**15.7**	< 1.00	< 1.00	< 1.00	**12.6**	< 1.00	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2011-09	ug/L	**4.04**	**1.93**	**1.58**	**11.4**	< 1.00	< 1.00	< 1.00	**5.12**	< 1.00	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2012-03	ug/L	**1.14**	**1.77**	**1.49**	**13.6**	< 1.00	< 1.00	< 1.00	**6.51**	< 1.00	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2012-09	ug/L	< 1.00	**1.76**	**1.41**	**13.6**	< 1.00	< 1.00	< 1.00	**3.93**	< 1.00	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2013-03	ug/L	**1.58**	**1.73**	**1.41**	**12.9**	< 1	< 1	< 1	**7.74**	< 1.00	< 1	< 1	< 1
1,1-Dichloroethane	2013-09	ug/L	**3.42**	**1.70**	**1.71**	**11.3**	< 1.00	< 1.00	< 1.00	**4.21**	**0.594 J**	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2013-11	ug/L												
1,1-Dichloroethane	2014-03	ug/L	**5.05**	**13.8**	**1.36**	**4.77**	< 1.00	< 1.00	< 1.00	**2.48**	< 1.00	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	2014-06	ug/L												
1,1-Dichloroethane	2014-09	ug/L	**3.99**	**1.55**	**1.64**	**8.23**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	2015-03	ug/L	**2.74**	< 1	**0.534 J**	**7.94**	< 1	< 1	< 1.00	**2.16**	**0.793 J**	< 1	< 1.00	< 1.00
1,1-Dichloroethane	2015-06	ug/L						< 1	< 1					
1,1-Dichloroethane	2015-09	ug/L	**6.42**	< 1			< 1	< 1	< 1	**1.6**	**0.483 J**	< 1		
1,1-Dichloroethane	2015-10	ug/L			**1.33**	**8.58**							< 1	< 1
1,1-Dichloroethane	2016-03	ug/L	< 1	< 1	**1.11**	**5.15**	< 1	< 1	< 1	**3.23**	**1.66**	< 1	< 1	< 1
1,1-Dichloroethane	2016-06	ug/L					< 1							
1,1-Dichloroethane	2016-08	ug/L	**4.07**	< 1	**0.992 J**	**5.74**	< 1	< 1	< 1	**2.31**	**1.18**	< 1	< 1	< 1
1,1-Dichloroethane	2017-03	ug/L	**9.33**	< 1	**1.23**	**3.7**	< 1	< 1	< 1	**2.69**	< 1	< 1	< 1	< 1
1,1-Dichloroethane	2017-08	ug/L	**6.8**	< 1	**0.748 J**	**3.23**	< 1	< 1	< 1	**1.24**	**0.938 J**	< 1	< 1	< 1
1,1-Dichloroethane	2017-11	ug/L												
1,1-Dichloroethane	2018-03	ug/L	**6.18**	< 1	**1.08**	**5.11**	< 1	< 1	< 1	**1.54**	**1.17**	< 1	< 1	< 1
1,1-Dichloroethane	2018-06	ug/L												
1,1-Dichloroethane	2018-08	ug/L	**3.36**	< 1	**1.25**	**3.45**	< 1	< 1			**0.878 J**	< 1	< 1	< 1
1,1-Dichloroethane	2018-09	ug/L							< 1	**1.23**				
1,1-Dichloroethane	2018-11	ug/L											< 1	
1,1-Dichloroethane	2019-03	ug/L	**3.91**	**1.47**	**1.1**	**2.31**	< 1	< 1	< 1	**2.03**	**0.458 J**	< 1	< 1	< 1
1,1-Dichloroethane	2019-04	ug/L												
1,1-Dichloroethane	2019-08	ug/L	**4.84**	< 1	**1.4**	**1.19**	< 1	< 1	< 1	**2.03**	**0.951 J**	< 1	< 1	< 1
1,1-Dichloroethane	2020-03	ug/L		< 1		**0.959 J**	< 1	< 1	< 1	**2.73**	**0.993 J**	< 1	< 1	< 1
1,1-Dichloroethane	2020-04	ug/L	**3.57**		**0.911 J**									
1,1-Dichloroethane	2020-08	ug/L	**3.25**	< 1	**1.27**	**1.88**	< 1	< 1	< 1	**1.88**	**0.908 J**			< 1
1,1-Dichloroethane	2021-03	ug/L				**1.01**								
1,1-Dichloroethane	2021-08	ug/L	**1.86**	< 10	**1.13**	**0.798 J**	< 1	< 1	< 1	**1.32**	**0.791 J**			< 1
1,1-Dichloroethane	2022-03	ug/L				**1.29**								
1,1-Dichloroethane	2022-08	ug/L	**2.09**	< 1	**1.47**	**1.79**	< 1	< 1	< 1	**1.3**	< 1			< 1
1,1-Dichloroethane	2023-03	ug/L				**1.7**								
1,1-Dichloroethane	2023-08	ug/L	**1.29**	< 1	**0.857 J**	**1.7**	< 1	< 1	< 1	**1.09**	< 1			< 1
1,1-Dichloroethane	2024-03	ug/L				< 1								
1,1-Dichloroethane	2024-08	ug/L	**1.8**	< 1	**1.78**	**1.74**	< 1	< 1	< 1	**1.71**	< 1			< 1
1,1-Dichloroethene	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2009-07	ug/L	< 2	< 2	< 2	< 2		< 2	< 2.00	< 2.00	< 2			
1,1-Dichloroethene	2009-09	ug/L	< 2.00	< 2	< 2.00	< 10.0		< 2	< 2	< 2	< 2			
1,1-Dichloroethene	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2011-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2012-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2012-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2013-03	ug/L	< 2.00	< 2.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2.00	< 2	< 2	< 2
1,1-Dichloroethene	2013-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2013-11	ug/L												
1,1-Dichloroethene	2014-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,1-Dichloroethene	2014-06	ug/L												
1,1-Dichloroethene	2014-09	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2015-03	ug/L	< 2.00	< 2	< 2.00	< 2.00	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2.00	< 2.00
1,1-Dichloroethene	2015-06	ug/L						< 2	< 2					
1,1-Dichloroethene	2015-09	ug/L	< 2	< 2			< 2	< 2	< 2	< 2	< 2	< 2		
1,1-Dichloroethene	2015-10	ug/L			< 2	< 2							< 2	< 2
1,1-Dichloroethene	2016-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2016-06	ug/L					< 2							
1,1-Dichloroethene	2016-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2017-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2017-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2017-11	ug/L												
1,1-Dichloroethene	2018-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2018-06	ug/L												
1,1-Dichloroethene	2018-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
1,1-Dichloroethene	2018-09	ug/L							< 2	< 2				
1,1-Dichloroethene	2018-11	ug/L											< 2	
1,1-Dichloroethene	2019-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2019-04	ug/L												
1,1-Dichloroethene	2019-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2020-03	ug/L		< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	2020-04	ug/L	< 2		< 2									
1,1-Dichloroethene	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2
1,1-Dichloroethene	2021-03	ug/L				< 2								
1,1-Dichloroethene	2021-08	ug/L	< 2	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
1,1,2-Trichloroethane	2023-03	ug/L	< 1		< 1	< 1							< 1
1,1,2-Trichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	2024-03	ug/L	< 1		< 1	< 1							< 1
1,1,2-Trichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,1-Dichloroethane	2008-08	ug/L	< 1	**3.76**	< 1								
1,1-Dichloroethane	2009-03	ug/L	< 1	**3.32**	< 1								
1,1-Dichloroethane	2009-07	ug/L	< 1	**2.24**									
1,1-Dichloroethane	2009-09	ug/L	< 1.00	**3.09**	< 1.00								
1,1-Dichloroethane	2010-03	ug/L	< 1.00	**1.62**	< 1.00								
1,1-Dichloroethane	2010-09	ug/L	< 1.00	**1.45**	< 1.00								
1,1-Dichloroethane	2011-03	ug/L	< 1.00	**1.42**	< 1.00								
1,1-Dichloroethane	2011-09	ug/L	< 1.00	**1.09**	< 1.00								
1,1-Dichloroethane	2012-03	ug/L	< 1.00	**1.19**	< 1.00								
1,1-Dichloroethane	2012-09	ug/L	< 1.00	**1.24**	< 1.00								
1,1-Dichloroethane	2013-03	ug/L	< 1	**0.949 J**	< 1.00								
1,1-Dichloroethane	2013-09	ug/L	< 1.00	**0.693 J**	< 1.00		< 1.00	< 1.00	< 1.00	**1.97**	**0.635 J**		
1,1-Dichloroethane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	**1.88**	< 1.00		
1,1-Dichloroethane	2014-03	ug/L	< 1.00	**0.705 J**	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,1-Dichloroethane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	**2.03**	< 1.00		
1,1-Dichloroethane	2014-09	ug/L	< 1	**0.618 J**	< 1		< 1	< 1	< 1	**4.8**	**0.416 J**		
1,1-Dichloroethane	2015-03	ug/L	**0.231 J**	< 1.00	< 1		< 1.00	< 1.00	< 1.00	**3.02**	< 1.00		
1,1-Dichloroethane	2015-06	ug/L											
1,1-Dichloroethane	2015-09	ug/L	< 1	**0.348 J**	< 1								
1,1-Dichloroethane	2015-10	ug/L				< 1	< 1	< 1		**6.86**	< 1		
1,1-Dichloroethane	2016-03	ug/L	**0.325 J**	< 1	< 1	< 1	< 1	< 1		**6.41**	< 1		
1,1-Dichloroethane	2016-06	ug/L											
1,1-Dichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**4.63**	< 1		
1,1-Dichloroethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**3.72**	< 1		
1,1-Dichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**3.67**	**0.34 J**		
1,1-Dichloroethane	2017-11	ug/L										< 1	**1.58**
1,1-Dichloroethane	2018-03	ug/L	**0.402 J**	**0.235 J**	< 1	< 1	< 1	< 1		**3.13**	**0.294 J**	< 1	**1.46**
1,1-Dichloroethane	2018-06	ug/L										< 1	**1.42**
1,1-Dichloroethane	2018-08	ug/L	**0.229 J**	**0.26 J**	< 1	< 1		< 1		**2.73**			
1,1-Dichloroethane	2018-09	ug/L									< 1	< 1	**1.51**
1,1-Dichloroethane	2018-11	ug/L										< 1	**1.1**
1,1-Dichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	**4.19**	< 1	< 1	
1,1-Dichloroethane	2019-04	ug/L											**1.34**
1,1-Dichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**6.97**	**0.417 J**	< 1	**1.26**
1,1-Dichloroethane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**2.84**	< 1	< 1	**0.991 J**
1,1-Dichloroethane	2020-04	ug/L											
1,1-Dichloroethane	2020-08	ug/L	**0.231 J**	< 1	< 1	< 1	< 1			**6.47**	< 1	< 1	**1.15**
1,1-Dichloroethane	2021-03	ug/L	< 1		< 1	< 1							**1.14**
1,1-Dichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			**3.38**	< 1	< 1	**0.977 J**
1,1-Dichloroethane	2022-03	ug/L	< 1		< 1	< 1							**1.02**
1,1-Dichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			**3.06**	< 1	< 1	**1.07**
1,1-Dichloroethane	2023-03	ug/L	< 1		< 1	< 1							**0.959 J**
1,1-Dichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			**2.49**	< 1	< 1	**0.897 J**
1,1-Dichloroethane	2024-03	ug/L	< 1		< 1	< 1							< 1
1,1-Dichloroethane	2024-08	ug/L	**0.275 J**	< 1	< 1	< 1	< 1			**5.29**	< 1	< 1	**0.825 J**
1,1-Dichloroethene	2008-08	ug/L	< 2	< 2	< 2								
1,1-Dichloroethene	2009-03	ug/L	< 2	< 2	< 2								
1,1-Dichloroethene	2009-07	ug/L	< 2	< 2									
1,1-Dichloroethene	2009-09	ug/L	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2010-09	ug/L	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2011-03	ug/L	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2011-09	ug/L	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2012-03	ug/L	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2012-09	ug/L	< 2.00	< 2.00	< 2.00								
1,1-Dichloroethene	2013-03	ug/L	< 2	< 2	< 2.00								
1,1-Dichloroethene	2013-09	ug/L	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2013-11	ug/L					< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2014-03	ug/L	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2014-06	ug/L					< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2014-09	ug/L	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2		
1,1-Dichloroethene	2015-03	ug/L	< 2.00	< 2.00	< 2		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
1,1-Dichloroethene	2015-06	ug/L											
1,1-Dichloroethene	2015-09	ug/L	< 2	< 2	< 2								
1,1-Dichloroethene	2015-10	ug/L				< 2	< 2	< 2		< 2	< 2		
1,1-Dichloroethene	2016-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2		
1,1-Dichloroethene	2016-06	ug/L											
1,1-Dichloroethene	2016-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2		
1,1-Dichloroethene	2017-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2		
1,1-Dichloroethene	2017-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2		
1,1-Dichloroethene	2017-11	ug/L										< 2	< 2
1,1-Dichloroethene	2018-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2
1,1-Dichloroethene	2018-06	ug/L										< 2	< 2
1,1-Dichloroethene	2018-08	ug/L	< 2	< 2	< 2	< 2		< 2		< 2			
1,1-Dichloroethene	2018-09	ug/L									< 2	< 2	< 2
1,1-Dichloroethene	2018-11	ug/L										< 2	< 2
1,1-Dichloroethene	2019-03	ug/L	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	
1,1-Dichloroethene	2019-04	ug/L											< 2
1,1-Dichloroethene	2019-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2
1,1-Dichloroethene	2020-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2
1,1-Dichloroethene	2020-04	ug/L											
1,1-Dichloroethene	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
1,1-Dichloroethene	2021-03	ug/L	< 2		< 2	< 2							< 2
1,1-Dichloroethene	2021-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
1,1-Dichloroethene	2022-03	ug/L				< 2								
1,1-Dichloroethene	2022-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2
1,1-Dichloroethene	2023-03	ug/L				< 2								
1,1-Dichloroethene	2023-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2
1,1-Dichloroethene	2024-03	ug/L				< 2								
1,1-Dichloroethene	2024-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2
1,1-Dichloropropene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,1-Dichloropropene	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
1,1-Dichloropropene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,1-Dichloropropene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
1,1-Dichloropropene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
1,1-Dichloropropene	2012-09	ug/L		< 4.00										
1,1-Dichloropropene	2015-06	ug/L						< 1	< 1					
1,1-Dichloropropene	2015-09	ug/L	< 1	< 1				< 1	< 1	< 1	< 1			
1,1-Dichloropropene	2015-10	ug/L			< 1	< 1								
1,1-Dichloropropene	2016-03	ug/L												
1,1-Dichloropropene	2016-06	ug/L					< 1							
1,1-Dichloropropene	2016-08	ug/L					< 1							
1,1-Dichloropropene	2018-11	ug/L											< 1	
1,1-Dichloropropene	2019-03	ug/L											< 1	
1,1-Dichloropropene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
1,2,3-Trichloropropane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,2,3-Trichloropropane	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
1,2,3-Trichloropropane	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
1,2,3-Trichloropropane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2013-11	ug/L												
1,2,3-Trichloropropane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2,3-Trichloropropane	2014-06	ug/L												
1,2,3-Trichloropropane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
1,2,3-Trichloropropane	2015-06	ug/L						< 1	< 1					
1,2,3-Trichloropropane	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
1,2,3-Trichloropropane	2015-10	ug/L			< 1	< 1							< 1	< 1
1,2,3-Trichloropropane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2016-06	ug/L					< 1							
1,2,3-Trichloropropane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2017-11	ug/L												
1,2,3-Trichloropropane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2018-06	ug/L												
1,2,3-Trichloropropane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2018-09	ug/L							< 1	< 1				
1,2,3-Trichloropropane	2018-11	ug/L											< 1	
1,2,3-Trichloropropane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2019-04	ug/L												
1,2,3-Trichloropropane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2020-04	ug/L	< 1		< 1									
1,2,3-Trichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2,3-Trichloropropane	2021-03	ug/L				< 1								
1,2,3-Trichloropropane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2,3-Trichloropropane	2022-03	ug/L				< 1								
1,2,3-Trichloropropane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2,3-Trichloropropane	2023-03	ug/L				< 1								
1,2,3-Trichloropropane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2,3-Trichloropropane	2024-03	ug/L				< 1								
1,2,3-Trichloropropane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2,4,5-Tetrachlorobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
1,2,4,5-Tetrachlorobenzene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
1,2,4,5-Tetrachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2,4,5-Tetrachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1,2,4,5-Tetrachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1,2,4,5-Tetrachlorobenzene	2015-06	ug/L						< 10.5	< 11.1					
1,2,4,5-Tetrachlorobenzene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
1,2,4,5-Tetrachlorobenzene	2015-10	ug/L			< 10.3	< 10.5								
1,2,4,5-Tetrachlorobenzene	2016-03	ug/L												
1,2,4,5-Tetrachlorobenzene	2016-06	ug/L					< 11.4							
1,2,4,5-Tetrachlorobenzene	2016-08	ug/L					< 11							
1,2,4,5-Tetrachlorobenzene	2018-11	ug/L											< 11.6	
1,2,4,5-Tetrachlorobenzene	2019-03	ug/L											< 12.2	
1,2,4,5-Tetrachlorobenzene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
1,2,4-Trichlorobenzene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	2009-07	ug/L	< 5	< 5	< 5	< 5		< 5	< 5.00	< 5.00	< 5			
1,2,4-Trichlorobenzene	2009-09	ug/L	< 5.00	< 5	< 5.00	< 25.0		< 5	< 5	< 5	< 5			

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
1,1-Dichloroethene	2022-03	ug/L	< 2		< 2	< 2							< 2
1,1-Dichloroethene	2022-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
1,1-Dichloroethene	2023-03	ug/L	< 2		< 2	< 2							< 2
1,1-Dichloroethene	2023-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
1,1-Dichloroethene	2024-03	ug/L	< 2		< 2	< 2							< 2
1,1-Dichloroethene	2024-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
1,1-Dichloropropene	2008-08	ug/L	< 1	< 1	< 1								
1,1-Dichloropropene	2009-03	ug/L	< 1	< 1	< 1								
1,1-Dichloropropene	2009-07	ug/L	< 1	< 1									
1,1-Dichloropropene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1-Dichloropropene	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1-Dichloropropene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
1,1-Dichloropropene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,1-Dichloropropene	2012-09	ug/L											
1,1-Dichloropropene	2015-06	ug/L											
1,1-Dichloropropene	2015-09	ug/L	< 1	< 1	< 1								
1,1-Dichloropropene	2015-10	ug/L				< 1							
1,1-Dichloropropene	2016-03	ug/L			< 1	< 1							
1,1-Dichloropropene	2016-06	ug/L											
1,1-Dichloropropene	2016-08	ug/L			< 1	< 1							
1,1-Dichloropropene	2018-11	ug/L											
1,1-Dichloropropene	2019-03	ug/L											
1,1-Dichloropropene	2020-08	ug/L	< 1	< 1	< 1	< 1							
1,2,3-Trichloropropane	2008-08	ug/L	< 1	< 1	< 1								
1,2,3-Trichloropropane	2009-03	ug/L	< 1	< 1	< 1								
1,2,3-Trichloropropane	2009-07	ug/L	< 1	< 1									
1,2,3-Trichloropropane	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
1,2,3-Trichloropropane	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
1,2,3-Trichloropropane	2013-03	ug/L	< 1	< 1	< 1.00								
1,2,3-Trichloropropane	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,2,3-Trichloropropane	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2,3-Trichloropropane	2015-06	ug/L											
1,2,3-Trichloropropane	2015-09	ug/L	< 1	< 1	< 1								
1,2,3-Trichloropropane	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
1,2,3-Trichloropropane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2,3-Trichloropropane	2016-06	ug/L											
1,2,3-Trichloropropane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2,3-Trichloropropane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2,3-Trichloropropane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2,3-Trichloropropane	2017-11	ug/L										< 1	< 1
1,2,3-Trichloropropane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2018-06	ug/L										< 1	< 1
1,2,3-Trichloropropane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
1,2,3-Trichloropropane	2018-09	ug/L									< 1	< 1	< 1
1,2,3-Trichloropropane	2018-11	ug/L										< 1	< 1
1,2,3-Trichloropropane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,2,3-Trichloropropane	2019-04	ug/L											< 1
1,2,3-Trichloropropane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2020-04	ug/L											
1,2,3-Trichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2021-03	ug/L	< 1		< 1	< 1							< 1
1,2,3-Trichloropropane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2022-03	ug/L	< 1		< 1	< 1							< 1
1,2,3-Trichloropropane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2023-03	ug/L	< 1		< 1	< 1							< 1
1,2,3-Trichloropropane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	2024-03	ug/L	< 1		< 1	< 1							< 1
1,2,3-Trichloropropane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2,4,5-Tetrachlorobenzene	2008-08	ug/L	< 10	< 10	< 10								
1,2,4,5-Tetrachlorobenzene	2009-03	ug/L	< 10	< 10	< 10								
1,2,4,5-Tetrachlorobenzene	2009-07	ug/L	< 10	< 10	< 10.0								
1,2,4,5-Tetrachlorobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
1,2,4,5-Tetrachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
1,2,4,5-Tetrachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
1,2,4,5-Tetrachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
1,2,4,5-Tetrachlorobenzene	2015-06	ug/L											
1,2,4,5-Tetrachlorobenzene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
1,2,4,5-Tetrachlorobenzene	2015-10	ug/L				< 10.6							
1,2,4,5-Tetrachlorobenzene	2016-03	ug/L			< 10	< 10							
1,2,4,5-Tetrachlorobenzene	2016-06	ug/L											
1,2,4,5-Tetrachlorobenzene	2016-08	ug/L			< 11.1	< 11.5							
1,2,4,5-Tetrachlorobenzene	2018-11	ug/L											
1,2,4,5-Tetrachlorobenzene	2019-03	ug/L											
1,2,4,5-Tetrachlorobenzene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
1,2,4-Trichlorobenzene	2008-08	ug/L	< 5	< 5	< 5								
1,2,4-Trichlorobenzene	2009-03	ug/L	< 5	< 5	< 5								
1,2,4-Trichlorobenzene	2009-07	ug/L	< 5	< 5									
1,2,4-Trichlorobenzene	2009-09	ug/L	< 5.00	< 5.00	< 5.00								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
1,2,4-Trichlorobenzene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 10.0
1,2,4-Trichlorobenzene	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00				< 5.00				
1,2,4-Trichlorobenzene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00				< 5.00				
1,2,4-Trichlorobenzene	2012-09	ug/L		< 5.00										
1,2,4-Trichlorobenzene	2015-06	ug/L						< 5	< 5					
1,2,4-Trichlorobenzene	2015-09	ug/L	< 5	< 5				< 5	< 5	< 5	< 5			
1,2,4-Trichlorobenzene	2015-10	ug/L			< 5	< 5								
1,2,4-Trichlorobenzene	2016-03	ug/L												
1,2,4-Trichlorobenzene	2016-06	ug/L					< 5							
1,2,4-Trichlorobenzene	2016-08	ug/L					< 5							
1,2,4-Trichlorobenzene	2018-11	ug/L											**0.928 J**	
1,2,4-Trichlorobenzene	2019-03	ug/L											< 5	
1,2,4-Trichlorobenzene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			
1,2-Dibromo-3-chloropropane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
1,2-Dibromo-3-chloropropane	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
1,2-Dibromo-3-chloropropane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2013-03	ug/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2013-11	ug/L												
1,2-Dibromo-3-chloropropane	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2014-06	ug/L												
1,2-Dibromo-3-chloropropane	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	2015-03	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	2015-06	ug/L						< 10	< 10					
1,2-Dibromo-3-chloropropane	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
1,2-Dibromo-3-chloropropane	2015-10	ug/L			< 10	< 10							< 10	< 10
1,2-Dibromo-3-chloropropane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	2016-06	ug/L					< 10							
1,2-Dibromo-3-chloropropane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2017-11	ug/L												
1,2-Dibromo-3-chloropropane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2018-06	ug/L												
1,2-Dibromo-3-chloropropane	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2018-09	ug/L							< 5	< 5				
1,2-Dibromo-3-chloropropane	2018-11	ug/L											< 5	
1,2-Dibromo-3-chloropropane	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2019-04	ug/L												
1,2-Dibromo-3-chloropropane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2020-03	ug/L		< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2020-04	ug/L	< 5		< 5									
1,2-Dibromo-3-chloropropane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
1,2-Dibromo-3-chloropropane	2021-03	ug/L				< 5								
1,2-Dibromo-3-chloropropane	2021-08	ug/L	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
1,2-Dibromo-3-chloropropane	2022-03	ug/L				< 5								
1,2-Dibromo-3-chloropropane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
1,2-Dibromo-3-chloropropane	2023-03	ug/L				< 5								
1,2-Dibromo-3-chloropropane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
1,2-Dibromo-3-chloropropane	2024-03	ug/L				< 5								
1,2-Dibromo-3-chloropropane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
1,2-Dibromoethane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
1,2-Dibromoethane	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
1,2-Dibromoethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2013-03	ug/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
1,2-Dibromoethane	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2013-11	ug/L												
1,2-Dibromoethane	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromoethane	2014-06	ug/L												
1,2-Dibromoethane	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	2015-03	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0
1,2-Dibromoethane	2015-06	ug/L						< 10	< 10					
1,2-Dibromoethane	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
1,2-Dibromoethane	2015-10	ug/L			< 10	< 10							< 10	< 10
1,2-Dibromoethane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	2016-06	ug/L					< 10							
1,2-Dibromoethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2017-11	ug/L												
1,2-Dibromoethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2018-06	ug/L												
1,2-Dibromoethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dibromoethane	2018-09	ug/L							< 1	< 1				

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
1,2,4-Trichlorobenzene	2010-03	ug/L	< 5.00	< 5.00	< 5.00								
1,2,4-Trichlorobenzene	2010-09	ug/L	< 5.00	< 5.00	< 5.00								
1,2,4-Trichlorobenzene	2011-03	ug/L	< 5.00	< 5.00	< 5.00								
1,2,4-Trichlorobenzene	2012-09	ug/L											
1,2,4-Trichlorobenzene	2015-06	ug/L											
1,2,4-Trichlorobenzene	2015-09	ug/L	< 5	< 5	< 5								
1,2,4-Trichlorobenzene	2015-10	ug/L				< 5							
1,2,4-Trichlorobenzene	2016-03	ug/L			< 5	< 5							
1,2,4-Trichlorobenzene	2016-06	ug/L											
1,2,4-Trichlorobenzene	2016-08	ug/L			< 5	< 5							
1,2,4-Trichlorobenzene	2018-11	ug/L											
1,2,4-Trichlorobenzene	2019-03	ug/L											
1,2,4-Trichlorobenzene	2020-08	ug/L	< 5	< 5	< 5	< 5							
1,2-Dibromo-3-chloropropane	2008-08	ug/L	< 10	< 10	< 10								
1,2-Dibromo-3-chloropropane	2009-03	ug/L	< 10	< 10	< 10								
1,2-Dibromo-3-chloropropane	2009-07	ug/L	< 10	< 10									
1,2-Dibromo-3-chloropropane	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2010-09	ug/L	< 20.0	< 20.0	< 20.0								
1,2-Dibromo-3-chloropropane	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2011-09	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2012-09	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromo-3-chloropropane	2013-03	ug/L	< 10	< 10	< 10.0								
1,2-Dibromo-3-chloropropane	2013-09	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2013-11	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2014-03	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2014-06	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2014-09	ug/L	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
1,2-Dibromo-3-chloropropane	2015-03	ug/L	< 10.0	< 10.0	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromo-3-chloropropane	2015-06	ug/L											
1,2-Dibromo-3-chloropropane	2015-09	ug/L	< 10	< 10	< 10								
1,2-Dibromo-3-chloropropane	2015-10	ug/L				< 10	< 10	< 10		< 10	< 10		
1,2-Dibromo-3-chloropropane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
1,2-Dibromo-3-chloropropane	2016-06	ug/L											
1,2-Dibromo-3-chloropropane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
1,2-Dibromo-3-chloropropane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
1,2-Dibromo-3-chloropropane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
1,2-Dibromo-3-chloropropane	2017-11	ug/L										< 5	< 5
1,2-Dibromo-3-chloropropane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2018-06	ug/L										< 5	< 5
1,2-Dibromo-3-chloropropane	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5		< 5			
1,2-Dibromo-3-chloropropane	2018-09	ug/L									< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2018-11	ug/L										< 5	< 5
1,2-Dibromo-3-chloropropane	2019-03	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	
1,2-Dibromo-3-chloropropane	2019-04	ug/L											< 5
1,2-Dibromo-3-chloropropane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2020-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2020-04	ug/L											
1,2-Dibromo-3-chloropropane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2021-03	ug/L	< 5		< 5	< 5							< 5
1,2-Dibromo-3-chloropropane	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2022-03	ug/L	< 5		< 5	< 5							< 5
1,2-Dibromo-3-chloropropane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2023-03	ug/L	< 5		< 5	< 5							< 5
1,2-Dibromo-3-chloropropane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	2024-03	ug/L	< 5		< 5	< 5							< 5
1,2-Dibromo-3-chloropropane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
1,2-Dibromoethane	2008-08	ug/L	< 10	< 10	< 10								
1,2-Dibromoethane	2009-03	ug/L	< 10	< 10	< 10								
1,2-Dibromoethane	2009-07	ug/L	< 10	< 10									
1,2-Dibromoethane	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2011-09	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2012-09	ug/L	< 10.0	< 10.0	< 10.0								
1,2-Dibromoethane	2013-03	ug/L	< 10	< 10	< 10.0								
1,2-Dibromoethane	2013-09	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2013-11	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2014-03	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2014-06	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2014-09	ug/L	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
1,2-Dibromoethane	2015-03	ug/L	< 10.0	< 10.0	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
1,2-Dibromoethane	2015-06	ug/L											
1,2-Dibromoethane	2015-09	ug/L	< 10	< 10	< 10								
1,2-Dibromoethane	2015-10	ug/L				< 10	< 10	< 10		< 10	< 10		
1,2-Dibromoethane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
1,2-Dibromoethane	2016-06	ug/L											
1,2-Dibromoethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dibromoethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dibromoethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dibromoethane	2017-11	ug/L										< 1	< 1
1,2-Dibromoethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2-Dibromoethane	2018-06	ug/L										< 1	< 1
1,2-Dibromoethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
1,2-Dibromoethane	2018-09	ug/L									< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
1,2-Dibromoethane	2018-11	ug/L											< 1	
1,2-Dibromoethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2019-04	ug/L												
1,2-Dibromoethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	2020-04	ug/L	< 1		< 1									
1,2-Dibromoethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dibromoethane	2021-03	ug/L				< 1								
1,2-Dibromoethane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dibromoethane	2022-03	ug/L				< 1								
1,2-Dibromoethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dibromoethane	2023-03	ug/L				< 1								
1,2-Dibromoethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dibromoethane	2024-03	ug/L				< 1								
1,2-Dibromoethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichlorobenzene	2008-08	ug/L	< 1	**1.8**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2009-03	ug/L	< 1	**1.48**	< 1	**1.17**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2009-07	ug/L	< 1	**1.59**	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,2-Dichlorobenzene	2009-09	ug/L	< 1.00	**2.41**	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
1,2-Dichlorobenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	**1.48**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	2010-09	ug/L	< 1.00	**1.46**	< 1.00	**1.48**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	2011-03	ug/L	< 1.00	**1.36**	< 1.00	**1.20**	< 1.00	< 1.00	< 1.00	**1.28**	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	2011-09	ug/L	< 1.00	**1.50**	< 1.00	**1.39**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	2012-03	ug/L	< 1.00	**1.12**	< 1.00	**1.00**	< 1.00	< 1.00	< 1.00	**1.08**	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	2012-09	ug/L	< 1.00	**1.13**	< 1.00	**1.08**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	2013-03	ug/L	< 1.00	**0.620 J**	< 1	**1.57**	< 1	< 1	< 1	**0.889 J**	< 1.00	< 1	< 1	< 1
1,2-Dichlorobenzene	2013-09	ug/L	< 1.00	**1.50**	< 1.00	**1.68**	< 1.00	< 1.00	< 1.00	**1.05**	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	2013-11	ug/L												
1,2-Dichlorobenzene	2014-03	ug/L	< 1.00	**3.01**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**0.607 J**	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	2014-06	ug/L												
1,2-Dichlorobenzene	2014-09	ug/L	< 1	**1.71**	< 1	**1.99**	< 1	< 1	< 1	**0.934 J**	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2015-03	ug/L	< 1.00	< 1	< 1.00	**1.32**	< 1	< 1	< 1.00	**0.720 J**	< 1	< 1	< 1.00	< 1.00
1,2-Dichlorobenzene	2015-06	ug/L						< 1	< 1					
1,2-Dichlorobenzene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	**0.316 J**	< 1	< 1		
1,2-Dichlorobenzene	2015-10	ug/L			< 1	**1.52**							< 1	< 1
1,2-Dichlorobenzene	2016-03	ug/L	< 1	< 1	< 1	**2.13**	< 1	< 1	< 1	**1.06**	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2016-06	ug/L					< 1							
1,2-Dichlorobenzene	2016-08	ug/L	< 1	< 1	< 1	**1.74**	< 1	< 1	< 1	**0.594 J**	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2017-03	ug/L	< 1	< 1	< 1	**2.26**	< 1	< 1	< 1	**0.643 J**	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2017-08	ug/L	< 1	< 1	< 1	**1.44**	< 1	< 1	< 1	**0.704 J**	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2017-11	ug/L												
1,2-Dichlorobenzene	2018-03	ug/L	< 1	< 1	< 1	**1.44**	< 1	< 1	< 1	**0.435 J**	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2018-06	ug/L												
1,2-Dichlorobenzene	2018-08	ug/L	< 1	< 1	< 1	**1.26**	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2018-09	ug/L							< 1	**0.659 J**				
1,2-Dichlorobenzene	2018-11	ug/L											< 1	
1,2-Dichlorobenzene	2019-03	ug/L	< 1	**0.756 J**	< 1	**2.22**	< 1	< 1	< 1	**0.613 J**	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2019-04	ug/L												
1,2-Dichlorobenzene	2019-08	ug/L	< 1	< 1	< 1	**1.16**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2020-03	ug/L		< 1		**2**	< 1	< 1	< 1	**1.02**	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2020-04	ug/L	< 1		< 1									
1,2-Dichlorobenzene	2020-08	ug/L	< 1	< 1	< 1	**1.56**	< 1	< 1	< 1	**1.03**	< 1			< 1
1,2-Dichlorobenzene	2021-03	ug/L				**2.16**								
1,2-Dichlorobenzene	2021-08	ug/L	< 1	< 10	< 1	**1.58**	< 1	< 1	< 1	**0.857 J**	< 1			< 1
1,2-Dichlorobenzene	2022-03	ug/L				**1.08**								
1,2-Dichlorobenzene	2022-08	ug/L	< 1	< 1	< 1	**1.6**	< 1	< 1	< 1	**0.764 J**	< 1			< 1
1,2-Dichlorobenzene	2023-03	ug/L				**0.955 J**								
1,2-Dichlorobenzene	2023-08	ug/L	< 1	< 1	< 1	**0.495 J**	< 1	< 1	< 1	**0.648 J**	< 1			< 1
1,2-Dichlorobenzene	2024-03	ug/L				**1.96**								
1,2-Dichlorobenzene	2024-08	ug/L	< 1	< 1	< 1	**1.43**	< 1	< 1	< 1	**0.605 J**	< 1			< 1
1,2-Dichloroethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2009-03	ug/L	< 0.2	**0.28 J**	< 0.2	**1.29**	< 0.2	< 0.2	< 0.2	**0.31 J**	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	2009-07	ug/L	< 1 J	**0.28 J**	< 1	< 1 J		< 1	< 0.200	**0.470 J**	< 1			
1,2-Dichloroethane	2009-09	ug/L	< 1.00	**0.39 J**	< 1.00	< 5.00		< 0.315	< 0.315	**0.41 J**	< 0.315			
1,2-Dichloroethane	2010-03	ug/L	**0.330 J**	< 0.315	< 0.315	**1.08**	< 0.315	< 0.315	< 0.315	**0.360 J**	< 0.315	< 0.315	< 0.315	< 0.315
1,2-Dichloroethane	2010-09	ug/L	< 0.315	< 0.315	< 0.315	**1.09**	< 1.00	< 1.00	< 1.00	**0.370 J**	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	**0.890 J**	< 0.180	< 0.180	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloroethane	2011-09	ug/L	< 0.180	**0.310 J**	< 0.180	**0.710 J**	< 0.180	< 0.180	< 0.180	**0.210 J**	< 0.180	< 0.180	< 0.180	< 0.180
1,2-Dichloroethane	2012-03	ug/L	< 0.180	**0.250**	< 0.180	**0.900**	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180
1,2-Dichloroethane	2012-09	ug/L	< 0.180	< 1.00	< 0.180	**0.640**	< 0.180	< 0.180	< 0.180	**0.200**	< 0.180	< 0.180	< 0.180	< 0.180
1,2-Dichloroethane	2013-03	ug/L	< 1.00	< 1.00	< 1	**0.995 J**	< 1	< 1	< 1	**0.413 J**	< 1.00	< 1	< 1	< 1
1,2-Dichloroethane	2013-09	ug/L	< 1.00	**0.250 J**	< 1.00	**0.722 J**	< 1.00	< 1.00	< 1.00	**0.254 J**	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloroethane	2013-11	ug/L												
1,2-Dichloroethane	2014-03	ug/L	< 1.00	**0.940 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloroethane	2014-06	ug/L												
1,2-Dichloroethane	2014-09	ug/L	< 1	< 1	< 1	**0.443 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2015-03	ug/L	< 1.00	< 1	< 1.00	**0.315 J**	< 1	< 1	< 1.00	**0.231 J**	< 1	< 1	< 1.00	< 1.00
1,2-Dichloroethane	2015-06	ug/L						< 1	< 1					
1,2-Dichloroethane	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloroethane	2015-10	ug/L			< 1	**0.572 J**							< 1	< 1
1,2-Dichloroethane	2016-03	ug/L	< 1	< 1	< 1	**0.801 J**	< 1	< 1	< 1	**0.277 J**	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2016-06	ug/L					< 1							
1,2-Dichloroethane	2016-08	ug/L	< 1	< 1	< 1	**0.768 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2017-03	ug/L	**0.347 J**	< 1	< 1	**0.846 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2017-08	ug/L	**0.399 J**	< 1	< 1	**0.475 J**	< 1	< 1	< 1	**0.274 J**	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2017-11	ug/L												
1,2-Dichloroethane	2018-03	ug/L	**0.268 J**	< 1	< 1	**0.36 J**	< 1	< 1	< 1	**0.299 J**	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2018-06	ug/L												

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
1,2-Dibromoethane	2018-11	ug/L										< 1	< 1
1,2-Dibromoethane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,2-Dibromoethane	2019-04	ug/L											< 1
1,2-Dibromoethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2-Dibromoethane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2-Dibromoethane	2020-04	ug/L											
1,2-Dibromoethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dibromoethane	2021-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dibromoethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dibromoethane	2022-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dibromoethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dibromoethane	2023-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dibromoethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dibromoethane	2024-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dibromoethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2008-08	ug/L	< 1	< 1	< 1								
1,2-Dichlorobenzene	2009-03	ug/L	< 1	< 1	< 1								
1,2-Dichlorobenzene	2009-07	ug/L	< 1	< 1									
1,2-Dichlorobenzene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
1,2-Dichlorobenzene	2013-03	ug/L	< 1	**0.453 J**	< 1.00								
1,2-Dichlorobenzene	2013-09	ug/L	< 1.00	**0.457 J**	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2014-09	ug/L	< 1	**0.47 J**	< 1		< 1	< 1	< 1	< 1	< 1		
1,2-Dichlorobenzene	2015-03	ug/L	**0.152 J**	**0.352 J**	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichlorobenzene	2015-06	ug/L											
1,2-Dichlorobenzene	2015-09	ug/L	< 1	< 1	< 1								
1,2-Dichlorobenzene	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
1,2-Dichlorobenzene	2016-03	ug/L	< 1	**0.407 J**	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichlorobenzene	2016-06	ug/L											
1,2-Dichlorobenzene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichlorobenzene	2017-03	ug/L	< 1	**0.363 J**	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichlorobenzene	2017-08	ug/L	< 1	**0.319 J**	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichlorobenzene	2017-11	ug/L										< 1	**0.204 J**
1,2-Dichlorobenzene	2018-03	ug/L	< 1	**0.39 J**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	**0.331 J**
1,2-Dichlorobenzene	2018-06	ug/L										< 1	< 1
1,2-Dichlorobenzene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
1,2-Dichlorobenzene	2018-09	ug/L									< 1	< 1	< 1
1,2-Dichlorobenzene	2018-11	ug/L										< 1	< 1
1,2-Dichlorobenzene	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,2-Dichlorobenzene	2019-04	ug/L											**0.4 J**
1,2-Dichlorobenzene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2020-04	ug/L											
1,2-Dichlorobenzene	2020-08	ug/L	< 1	**0.391 J**	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2021-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichlorobenzene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2022-03	ug/L	< 1		< 1	< 1							**0.401 J**
1,2-Dichlorobenzene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2023-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichlorobenzene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	2024-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichlorobenzene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloroethane	2008-08	ug/L	< 1	< 1	< 1								
1,2-Dichloroethane	2009-03	ug/L	< 0.2	< 0.2	< 0.2								
1,2-Dichloroethane	2009-07	ug/L	< 1	< 1									
1,2-Dichloroethane	2009-09	ug/L	< 1.00	< 1.00	< 0.315								
1,2-Dichloroethane	2010-03	ug/L	< 0.315	< 0.315	< 0.315								
1,2-Dichloroethane	2010-09	ug/L	< 0.315	< 0.315	< 0.315								
1,2-Dichloroethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,2-Dichloroethane	2011-09	ug/L	< 0.180	< 0.180	< 0.180								
1,2-Dichloroethane	2012-03	ug/L	< 0.180	< 0.180	< 0.180								
1,2-Dichloroethane	2012-09	ug/L	< 0.180	< 0.180	< 0.180								
1,2-Dichloroethane	2013-03	ug/L	< 1	< 1	< 1.00								
1,2-Dichloroethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,2-Dichloroethane	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloroethane	2015-06	ug/L											
1,2-Dichloroethane	2015-09	ug/L	< 1	< 1	< 1								
1,2-Dichloroethane	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
1,2-Dichloroethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichloroethane	2016-06	ug/L											
1,2-Dichloroethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichloroethane	2017-03	ug/L	< 1	**0.185 J**	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichloroethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**0.196 J**	< 1		
1,2-Dichloroethane	2017-11	ug/L										< 1	< 1
1,2-Dichloroethane	2018-03	ug/L	< 1	**0.209 J**	< 1	< 1	< 1	< 1		**0.227 J**	< 1	< 1	< 1
1,2-Dichloroethane	2018-06	ug/L										< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
1,2-Dichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloroethane	2018-09	ug/L							< 1	< 1				
1,2-Dichloroethane	2018-11	ug/L											< 1	
1,2-Dichloroethane	2019-03	ug/L	< 1	< 1	< 1	**0.448 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2019-04	ug/L												
1,2-Dichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2020-04	ug/L	< 1		< 1									
1,2-Dichloroethane	2020-08	ug/L	**0.436 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichloroethane	2021-03	ug/L				< 1								
1,2-Dichloroethane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichloroethane	2022-03	ug/L				< 1								
1,2-Dichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichloroethane	2023-03	ug/L				< 1								
1,2-Dichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichloroethane	2024-03	ug/L				< 1								
1,2-Dichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichloropropane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2009-03	ug/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	**0.47 J**	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloropropane	2009-07	ug/L	< 0.4	< 0.4	< 0.4	< 0.4		< 0.4	< 1.00	< 1.00	< 0.4			
1,2-Dichloropropane	2009-09	ug/L	< 1.00	< 0.195	< 1.00	< 5.00		< 0.195	< 0.195	< 0.195	< 0.195			
1,2-Dichloropropane	2010-03	ug/L	**0.580 J**	**0.350 J**	< 0.195	**1.05**	< 0.195	< 0.195	< 0.195	**0.430 J**	< 0.195	< 0.195	< 0.195	< 0.195
1,2-Dichloropropane	2010-09	ug/L	< 0.195	< 0.195	< 0.195	**1.04**	< 1.00	< 1.00	< 1.00	< 0.195	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	**0.960 J**	< 0.110	< 0.110	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloropropane	2011-09	ug/L	< 0.110	< 0.110	< 0.110	**0.700 J**	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110
1,2-Dichloropropane	2012-03	ug/L	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110
1,2-Dichloropropane	2012-09	ug/L	< 0.110	< 1.00	< 0.110	**0.720**	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110
1,2-Dichloropropane	2013-03	ug/L	< 1.00	< 1.00	< 1	**0.978 J**	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
1,2-Dichloropropane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloropropane	2013-11	ug/L												
1,2-Dichloropropane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichloropropane	2014-06	ug/L												
1,2-Dichloropropane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
1,2-Dichloropropane	2015-06	ug/L						< 1	< 1					
1,2-Dichloropropane	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
1,2-Dichloropropane	2015-10	ug/L			< 1	< 1							< 1	< 1
1,2-Dichloropropane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2016-06	ug/L					< 1							
1,2-Dichloropropane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2017-11	ug/L												
1,2-Dichloropropane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2018-06	ug/L												
1,2-Dichloropropane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloropropane	2018-09	ug/L							< 1	< 1				
1,2-Dichloropropane	2018-11	ug/L											< 1	
1,2-Dichloropropane	2019-03	ug/L	< 1	< 1	< 1	**0.308 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2019-04	ug/L												
1,2-Dichloropropane	2019-08	ug/L	< 1	< 1	< 1	**0.352 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2020-03	ug/L		< 1		**0.297 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	2020-04	ug/L	< 1		< 1									
1,2-Dichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichloropropane	2021-03	ug/L				**0.281 J**								
1,2-Dichloropropane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichloropropane	2022-03	ug/L				< 1								
1,2-Dichloropropane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichloropropane	2023-03	ug/L				< 1								
1,2-Dichloropropane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,2-Dichloropropane	2024-03	ug/L				< 1								
1,2-Dichloropropane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
1,3,5-Trinitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,3,5-Trinitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,3,5-Trinitrobenzene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
1,3,5-Trinitrobenzene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
1,3,5-Trinitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3,5-Trinitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1,3,5-Trinitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1,3,5-Trinitrobenzene	2011-09	ug/L												
1,3,5-Trinitrobenzene	2012-03	ug/L												
1,3,5-Trinitrobenzene	2012-09	ug/L												
1,3,5-Trinitrobenzene	2013-03	ug/L												
1,3,5-Trinitrobenzene	2013-09	ug/L												
1,3,5-Trinitrobenzene	2015-06	ug/L						< 10.5	< 11.1					
1,3,5-Trinitrobenzene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
1,3,5-Trinitrobenzene	2015-10	ug/L			< 10.3	< 10.5								
1,3,5-Trinitrobenzene	2016-03	ug/L												
1,3,5-Trinitrobenzene	2016-06	ug/L					< 11.4							
1,3,5-Trinitrobenzene	2016-08	ug/L					< 11							
1,3,5-Trinitrobenzene	2018-11	ug/L											< 11.6	
1,3,5-Trinitrobenzene	2019-03	ug/L											< 12.2	
1,3,5-Trinitrobenzene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
1,3-Dichlorobenzene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	2009-03	ug/L	< 1	**1.26**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,3-Dichlorobenzene	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
1,3-Dichlorobenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
1,2-Dichloroethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
1,2-Dichloroethane	2018-09	ug/L									< 1	< 1	< 1
1,2-Dichloroethane	2018-11	ug/L										< 1	< 1
1,2-Dichloroethane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,2-Dichloroethane	2019-04	ug/L											< 1
1,2-Dichloroethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2-Dichloroethane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2-Dichloroethane	2020-04	ug/L											
1,2-Dichloroethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloroethane	2021-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichloroethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloroethane	2022-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichloroethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloroethane	2023-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichloroethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloroethane	2024-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichloroethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloropropane	2008-08	ug/L	< 1	< 1	< 1								
1,2-Dichloropropane	2009-03	ug/L	< 0.4	< 0.4	< 0.4								
1,2-Dichloropropane	2009-07	ug/L	< 0.4	< 0.4									
1,2-Dichloropropane	2009-09	ug/L	< 1.00	< 1.00	< 0.195								
1,2-Dichloropropane	2010-03	ug/L	< 0.195	< 0.195	< 0.195								
1,2-Dichloropropane	2010-09	ug/L	< 0.195	< 0.195	< 0.195								
1,2-Dichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,2-Dichloropropane	2011-09	ug/L	< 0.110	< 0.110	< 0.110								
1,2-Dichloropropane	2012-03	ug/L	< 0.110	< 0.110	< 0.110								
1,2-Dichloropropane	2012-09	ug/L	< 0.110	< 0.110	< 0.110								
1,2-Dichloropropane	2013-03	ug/L	< 1	< 1	< 1.00								
1,2-Dichloropropane	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
1,2-Dichloropropane	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,2-Dichloropropane	2015-06	ug/L											
1,2-Dichloropropane	2015-09	ug/L	< 1	< 1	< 1								
1,2-Dichloropropane	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
1,2-Dichloropropane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichloropropane	2016-06	ug/L											
1,2-Dichloropropane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichloropropane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichloropropane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,2-Dichloropropane	2017-11	ug/L										< 1	< 1
1,2-Dichloropropane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2-Dichloropropane	2018-06	ug/L										< 1	< 1
1,2-Dichloropropane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
1,2-Dichloropropane	2018-09	ug/L									< 1	< 1	< 1
1,2-Dichloropropane	2018-11	ug/L										< 1	< 1
1,2-Dichloropropane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,2-Dichloropropane	2019-04	ug/L											< 1
1,2-Dichloropropane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**0.314 J**	< 1	< 1	< 1
1,2-Dichloropropane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
1,2-Dichloropropane	2020-04	ug/L											
1,2-Dichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			**0.322 J**	< 1	< 1	< 1
1,2-Dichloropropane	2021-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichloropropane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloropropane	2022-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichloropropane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloropropane	2023-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichloropropane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
1,2-Dichloropropane	2024-03	ug/L	< 1		< 1	< 1							< 1
1,2-Dichloropropane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			**0.306 J**	< 1	< 1	< 1
1,3,5-Trinitrobenzene	2008-08	ug/L	< 10	< 10	< 10								
1,3,5-Trinitrobenzene	2009-03	ug/L	< 10	< 10	< 10								
1,3,5-Trinitrobenzene	2009-07	ug/L	< 10	< 10	< 10.0								
1,3,5-Trinitrobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
1,3,5-Trinitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
1,3,5-Trinitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
1,3,5-Trinitrobenzene	2011-03	ug/L	< 10.0	**1.72 J**	< 10.0								
1,3,5-Trinitrobenzene	2011-09	ug/L		< 10.0	< 10.0								
1,3,5-Trinitrobenzene	2012-03	ug/L		< 10.0	< 10.0								
1,3,5-Trinitrobenzene	2012-09	ug/L		< 10.0	< 10.0								
1,3,5-Trinitrobenzene	2013-03	ug/L		< 21.5	< 10.4								
1,3,5-Trinitrobenzene	2013-09	ug/L		< 10.9									
1,3,5-Trinitrobenzene	2015-06	ug/L											
1,3,5-Trinitrobenzene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
1,3,5-Trinitrobenzene	2015-10	ug/L				< 10.6							
1,3,5-Trinitrobenzene	2016-03	ug/L			< 10	< 10							
1,3,5-Trinitrobenzene	2016-06	ug/L											
1,3,5-Trinitrobenzene	2016-08	ug/L			< 11.1	< 11.5							
1,3,5-Trinitrobenzene	2018-11	ug/L											
1,3,5-Trinitrobenzene	2019-03	ug/L											
1,3,5-Trinitrobenzene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
1,3-Dichlorobenzene	2008-08	ug/L	< 1	< 1	< 1								
1,3-Dichlorobenzene	2009-03	ug/L	< 1	< 1	< 1								
1,3-Dichlorobenzene	2009-07	ug/L	< 1	< 1									
1,3-Dichlorobenzene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
1,3-Dichlorobenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
1,3-Dichlorobenzene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
1,3-Dichlorobenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
1,3-Dichlorobenzene	2011-09	ug/L		< 1.00										
1,3-Dichlorobenzene	2012-03	ug/L		< 1.00										
1,3-Dichlorobenzene	2012-09	ug/L		< 1.00	< 1.00									
1,3-Dichlorobenzene	2013-03	ug/L		< 1.00										
1,3-Dichlorobenzene	2013-09	ug/L		< 1.00										
1,3-Dichlorobenzene	2014-03	ug/L		< 1.00										
1,3-Dichlorobenzene	2014-09	ug/L		< 1										
1,3-Dichlorobenzene	2015-03	ug/L		< 1										
1,3-Dichlorobenzene	2015-06	ug/L						< 1	< 1					
1,3-Dichlorobenzene	2015-09	ug/L	< 1	< 1				< 1	< 1	< 1	< 1			
1,3-Dichlorobenzene	2015-10	ug/L			< 1	< 1								
1,3-Dichlorobenzene	2016-03	ug/L		< 1										
1,3-Dichlorobenzene	2016-06	ug/L					< 1							
1,3-Dichlorobenzene	2016-08	ug/L		< 1			< 1							
1,3-Dichlorobenzene	2017-03	ug/L		< 1										
1,3-Dichlorobenzene	2017-08	ug/L		< 1										
1,3-Dichlorobenzene	2018-03	ug/L		< 1										
1,3-Dichlorobenzene	2018-08	ug/L		< 1										
1,3-Dichlorobenzene	2018-11	ug/L											< 1	
1,3-Dichlorobenzene	2019-03	ug/L		< 1									< 1	
1,3-Dichlorobenzene	2019-08	ug/L		< 1										
1,3-Dichlorobenzene	2020-03	ug/L		< 1										
1,3-Dichlorobenzene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
1,3-Dichlorobenzene	2021-08	ug/L		< 10										
1,3-Dichlorobenzene	2022-08	ug/L		< 1										
1,3-Dichlorobenzene	2023-08	ug/L		< 1										
1,3-Dichlorobenzene	2024-08	ug/L		< 1										
1,3-Dichloropropane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,3-Dichloropropane	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
1,3-Dichloropropane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3-Dichloropropane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
1,3-Dichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
1,3-Dichloropropane	2012-09	ug/L		< 1.00										
1,3-Dichloropropane	2015-06	ug/L						< 1	< 1					
1,3-Dichloropropane	2015-09	ug/L	< 1	< 1				< 1	< 1	< 1	< 1			
1,3-Dichloropropane	2015-10	ug/L			< 1	< 1								
1,3-Dichloropropane	2016-03	ug/L												
1,3-Dichloropropane	2016-06	ug/L					< 1							
1,3-Dichloropropane	2016-08	ug/L					< 1							
1,3-Dichloropropane	2018-11	ug/L											< 1	
1,3-Dichloropropane	2019-03	ug/L											< 1	
1,3-Dichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
1,3-Dinitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,3-Dinitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,3-Dinitrobenzene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
1,3-Dinitrobenzene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
1,3-Dinitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3-Dinitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1,3-Dinitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1,3-Dinitrobenzene	2012-03	ug/L												
1,3-Dinitrobenzene	2013-03	ug/L												
1,3-Dinitrobenzene	2015-06	ug/L						< 10.5	< 11.1					
1,3-Dinitrobenzene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
1,3-Dinitrobenzene	2015-10	ug/L			< 10.3	< 10.5								
1,3-Dinitrobenzene	2016-03	ug/L												
1,3-Dinitrobenzene	2016-06	ug/L					< 11.4							
1,3-Dinitrobenzene	2016-08	ug/L					< 11							
1,3-Dinitrobenzene	2018-11	ug/L											< 11.6	
1,3-Dinitrobenzene	2019-03	ug/L											< 12.2	
1,3-Dinitrobenzene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
1,4-Dichlorobenzene	2008-08	ug/L	< 1	**1.77**	< 1	**2.53**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2009-03	ug/L	< 1	< 1	< 1	**3.71**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2009-07	ug/L	< 1	**1.05**	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
1,4-Dichlorobenzene	2009-09	ug/L	< 1.00	**1.83**	< 1.00	< 5.00		< 1	< 1	**1.01**	< 1			
1,4-Dichlorobenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	**8.21**	< 1.00	< 1.00	< 1.00	**1.26**	< 1.00	< 1.00	< 1.00	< 2.00
1,4-Dichlorobenzene	2010-09	ug/L	< 1.00	**1.11**	< 1.00	**5.82**	< 1.00	< 1.00	< 1.00	**1.10**	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	2011-03	ug/L	< 1.00	**1.21**	< 1.00	**4.99**	< 1.00	< 1.00	< 1.00	**1.76**	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	2011-09	ug/L	< 1.00	**1.23**	< 1.00	**4.92**	< 1.00	< 1.00	< 1.00	**1.55**	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	2012-03	ug/L	< 1.00	**1.09**	< 1.00	**3.87**	< 1.00	< 1.00	< 1.00	**1.56**	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	2012-09	ug/L	< 1.00	**1.01**	< 1.00	**3.82**	< 1.00	< 1.00	< 1.00	**1.08**	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	2013-03	ug/L	< 1.00	**0.733 J**	< 1	**5.94**	< 1	< 1	< 1	**1.66**	< 1.00	< 1	< 1	< 1
1,4-Dichlorobenzene	2013-09	ug/L	< 1.00	**1.29**	< 1.00	**5.94**	< 1.00	< 1.00	< 1.00	**1.66**	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	2013-11	ug/L												
1,4-Dichlorobenzene	2014-03	ug/L	< 1.00	**12.1**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.05**	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	2014-06	ug/L												
1,4-Dichlorobenzene	2014-09	ug/L	< 1	**1.48**	< 1	**8.16**	< 1	< 1	< 1	**1.59**	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2015-03	ug/L	< 1.00	< 1	< 1.00	**5.23**	< 1	< 1	< 1.00	**1.22**	< 1	< 1	< 1.00	< 1.00
1,4-Dichlorobenzene	2015-06	ug/L						< 1	< 1					
1,4-Dichlorobenzene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
1,4-Dichlorobenzene	2015-10	ug/L			< 1	< 1							< 1	< 1
1,4-Dichlorobenzene	2016-03	ug/L	< 1	< 1	< 1	**11.3**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2016-06	ug/L					< 1							
1,4-Dichlorobenzene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2017-03	ug/L	< 1	< 1	< 1	**12.9**	< 1	< 1	< 1	**1.47**	< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
1,3-Dichlorobenzene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
1,3-Dichlorobenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,3-Dichlorobenzene	2011-09	ug/L			< 1.00								
1,3-Dichlorobenzene	2012-03	ug/L			< 1.00								
1,3-Dichlorobenzene	2012-09	ug/L											
1,3-Dichlorobenzene	2013-03	ug/L			< 1.00								
1,3-Dichlorobenzene	2013-09	ug/L											
1,3-Dichlorobenzene	2014-03	ug/L			< 1.00								
1,3-Dichlorobenzene	2014-09	ug/L			< 1								
1,3-Dichlorobenzene	2015-03	ug/L			< 1								
1,3-Dichlorobenzene	2015-06	ug/L											
1,3-Dichlorobenzene	2015-09	ug/L	< 1	< 1	< 1								
1,3-Dichlorobenzene	2015-10	ug/L				< 1							
1,3-Dichlorobenzene	2016-03	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2016-06	ug/L											
1,3-Dichlorobenzene	2016-08	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2017-03	ug/L			< 1								
1,3-Dichlorobenzene	2017-08	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2018-03	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2018-08	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2018-11	ug/L											
1,3-Dichlorobenzene	2019-03	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2019-08	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2020-03	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2020-08	ug/L	< 1	< 1	< 1	< 1							
1,3-Dichlorobenzene	2021-08	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2022-08	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2023-08	ug/L			< 1	< 1							
1,3-Dichlorobenzene	2024-08	ug/L			< 1	< 1							
1,3-Dichloropropane	2008-08	ug/L	< 1	< 1	< 1								
1,3-Dichloropropane	2009-03	ug/L	< 1	< 1	< 1								
1,3-Dichloropropane	2009-07	ug/L	< 1	< 1									
1,3-Dichloropropane	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
1,3-Dichloropropane	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
1,3-Dichloropropane	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
1,3-Dichloropropane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
1,3-Dichloropropane	2012-09	ug/L											
1,3-Dichloropropane	2015-06	ug/L											
1,3-Dichloropropane	2015-09	ug/L	< 1	< 1	< 1								
1,3-Dichloropropane	2015-10	ug/L				< 1							
1,3-Dichloropropane	2016-03	ug/L			< 1	< 1							
1,3-Dichloropropane	2016-06	ug/L											
1,3-Dichloropropane	2016-08	ug/L			< 1	< 1							
1,3-Dichloropropane	2018-11	ug/L											
1,3-Dichloropropane	2019-03	ug/L											
1,3-Dichloropropane	2020-08	ug/L	< 1	< 1	< 1	< 1							
1,3-Dinitrobenzene	2008-08	ug/L	< 10	< 10	< 10								
1,3-Dinitrobenzene	2009-03	ug/L	< 10	< 10	< 10								
1,3-Dinitrobenzene	2009-07	ug/L	< 10	< 10	< 10.0								
1,3-Dinitrobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
1,3-Dinitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
1,3-Dinitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
1,3-Dinitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
1,3-Dinitrobenzene	2012-03	ug/L			< 10.0								
1,3-Dinitrobenzene	2013-03	ug/L			< 10.4								
1,3-Dinitrobenzene	2015-06	ug/L											
1,3-Dinitrobenzene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
1,3-Dinitrobenzene	2015-10	ug/L				< 10.6							
1,3-Dinitrobenzene	2016-03	ug/L			< 10	< 10							
1,3-Dinitrobenzene	2016-06	ug/L											
1,3-Dinitrobenzene	2016-08	ug/L			< 11.1	< 11.5							
1,3-Dinitrobenzene	2018-11	ug/L											
1,3-Dinitrobenzene	2019-03	ug/L											
1,3-Dinitrobenzene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
1,4-Dichlorobenzene	2008-08	ug/L	**1.15**	**3.55**	< 1								
1,4-Dichlorobenzene	2009-03	ug/L	< 1	**3**	< 1								
1,4-Dichlorobenzene	2009-07	ug/L	< 1	< 1									
1,4-Dichlorobenzene	2009-09	ug/L	< 1.00	**4.04**	< 1.00								
1,4-Dichlorobenzene	2010-03	ug/L	< 1.00	**2.70**	< 1.00								
1,4-Dichlorobenzene	2010-09	ug/L	< 1.00	**3.21**	< 1.00								
1,4-Dichlorobenzene	2011-03	ug/L	< 1.00	**2.83**	< 1.00								
1,4-Dichlorobenzene	2011-09	ug/L	< 1.00	**2.96**	< 1.00								
1,4-Dichlorobenzene	2012-03	ug/L	< 1.00	**2.33**	< 1.00								
1,4-Dichlorobenzene	2012-09	ug/L	< 1.00	**2.76**	< 1.00								
1,4-Dichlorobenzene	2013-03	ug/L	**0.491 J**	**2.48**	< 1.00								
1,4-Dichlorobenzene	2013-09	ug/L	**0.857 J**	**2.76**	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2014-09	ug/L	**0.8 J**	**2.77**	< 1		< 1	< 1	< 1	< 1	< 1		
1,4-Dichlorobenzene	2015-03	ug/L	**0.889 J**	**1.68**	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
1,4-Dichlorobenzene	2015-06	ug/L											
1,4-Dichlorobenzene	2015-09	ug/L	< 1	**1.97**	< 1								
1,4-Dichlorobenzene	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
1,4-Dichlorobenzene	2016-03	ug/L	**0.803 J**	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
1,4-Dichlorobenzene	2016-06	ug/L											
1,4-Dichlorobenzene	2016-08	ug/L	< 1	**1.54**	< 1	< 1	< 1	< 1		< 1	< 1		
1,4-Dichlorobenzene	2017-03	ug/L	**0.641 J**	**1.97**	< 1	< 1	< 1	< 1		**0.429 J**	< 1		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
1,4-Dichlorobenzene	2017-08	ug/L	< 1	< 1	< 1	**7.86**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2017-11	ug/L												
1,4-Dichlorobenzene	2018-03	ug/L	< 1	< 1	< 1	**7.22**	< 1	< 1	< 1	**1.13**	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2018-06	ug/L												
1,4-Dichlorobenzene	2018-08	ug/L	< 1	< 1	< 1	**6.5**	< 1	< 1			< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2018-09	ug/L							< 1	**1.13**				
1,4-Dichlorobenzene	2018-11	ug/L											< 1	
1,4-Dichlorobenzene	2019-03	ug/L	< 1	< 1	< 1	**11.8**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2019-04	ug/L												
1,4-Dichlorobenzene	2019-08	ug/L	< 1	< 1	< 1	**10.2**	< 1	< 1	< 1	**1.14**	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2020-03	ug/L		< 1		**11**	< 1	< 1	< 1	**2.31**	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	2020-04	ug/L	< 1		< 1									
1,4-Dichlorobenzene	2020-08	ug/L	< 1	< 1	< 1	**9**	< 1	< 1	< 1	**2.27**	< 1			< 1
1,4-Dichlorobenzene	2021-03	ug/L				**13.1**								
1,4-Dichlorobenzene	2021-08	ug/L	< 1	< 10	< 1	**9.6**	< 1	< 1	< 1	**1.97**	< 1			< 1
1,4-Dichlorobenzene	2022-03	ug/L				**6.7**								
1,4-Dichlorobenzene	2022-08	ug/L	< 1	< 1	< 1	**8.47**	< 1	< 1	< 1	**1.57**	< 1			< 1
1,4-Dichlorobenzene	2023-03	ug/L				**5.39**								
1,4-Dichlorobenzene	2023-08	ug/L	< 1	< 1	< 1	**7.04**	< 1	< 1	< 1	< 1	< 1			< 1
1,4-Dichlorobenzene	2024-03	ug/L				**12.1**								
1,4-Dichlorobenzene	2024-08	ug/L	< 1	< 1	< 1	**7.57**	< 1	< 1	< 1	**1.36**	< 1			< 1
1,4-Naphthoquinone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Naphthoquinone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Naphthoquinone	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
1,4-Naphthoquinone	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
1,4-Naphthoquinone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,4-Naphthoquinone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1,4-Naphthoquinone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1,4-Naphthoquinone	2015-06	ug/L						< 10.5	< 11.1					
1,4-Naphthoquinone	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
1,4-Naphthoquinone	2015-10	ug/L			< 10.3	< 10.5								
1,4-Naphthoquinone	2016-03	ug/L												
1,4-Naphthoquinone	2016-06	ug/L					< 11.4							
1,4-Naphthoquinone	2016-08	ug/L					< 11							
1,4-Naphthoquinone	2018-11	ug/L											< 11.6	
1,4-Naphthoquinone	2019-03	ug/L											< 12.2	
1,4-Naphthoquinone	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
1-Naphthylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1-Naphthylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1-Naphthylamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
1-Naphthylamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
1-Naphthylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1-Naphthylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1-Naphthylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
1-Naphthylamine	2015-06	ug/L						< 10.5	< 11.1					
1-Naphthylamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
1-Naphthylamine	2015-10	ug/L			< 10.3	< 10.5								
1-Naphthylamine	2016-03	ug/L												
1-Naphthylamine	2016-06	ug/L					< 11.4							
1-Naphthylamine	2016-08	ug/L					< 11							
1-Naphthylamine	2018-11	ug/L											< 11.6	
1-Naphthylamine	2019-03	ug/L											< 12.2	
1-Naphthylamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2,2-Dichloropropane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
2,2-Dichloropropane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
2,2-Dichloropropane	2009-07	ug/L	< 4	< 4	< 4	< 4		< 4	< 4.00	< 4.00	< 4			
2,2-Dichloropropane	2009-09	ug/L	< 4.00	< 4	< 4.00	< 20.0		< 4	< 4	< 4	< 4			
2,2-Dichloropropane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
2,2-Dichloropropane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00				< 4.00				
2,2-Dichloropropane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00				< 4.00				
2,2-Dichloropropane	2012-09	ug/L		< 4.00										
2,2-Dichloropropane	2015-06	ug/L						< 4	< 4					
2,2-Dichloropropane	2015-09	ug/L	< 4	< 4				< 4	< 4	< 4	< 4			
2,2-Dichloropropane	2015-10	ug/L			< 4	< 4								
2,2-Dichloropropane	2016-03	ug/L												
2,2-Dichloropropane	2016-06	ug/L					< 4							
2,2-Dichloropropane	2016-08	ug/L					< 4							
2,2-Dichloropropane	2018-11	ug/L											< 4	
2,2-Dichloropropane	2019-03	ug/L											< 4	
2,2-Dichloropropane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			
2,2'-oxybis(1-Chloropropane)	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**10.9**	< 10	< 10	< 10	< 10
2,2'-oxybis(1-Chloropropane)	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**8.6 J**	< 10	< 10	< 10	< 10
2,2'-oxybis(1-Chloropropane)	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2,2'-oxybis(1-Chloropropane)	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2,2'-oxybis(1-Chloropropane)	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,2'-oxybis(1-Chloropropane)	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,2'-oxybis(1-Chloropropane)	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,2'-oxybis(1-Chloropropane)	2011-09	ug/L								< 10.0				
2,2'-oxybis(1-Chloropropane)	2012-03	ug/L								< 10.0				
2,2'-oxybis(1-Chloropropane)	2012-09	ug/L								< 10.0				
2,2'-oxybis(1-Chloropropane)	2013-03	ug/L								< 10.9				
2,2'-oxybis(1-Chloropropane)	2013-09	ug/L								< 10.3				
2,2'-oxybis(1-Chloropropane)	2014-03	ug/L								< 10.5				
2,2'-oxybis(1-Chloropropane)	2014-09	ug/L								< 10				
2,2'-oxybis(1-Chloropropane)	2015-03	ug/L								< 10.8				
2,2'-oxybis(1-Chloropropane)	2015-06	ug/L						< 10.5	< 11.1					
2,2'-oxybis(1-Chloropropane)	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2,2'-oxybis(1-Chloropropane)	2015-10	ug/L			< 10.3	< 10.5								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
1,4-Dichlorobenzene	2017-08	ug/L	**0.787 J**	**1.85**	< 1	< 1	< 1	< 1		< 1	< 1		
1,4-Dichlorobenzene	2017-11	ug/L										< 1	**1.07**
1,4-Dichlorobenzene	2018-03	ug/L	**0.957 J**	**2.02**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	**1.89**
1,4-Dichlorobenzene	2018-06	ug/L										< 1	**1.42**
1,4-Dichlorobenzene	2018-08	ug/L	< 1	**2.26**	< 1	< 1		< 1		< 1			
1,4-Dichlorobenzene	2018-09	ug/L									< 1	< 1	**1.72**
1,4-Dichlorobenzene	2018-11	ug/L										< 1	**1.37**
1,4-Dichlorobenzene	2019-03	ug/L	**0.775 J**	**1.68**	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
1,4-Dichlorobenzene	2019-04	ug/L											< 1
1,4-Dichlorobenzene	2019-08	ug/L	**0.52 J**	**2.24**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	**1.21**
1,4-Dichlorobenzene	2020-03	ug/L	**0.906 J**	**2.26**	< 1	< 1	< 1	< 1		**0.486 J**	< 1	< 1	**1.88**
1,4-Dichlorobenzene	2020-04	ug/L											
1,4-Dichlorobenzene	2020-08	ug/L	**0.956 J**	**2.49**	< 1	< 1	< 1			**0.438 J**	< 1	< 1	< 1
1,4-Dichlorobenzene	2021-03	ug/L	**0.864 J**		< 1	< 1							< 1
1,4-Dichlorobenzene	2021-08	ug/L	**0.49 J**	**1.08**	< 1	< 1	< 1			< 1	< 1	< 1	**1.58**
1,4-Dichlorobenzene	2022-03	ug/L	**0.503 J**		< 1	< 1							**1.83**
1,4-Dichlorobenzene	2022-08	ug/L	**0.445 J**	**1.34**	< 1	< 1	< 1			< 1	< 1	< 1	**1.2**
1,4-Dichlorobenzene	2023-03	ug/L	**0.676 J**		< 1	< 1							**1.72**
1,4-Dichlorobenzene	2023-08	ug/L	**1.19**	**1.69**	< 1	< 1	< 1			< 1	< 1	< 1	**0.856 J**
1,4-Dichlorobenzene	2024-03	ug/L	**0.892 J**		< 1	< 1							**1.79**
1,4-Dichlorobenzene	2024-08	ug/L	**1.04**	**1.43**	< 1	< 1	< 1			< 1	< 1	< 1	**1.48**
1,4-Naphthoquinone	2008-08	ug/L	< 10	< 10	< 10								
1,4-Naphthoquinone	2009-03	ug/L	< 10	< 10	< 10								
1,4-Naphthoquinone	2009-07	ug/L	< 10	< 10	< 10.0								
1,4-Naphthoquinone	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
1,4-Naphthoquinone	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
1,4-Naphthoquinone	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
1,4-Naphthoquinone	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
1,4-Naphthoquinone	2015-06	ug/L											
1,4-Naphthoquinone	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
1,4-Naphthoquinone	2015-10	ug/L				< 10.6							
1,4-Naphthoquinone	2016-03	ug/L			< 10	< 10							
1,4-Naphthoquinone	2016-06	ug/L											
1,4-Naphthoquinone	2016-08	ug/L			< 11.1	< 11.5							
1,4-Naphthoquinone	2018-11	ug/L											
1,4-Naphthoquinone	2019-03	ug/L											
1,4-Naphthoquinone	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
1-Naphthylamine	2008-08	ug/L	< 10	< 10	< 10								
1-Naphthylamine	2009-03	ug/L	< 10	< 10	< 10								
1-Naphthylamine	2009-07	ug/L	< 10	< 10	< 10.0								
1-Naphthylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
1-Naphthylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
1-Naphthylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
1-Naphthylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
1-Naphthylamine	2015-06	ug/L											
1-Naphthylamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
1-Naphthylamine	2015-10	ug/L				< 10.6							
1-Naphthylamine	2016-03	ug/L			< 10	< 10							
1-Naphthylamine	2016-06	ug/L											
1-Naphthylamine	2016-08	ug/L			< 11.1	< 11.5							
1-Naphthylamine	2018-11	ug/L											
1-Naphthylamine	2019-03	ug/L											
1-Naphthylamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2,2-Dichloropropane	2008-08	ug/L	< 4	< 4	< 4								
2,2-Dichloropropane	2009-03	ug/L	< 4	< 4	< 4								
2,2-Dichloropropane	2009-07	ug/L	< 4	< 4									
2,2-Dichloropropane	2009-09	ug/L	< 4.00	< 4.00	< 4.00								
2,2-Dichloropropane	2010-03	ug/L	< 4.00	< 4.00	< 4.00								
2,2-Dichloropropane	2010-09	ug/L	< 4.00	< 4.00	< 4.00								
2,2-Dichloropropane	2011-03	ug/L	< 4.00	< 4.00	< 4.00								
2,2-Dichloropropane	2012-09	ug/L											
2,2-Dichloropropane	2015-06	ug/L											
2,2-Dichloropropane	2015-09	ug/L	< 4	< 4	< 4								
2,2-Dichloropropane	2015-10	ug/L				< 4							
2,2-Dichloropropane	2016-03	ug/L			< 4	< 4							
2,2-Dichloropropane	2016-06	ug/L											
2,2-Dichloropropane	2016-08	ug/L			< 4	< 4							
2,2-Dichloropropane	2018-11	ug/L											
2,2-Dichloropropane	2019-03	ug/L											
2,2-Dichloropropane	2020-08	ug/L	< 4	< 4	< 4	< 4							
2,2'-oxybis(1-Chloropropane)	2008-08	ug/L	**3.16 J**	< 10	< 10								
2,2'-oxybis(1-Chloropropane)	2009-03	ug/L	< 10	< 10	< 10								
2,2'-oxybis(1-Chloropropane)	2009-07	ug/L	< 10	< 10	< 10.0								
2,2'-oxybis(1-Chloropropane)	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2,2'-oxybis(1-Chloropropane)	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2,2'-oxybis(1-Chloropropane)	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2,2'-oxybis(1-Chloropropane)	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2,2'-oxybis(1-Chloropropane)	2011-09	ug/L	< 10.0		< 10.0								
2,2'-oxybis(1-Chloropropane)	2012-03	ug/L	< 10.0		< 10.0								
2,2'-oxybis(1-Chloropropane)	2012-09	ug/L	< 10.0		< 10.0								
2,2'-oxybis(1-Chloropropane)	2013-03	ug/L	< 10.5		< 10.4								
2,2'-oxybis(1-Chloropropane)	2013-09	ug/L	< 10.1										
2,2'-oxybis(1-Chloropropane)	2014-03	ug/L			< 10.2								
2,2'-oxybis(1-Chloropropane)	2014-09	ug/L			< 10								
2,2'-oxybis(1-Chloropropane)	2015-03	ug/L			< 10.6								
2,2'-oxybis(1-Chloropropane)	2015-06	ug/L											
2,2'-oxybis(1-Chloropropane)	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2,2'-oxybis(1-Chloropropane)	2015-10	ug/L				< 10.6							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
2,2'-oxybis(1-Chloropropane)	2016-03	ug/L								< 11.1				
2,2'-oxybis(1-Chloropropane)	2016-06	ug/L					< 11.4							
2,2'-oxybis(1-Chloropropane)	2016-08	ug/L					< 11			< 11.2				
2,2'-oxybis(1-Chloropropane)	2017-03	ug/L								< 10.4				
2,2'-oxybis(1-Chloropropane)	2017-08	ug/L								< 10.5 J				
2,2'-oxybis(1-Chloropropane)	2018-03	ug/L								< 11.6				
2,2'-oxybis(1-Chloropropane)	2018-08	ug/L												
2,2'-oxybis(1-Chloropropane)	2018-09	ug/L								< 11				
2,2'-oxybis(1-Chloropropane)	2018-11	ug/L											< 11.6	
2,2'-oxybis(1-Chloropropane)	2019-03	ug/L								< 11.5			< 12.2	
2,2'-oxybis(1-Chloropropane)	2019-08	ug/L								< 50.8				
2,2'-oxybis(1-Chloropropane)	2020-03	ug/L								< 10.9				
2,2'-oxybis(1-Chloropropane)	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2,2'-oxybis(1-Chloropropane)	2021-08	ug/L								< 11.6				
2,2'-oxybis(1-Chloropropane)	2022-08	ug/L								< 10				
2,2'-oxybis(1-Chloropropane)	2023-08	ug/L								< 11.1				
2,2'-oxybis(1-Chloropropane)	2024-08	ug/L								< 9.62				
2,3,4,6-Tetrachlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,3,4,6-Tetrachlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,3,4,6-Tetrachlorophenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2,3,4,6-Tetrachlorophenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2,3,4,6-Tetrachlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,3,4,6-Tetrachlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,3,4,6-Tetrachlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,3,4,6-Tetrachlorophenol	2015-06	ug/L						< 10.5	< 11.1					
2,3,4,6-Tetrachlorophenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2,3,4,6-Tetrachlorophenol	2015-10	ug/L			< 10.3	< 10.5								
2,3,4,6-Tetrachlorophenol	2016-03	ug/L												
2,3,4,6-Tetrachlorophenol	2016-06	ug/L					< 11.4							
2,3,4,6-Tetrachlorophenol	2016-08	ug/L					< 11							
2,3,4,6-Tetrachlorophenol	2018-11	ug/L											**0.601 J**	
2,3,4,6-Tetrachlorophenol	2019-03	ug/L											< 12.2	
2,3,4,6-Tetrachlorophenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2,4,5-T	2008-08	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.11		< 0.1	
2,4,5-T	2008-09	ug/L										< 0.11		< 0.1
2,4,5-T	2009-03	ug/L	< 0.22	< 0.22	< 0.2	< 0.21	< 0.22	< 0.22	< 0.2	< 0.2	< 0.2	< 0.22	< 0.21	< 0.2
2,4,5-T	2009-07	ug/L	< 0.21	< 0.21				< 0.21		< 0.21				
2,4,5-T	2009-09	ug/L	< 0.20	< 0.2				< 0.2		< 0.2				
2,4,5-T	2010-03	ug/L	< 0.51	< 0.50				< 0.52		< 0.53				
2,4,5-T	2010-09	ug/L	< 0.51	< 0.53	< 0.51	< 0.52				< 0.53				
2,4,5-T	2011-03	ug/L	< 0.51	< 0.51						< 0.50				
2,4,5-T	2015-06	ug/L						< 1.08	< 1.21					
2,4,5-T	2015-09	ug/L	< 1.18	< 1.28				< 1.21	< 1.17	< 1.27	< 1.25			
2,4,5-T	2015-10	ug/L			< 1.18	< 1.19								
2,4,5-T	2016-03	ug/L												
2,4,5-T	2016-06	ug/L					< 1.17							
2,4,5-T	2016-08	ug/L					< 1.04							
2,4,5-T	2018-11	ug/L											< 1.24	
2,4,5-T	2019-03	ug/L											< 1.15	
2,4,5-T	2019-08	ug/L	< 1.08											
2,4,5-T	2020-08	ug/L	< 0.151	< 0.169	< 0.137	< 0.14	< 0.158	< 0.135	< 0.143	< 0.15	< 0.143			
2,4,5-TP (Silvex)	2008-08	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.11		< 0.1	
2,4,5-TP (Silvex)	2008-09	ug/L										< 0.11		< 0.1
2,4,5-TP (Silvex)	2009-03	ug/L	**0.27**	**0.17 J**	< 0.2	< 0.21	< 0.22	**0.17 J**	< 0.2	**0.36**	< 0.2	< 0.22	< 0.21	< 0.2
2,4,5-TP (Silvex)	2009-07	ug/L	< 0.21	< 0.21				< 0.21		< 0.21				
2,4,5-TP (Silvex)	2009-09	ug/L	< 0.20	< 0.2				< 0.2		**0.49**				
2,4,5-TP (Silvex)	2010-03	ug/L	< 0.51	< 0.50				< 0.52		< 0.53				
2,4,5-TP (Silvex)	2010-09	ug/L	< 0.51	< 0.53	< 0.51	< 0.52				< 0.53				
2,4,5-TP (Silvex)	2011-03	ug/L	< 0.51	< 0.51						< 0.50				
2,4,5-TP (Silvex)	2011-09	ug/L	< 1.1	< 1.0						< 1.0				
2,4,5-TP (Silvex)	2012-03	ug/L	< 1.0	< 1.0						< 1.0				
2,4,5-TP (Silvex)	2012-09	ug/L	< 1.0	< 1.0						< 1.0				
2,4,5-TP (Silvex)	2013-03	ug/L	< 1.07	< 1.04						< 1.03				
2,4,5-TP (Silvex)	2013-09	ug/L	< 1.12	< 1.09				< 1.05		< 1.11				
2,4,5-TP (Silvex)	2014-03	ug/L	< 1.12							**0.632 J**				
2,4,5-TP (Silvex)	2014-09	ug/L	< 1.04							< 1.05				
2,4,5-TP (Silvex)	2015-03	ug/L	< 1.12							< 1.05				
2,4,5-TP (Silvex)	2015-06	ug/L						< 1.08	< 1.21					
2,4,5-TP (Silvex)	2015-09	ug/L	< 1.18	< 1.28				< 1.21	< 1.17	< 1.27	< 1.25			
2,4,5-TP (Silvex)	2015-10	ug/L			< 1.18	< 1.19								
2,4,5-TP (Silvex)	2016-03	ug/L	< 1.11							< 11				
2,4,5-TP (Silvex)	2016-06	ug/L					< 1.17							
2,4,5-TP (Silvex)	2016-08	ug/L	< 1.19				< 1.04			< 1.17				
2,4,5-TP (Silvex)	2017-03	ug/L	< 1.11							< 1.1				
2,4,5-TP (Silvex)	2017-08	ug/L	< 1.16							< 1.19				
2,4,5-TP (Silvex)	2018-03	ug/L	< 1.27							< 1.11				
2,4,5-TP (Silvex)	2018-08	ug/L	< 1.17											
2,4,5-TP (Silvex)	2018-09	ug/L								< 1.15				
2,4,5-TP (Silvex)	2018-11	ug/L											< 1.24	
2,4,5-TP (Silvex)	2019-03	ug/L	< 1.12							< 1.28			< 1.15	
2,4,5-TP (Silvex)	2019-08	ug/L	< 1.08							< 1.17				
2,4,5-TP (Silvex)	2020-03	ug/L								< 1.11				
2,4,5-TP (Silvex)	2020-04	ug/L	< 1.19											
2,4,5-TP (Silvex)	2020-08	ug/L	< 0.151	< 0.169	< 0.137	< 0.14	< 0.158	< 0.135	< 0.143	< 0.15	< 0.143			
2,4,5-TP (Silvex)	2021-08	ug/L	< 1.2							**0.305 J**				
2,4,5-TP (Silvex)	2022-08	ug/L	< 0.5							< 1.15				
2,4,5-TP (Silvex)	2023-08	ug/L	< 1.02							< 0.994				
2,4,5-TP (Silvex)	2024-08	ug/L	< 1.04							< 1.08				

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
2,2'-oxybis(1-Chloropropane)	2016-03	ug/L			< 10	< 10							
2,2'-oxybis(1-Chloropropane)	2016-06	ug/L											
2,2'-oxybis(1-Chloropropane)	2016-08	ug/L			< 11.1	< 11.5							
2,2'-oxybis(1-Chloropropane)	2017-03	ug/L			< 10.2	< 11.4							
2,2'-oxybis(1-Chloropropane)	2017-08	ug/L			< 10.6	< 11.1							
2,2'-oxybis(1-Chloropropane)	2018-03	ug/L			< 11.2	< 12							
2,2'-oxybis(1-Chloropropane)	2018-08	ug/L			< 11	< 11.1							
2,2'-oxybis(1-Chloropropane)	2018-09	ug/L											
2,2'-oxybis(1-Chloropropane)	2018-11	ug/L											
2,2'-oxybis(1-Chloropropane)	2019-03	ug/L			< 11.5	< 10.9							
2,2'-oxybis(1-Chloropropane)	2019-08	ug/L			< 10.7	< 10.2							
2,2'-oxybis(1-Chloropropane)	2020-03	ug/L			< 11.1	< 11.6							
2,2'-oxybis(1-Chloropropane)	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2,2'-oxybis(1-Chloropropane)	2021-08	ug/L			< 11.8	< 11							
2,2'-oxybis(1-Chloropropane)	2022-08	ug/L			< 10.2	< 10.4							
2,2'-oxybis(1-Chloropropane)	2023-08	ug/L			< 9.8	< 11.6							
2,2'-oxybis(1-Chloropropane)	2024-08	ug/L			< 10	< 10.4							
2,3,4,6-Tetrachlorophenol	2008-08	ug/L	< 10	< 10	< 10								
2,3,4,6-Tetrachlorophenol	2009-03	ug/L	< 10	< 10	< 10								
2,3,4,6-Tetrachlorophenol	2009-07	ug/L	< 10	< 10	< 10.0								
2,3,4,6-Tetrachlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2,3,4,6-Tetrachlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2,3,4,6-Tetrachlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2,3,4,6-Tetrachlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2,3,4,6-Tetrachlorophenol	2015-06	ug/L											
2,3,4,6-Tetrachlorophenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2,3,4,6-Tetrachlorophenol	2015-10	ug/L				< 10.6							
2,3,4,6-Tetrachlorophenol	2016-03	ug/L			< 10	< 10							
2,3,4,6-Tetrachlorophenol	2016-06	ug/L											
2,3,4,6-Tetrachlorophenol	2016-08	ug/L			< 11.1	< 11.5							
2,3,4,6-Tetrachlorophenol	2018-11	ug/L											
2,3,4,6-Tetrachlorophenol	2019-03	ug/L											
2,3,4,6-Tetrachlorophenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2,4,5-T	2008-08	ug/L	< 0.1	< 0.11									
2,4,5-T	2008-09	ug/L			< 0.1								
2,4,5-T	2009-03	ug/L	< 0.22	< 0.2	< 0.2								
2,4,5-T	2009-07	ug/L											
2,4,5-T	2009-09	ug/L			< 0.20								
2,4,5-T	2010-03	ug/L			< 0.50								
2,4,5-T	2010-09	ug/L	< 0.51 UJ	< 0.52	< 0.52								
2,4,5-T	2011-03	ug/L			< 0.56								
2,4,5-T	2015-06	ug/L											
2,4,5-T	2015-09	ug/L	< 1.2	< 1.11	< 1.11								
2,4,5-T	2015-10	ug/L				< 1.22							
2,4,5-T	2016-03	ug/L			< 1.08	< 1.16							
2,4,5-T	2016-06	ug/L											
2,4,5-T	2016-08	ug/L			< 1.15	< 1.28							
2,4,5-T	2018-11	ug/L											
2,4,5-T	2019-03	ug/L											
2,4,5-T	2019-08	ug/L											
2,4,5-T	2020-08	ug/L	< 0.144	< 0.148	< 0.143	< 0.152							
2,4,5-TP (Silvex)	2008-08	ug/L	< 0.1	< 0.11									
2,4,5-TP (Silvex)	2008-09	ug/L			< 0.1								
2,4,5-TP (Silvex)	2009-03	ug/L	< 0.22	< 0.2	< 0.2								
2,4,5-TP (Silvex)	2009-07	ug/L											
2,4,5-TP (Silvex)	2009-09	ug/L			< 0.20								
2,4,5-TP (Silvex)	2010-03	ug/L			< 0.50								
2,4,5-TP (Silvex)	2010-09	ug/L	< 0.51 UJ	< 0.52	< 0.52								
2,4,5-TP (Silvex)	2011-03	ug/L			< 0.56								
2,4,5-TP (Silvex)	2011-09	ug/L			< 1.0								
2,4,5-TP (Silvex)	2012-03	ug/L			< 1.0								
2,4,5-TP (Silvex)	2012-09	ug/L											
2,4,5-TP (Silvex)	2013-03	ug/L			< 1.06								
2,4,5-TP (Silvex)	2013-09	ug/L											
2,4,5-TP (Silvex)	2014-03	ug/L			< 1.06								
2,4,5-TP (Silvex)	2014-09	ug/L			< 1.05								
2,4,5-TP (Silvex)	2015-03	ug/L			< 1.11								
2,4,5-TP (Silvex)	2015-06	ug/L											
2,4,5-TP (Silvex)	2015-09	ug/L	< 1.2	< 1.11	< 1.11								
2,4,5-TP (Silvex)	2015-10	ug/L				< 1.22							
2,4,5-TP (Silvex)	2016-03	ug/L			< 1.08	< 1.16							
2,4,5-TP (Silvex)	2016-06	ug/L											
2,4,5-TP (Silvex)	2016-08	ug/L			< 1.15	< 1.28							
2,4,5-TP (Silvex)	2017-03	ug/L			< 1.02	< 1.18							
2,4,5-TP (Silvex)	2017-08	ug/L			< 1.09	< 1.11							
2,4,5-TP (Silvex)	2018-03	ug/L			< 1.13	< 1.17							
2,4,5-TP (Silvex)	2018-08	ug/L			< 1.1	< 1.12							
2,4,5-TP (Silvex)	2018-09	ug/L											
2,4,5-TP (Silvex)	2018-11	ug/L											
2,4,5-TP (Silvex)	2019-03	ug/L			< 1.28	< 1.14							
2,4,5-TP (Silvex)	2019-08	ug/L			< 1.27	< 1.2							
2,4,5-TP (Silvex)	2020-03	ug/L			< 1.2	**2.14 J**							
2,4,5-TP (Silvex)	2020-04	ug/L											
2,4,5-TP (Silvex)	2020-08	ug/L	< 0.144	< 0.148	< 0.143	< 0.152							
2,4,5-TP (Silvex)	2021-08	ug/L			< 1.18	< 1.17							
2,4,5-TP (Silvex)	2022-08	ug/L			< 1.18	< 1.09							
2,4,5-TP (Silvex)	2023-08	ug/L			< 1.04	< 1.07							
2,4,5-TP (Silvex)	2024-08	ug/L			< 1.07	< 1.1							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
2,4,5-Trichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2,4,5-Trichlorophenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2,4,5-Trichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,4,5-Trichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,4,5-Trichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,4,5-Trichlorophenol	2015-06	ug/L						< 10.5	< 11.1					
2,4,5-Trichlorophenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2,4,5-Trichlorophenol	2015-10	ug/L			< 10.3	< 10.5								
2,4,5-Trichlorophenol	2016-03	ug/L												
2,4,5-Trichlorophenol	2016-06	ug/L					< 11.4							
2,4,5-Trichlorophenol	2016-08	ug/L					< 11							
2,4,5-Trichlorophenol	2018-11	ug/L											< 11.6	
2,4,5-Trichlorophenol	2019-03	ug/L											< 12.2	
2,4,5-Trichlorophenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2,4,6-Trichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,6-Trichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,6-Trichlorophenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2,4,6-Trichlorophenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2,4,6-Trichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,4,6-Trichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,4,6-Trichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,4,6-Trichlorophenol	2015-06	ug/L						< 10.5	< 11.1					
2,4,6-Trichlorophenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2,4,6-Trichlorophenol	2015-10	ug/L			< 10.3	< 10.5								
2,4,6-Trichlorophenol	2016-03	ug/L												
2,4,6-Trichlorophenol	2016-06	ug/L					< 11.4							
2,4,6-Trichlorophenol	2016-08	ug/L					< 11							
2,4,6-Trichlorophenol	2018-11	ug/L											< 11.6	
2,4,6-Trichlorophenol	2019-03	ug/L											< 12.2	
2,4,6-Trichlorophenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2,4-D	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1.1	< 1.1	< 1.1	< 1	< 1.1		< 1	
2,4-D	2008-09	ug/L										< 1.1		< 1
2,4-D	2009-03	ug/L	< 1.1	< 1.1	< 0.99	< 1.1	< 1.1	< 1.1	< 1	< 1	< 1	< 1.1	< 1.1	< 1
2,4-D	2009-07	ug/L	< 1	< 1.1				< 1		< 1.1				
2,4-D	2009-09	ug/L	< 1.0	< 1				< 1		< 1				
2,4-D	2010-03	ug/L	< 1.0	< 1.0				< 1.0		< 1.1				
2,4-D	2010-09	ug/L	< 1.0	< 1.1	< 1.0	< 1.0				< 1.1				
2,4-D	2011-03	ug/L	< 1.0	< 1.0						< 1.0				
2,4-D	2015-06	ug/L						< 1.08	< 1.21					
2,4-D	2015-09	ug/L	< 1.18	< 1.28				< 1.21	< 1.17	< 1.27	< 1.25			
2,4-D	2015-10	ug/L			< 1.18	< 1.19								
2,4-D	2016-03	ug/L												
2,4-D	2016-06	ug/L					< 1.17							
2,4-D	2016-08	ug/L					< 1.04							
2,4-D	2018-11	ug/L											< 1.24	
2,4-D	2019-03	ug/L											< 1.15	
2,4-D	2019-08	ug/L	< 1.08											
2,4-D	2020-08	ug/L	< 0.301	< 0.339	< 0.273	< 0.28	< 0.315	< 0.269	< 0.286	< 0.3	< 0.286			
2,4-Dichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dichlorophenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2,4-Dichlorophenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2,4-Dichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,4-Dichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,4-Dichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,4-Dichlorophenol	2012-03	ug/L												
2,4-Dichlorophenol	2012-09	ug/L												
2,4-Dichlorophenol	2013-03	ug/L												
2,4-Dichlorophenol	2015-06	ug/L						< 10.5	< 11.1					
2,4-Dichlorophenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2,4-Dichlorophenol	2015-10	ug/L			< 10.3	< 10.5								
2,4-Dichlorophenol	2016-03	ug/L												
2,4-Dichlorophenol	2016-06	ug/L					< 11.4							
2,4-Dichlorophenol	2016-08	ug/L					< 11							
2,4-Dichlorophenol	2018-11	ug/L											< 11.6	
2,4-Dichlorophenol	2019-03	ug/L											< 12.2	
2,4-Dichlorophenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2,4-Dimethylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dimethylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dimethylphenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2,4-Dimethylphenol	2009-09	ug/L	< 10.0	**0.335 J**	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2,4-Dimethylphenol	2010-03	ug/L	< 10.0	**0.284 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,4-Dimethylphenol	2010-09	ug/L	< 10.0	**0.273 J**	< 10.0	< 10.0				< 10.0				
2,4-Dimethylphenol	2011-03	ug/L	< 10.0	**0.337 J**	< 10.0	< 10.0				< 10.0				
2,4-Dimethylphenol	2011-09	ug/L		**0.232 J**										
2,4-Dimethylphenol	2012-03	ug/L		**0.215 J**										
2,4-Dimethylphenol	2012-09	ug/L		**0.277 J**										
2,4-Dimethylphenol	2013-03	ug/L		< 10.2										
2,4-Dimethylphenol	2013-09	ug/L		< 11.0										
2,4-Dimethylphenol	2015-06	ug/L						< 10.5	< 11.1					
2,4-Dimethylphenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2,4-Dimethylphenol	2015-10	ug/L			< 10.3	< 10.5								
2,4-Dimethylphenol	2016-03	ug/L												
2,4-Dimethylphenol	2016-06	ug/L					< 11.4							
2,4-Dimethylphenol	2016-08	ug/L					< 11							
2,4-Dimethylphenol	2018-11	ug/L											< 11.6	

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
2,4,5-Trichlorophenol	2008-08	ug/L	< 10	< 10	< 10								
2,4,5-Trichlorophenol	2009-03	ug/L	< 10	< 10	< 10								
2,4,5-Trichlorophenol	2009-07	ug/L	< 10	< 10	< 10.0								
2,4,5-Trichlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4,5-Trichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4,5-Trichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4,5-Trichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4,5-Trichlorophenol	2015-06	ug/L											
2,4,5-Trichlorophenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2,4,5-Trichlorophenol	2015-10	ug/L				< 10.6							
2,4,5-Trichlorophenol	2016-03	ug/L			< 10	< 10							
2,4,5-Trichlorophenol	2016-06	ug/L											
2,4,5-Trichlorophenol	2016-08	ug/L			< 11.1	< 11.5							
2,4,5-Trichlorophenol	2018-11	ug/L											
2,4,5-Trichlorophenol	2019-03	ug/L											
2,4,5-Trichlorophenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2,4,6-Trichlorophenol	2008-08	ug/L	< 10	< 10	< 10								
2,4,6-Trichlorophenol	2009-03	ug/L	< 10	< 10	< 10								
2,4,6-Trichlorophenol	2009-07	ug/L	< 10	< 10	< 10.0								
2,4,6-Trichlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4,6-Trichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4,6-Trichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4,6-Trichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4,6-Trichlorophenol	2015-06	ug/L											
2,4,6-Trichlorophenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2,4,6-Trichlorophenol	2015-10	ug/L				< 10.6							
2,4,6-Trichlorophenol	2016-03	ug/L			< 10	< 10							
2,4,6-Trichlorophenol	2016-06	ug/L											
2,4,6-Trichlorophenol	2016-08	ug/L			< 11.1	< 11.5							
2,4,6-Trichlorophenol	2018-11	ug/L											
2,4,6-Trichlorophenol	2019-03	ug/L											
2,4,6-Trichlorophenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2,4-D	2008-08	ug/L	< 1	< 1.1									
2,4-D	2008-09	ug/L			< 1								
2,4-D	2009-03	ug/L	< 1.1	< 0.99	< 1								
2,4-D	2009-07	ug/L											
2,4-D	2009-09	ug/L			< 1.0								
2,4-D	2010-03	ug/L			< 1.0								
2,4-D	2010-09	ug/L	< 1.0 UJ	< 1.0	< 1.0								
2,4-D	2011-03	ug/L			< 1.1								
2,4-D	2015-06	ug/L											
2,4-D	2015-09	ug/L	< 1.2	< 1.11	< 1.11								
2,4-D	2015-10	ug/L				< 1.22							
2,4-D	2016-03	ug/L			< 1.08	< 1.16							
2,4-D	2016-06	ug/L											
2,4-D	2016-08	ug/L			< 1.15	< 1.28							
2,4-D	2018-11	ug/L											
2,4-D	2019-03	ug/L											
2,4-D	2019-08	ug/L											
2,4-D	2020-08	ug/L	< 0.288	< 0.296	< 0.286	< 0.305							
2,4-Dichlorophenol	2008-08	ug/L	< 10	< 10	< 10								
2,4-Dichlorophenol	2009-03	ug/L	< 10	< 10	< 10								
2,4-Dichlorophenol	2009-07	ug/L	< 10	< 10	< 10.0								
2,4-Dichlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dichlorophenol	2012-03	ug/L			< 10.0								
2,4-Dichlorophenol	2012-09	ug/L			< 10.0								
2,4-Dichlorophenol	2013-03	ug/L			< 10.4								
2,4-Dichlorophenol	2015-06	ug/L											
2,4-Dichlorophenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2,4-Dichlorophenol	2015-10	ug/L				< 10.6							
2,4-Dichlorophenol	2016-03	ug/L			< 10	< 10							
2,4-Dichlorophenol	2016-06	ug/L											
2,4-Dichlorophenol	2016-08	ug/L			< 11.1	< 11.5							
2,4-Dichlorophenol	2018-11	ug/L											
2,4-Dichlorophenol	2019-03	ug/L											
2,4-Dichlorophenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2,4-Dimethylphenol	2008-08	ug/L	< 10	< 10	< 10								
2,4-Dimethylphenol	2009-03	ug/L	< 10	< 10	< 10								
2,4-Dimethylphenol	2009-07	ug/L	< 10	< 10	< 10.0								
2,4-Dimethylphenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dimethylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dimethylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dimethylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dimethylphenol	2011-09	ug/L			< 10.0								
2,4-Dimethylphenol	2012-03	ug/L			< 10.0								
2,4-Dimethylphenol	2012-09	ug/L			< 10.0								
2,4-Dimethylphenol	2013-03	ug/L			< 10.4								
2,4-Dimethylphenol	2013-09	ug/L											
2,4-Dimethylphenol	2015-06	ug/L											
2,4-Dimethylphenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2,4-Dimethylphenol	2015-10	ug/L				< 10.6							
2,4-Dimethylphenol	2016-03	ug/L			< 10	< 10							
2,4-Dimethylphenol	2016-06	ug/L											
2,4-Dimethylphenol	2016-08	ug/L			< 11.1	< 11.5							
2,4-Dimethylphenol	2018-11	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
2,4-Dimethylphenol	2019-03	ug/L											< 12.2	
2,4-Dimethylphenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2,4-Dinitrophenol	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
2,4-Dinitrophenol	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
2,4-Dinitrophenol	2009-07	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0	< 20.0	< 20	< 20	< 20	< 20.0
2,4-Dinitrophenol	2009-09	ug/L	< 20.0	< 20	< 20.0	< 20.0	< 20.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0
2,4-Dinitrophenol	2010-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
2,4-Dinitrophenol	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0				< 20.0				
2,4-Dinitrophenol	2011-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0				< 20.0				
2,4-Dinitrophenol	2015-06	ug/L						< 21.1	< 22.2					
2,4-Dinitrophenol	2015-09	ug/L	< 22.2	**12.4 J**				< 22.2	< 20.4	< 22.5	< 22.2			
2,4-Dinitrophenol	2015-10	ug/L			< 20.6	< 21.1								
2,4-Dinitrophenol	2016-03	ug/L												
2,4-Dinitrophenol	2016-06	ug/L					< 22.7							
2,4-Dinitrophenol	2016-08	ug/L					< 22							
2,4-Dinitrophenol	2018-11	ug/L											< 23.3	
2,4-Dinitrophenol	2019-03	ug/L											< 24.4	
2,4-Dinitrophenol	2020-08	ug/L	< 23.5	< 24.4	< 21.5	< 21.7	< 22.7	< 22.7	< 22.5	< 23.5	< 23.8			
2,4-Dinitrotoluene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2,4-Dinitrotoluene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2,4-Dinitrotoluene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,4-Dinitrotoluene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,4-Dinitrotoluene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,4-Dinitrotoluene	2015-06	ug/L						< 10.5	< 11.1					
2,4-Dinitrotoluene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2,4-Dinitrotoluene	2015-10	ug/L			< 10.3	< 10.5								
2,4-Dinitrotoluene	2016-03	ug/L												
2,4-Dinitrotoluene	2016-06	ug/L					< 11.4							
2,4-Dinitrotoluene	2016-08	ug/L					< 11							
2,4-Dinitrotoluene	2018-11	ug/L											< 11.6	
2,4-Dinitrotoluene	2019-03	ug/L											< 12.2	
2,4-Dinitrotoluene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2,6-Dichlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,6-Dichlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,6-Dichlorophenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2,6-Dichlorophenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2,6-Dichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,6-Dichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,6-Dichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,6-Dichlorophenol	2015-06	ug/L						< 10.5	< 11.1					
2,6-Dichlorophenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2,6-Dichlorophenol	2015-10	ug/L			< 10.3	< 10.5								
2,6-Dichlorophenol	2016-03	ug/L												
2,6-Dichlorophenol	2016-06	ug/L					< 11.4							
2,6-Dichlorophenol	2016-08	ug/L					< 11							
2,6-Dichlorophenol	2018-11	ug/L											< 11.6	
2,6-Dichlorophenol	2019-03	ug/L											< 12.2	
2,6-Dichlorophenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2,6-Dinitrotoluene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,6-Dinitrotoluene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,6-Dinitrotoluene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2,6-Dinitrotoluene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2,6-Dinitrotoluene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,6-Dinitrotoluene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,6-Dinitrotoluene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2,6-Dinitrotoluene	2015-06	ug/L						< 10.5	< 11.1					
2,6-Dinitrotoluene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2,6-Dinitrotoluene	2015-10	ug/L			< 10.3	< 10.5								
2,6-Dinitrotoluene	2016-03	ug/L												
2,6-Dinitrotoluene	2016-06	ug/L					< 11.4							
2,6-Dinitrotoluene	2016-08	ug/L					< 11							
2,6-Dinitrotoluene	2018-11	ug/L											< 11.6	
2,6-Dinitrotoluene	2019-03	ug/L											< 12.2	
2,6-Dinitrotoluene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2-Acetylaminofluorene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Acetylaminofluorene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Acetylaminofluorene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2-Acetylaminofluorene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2-Acetylaminofluorene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Acetylaminofluorene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Acetylaminofluorene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Acetylaminofluorene	2015-06	ug/L						< 10.5	< 11.1					
2-Acetylaminofluorene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2-Acetylaminofluorene	2015-10	ug/L			< 10.3	< 10.5								
2-Acetylaminofluorene	2016-03	ug/L												
2-Acetylaminofluorene	2016-06	ug/L					< 11.4							
2-Acetylaminofluorene	2016-08	ug/L					< 11							
2-Acetylaminofluorene	2018-11	ug/L											< 11.6	
2-Acetylaminofluorene	2019-03	ug/L											< 12.2	
2-Acetylaminofluorene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2-Butanone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
2-Butanone	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
2-Butanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
2,4-Dimethylphenol	2019-03	ug/L											
2,4-Dimethylphenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2,4-Dinitrophenol	2008-08	ug/L	< 20	< 20	< 20								
2,4-Dinitrophenol	2009-03	ug/L	< 20	< 20	< 20								
2,4-Dinitrophenol	2009-07	ug/L	< 20	< 20	< 20.0								
2,4-Dinitrophenol	2009-09	ug/L	< 20.0	< 20.0	< 20.0								
2,4-Dinitrophenol	2010-03	ug/L	< 20.0	< 20.0	< 20.0								
2,4-Dinitrophenol	2010-09	ug/L	< 20.0	< 20.0	< 20.0								
2,4-Dinitrophenol	2011-03	ug/L	< 20.0	< 20.0	< 20.0								
2,4-Dinitrophenol	2015-06	ug/L											
2,4-Dinitrophenol	2015-09	ug/L	< 21.7	< 21.1	< 22.5								
2,4-Dinitrophenol	2015-10	ug/L				< 21.3							
2,4-Dinitrophenol	2016-03	ug/L			< 20	< 20							
2,4-Dinitrophenol	2016-06	ug/L											
2,4-Dinitrophenol	2016-08	ug/L			< 22.2	< 23							
2,4-Dinitrophenol	2018-11	ug/L											
2,4-Dinitrophenol	2019-03	ug/L											
2,4-Dinitrophenol	2020-08	ug/L	< 23.5	< 22	< 23.5	< 23.5							
2,4-Dinitrotoluene	2008-08	ug/L	< 10	< 10	< 10								
2,4-Dinitrotoluene	2009-03	ug/L	< 10	< 10	< 10								
2,4-Dinitrotoluene	2009-07	ug/L	< 10	< 10	< 10.0								
2,4-Dinitrotoluene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dinitrotoluene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dinitrotoluene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dinitrotoluene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2,4-Dinitrotoluene	2015-06	ug/L											
2,4-Dinitrotoluene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2,4-Dinitrotoluene	2015-10	ug/L				< 10.6							
2,4-Dinitrotoluene	2016-03	ug/L			< 10	< 10							
2,4-Dinitrotoluene	2016-06	ug/L											
2,4-Dinitrotoluene	2016-08	ug/L			< 11.1	< 11.5							
2,4-Dinitrotoluene	2018-11	ug/L											
2,4-Dinitrotoluene	2019-03	ug/L											
2,4-Dinitrotoluene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2,6-Dichlorophenol	2008-08	ug/L	< 10	< 10	< 10								
2,6-Dichlorophenol	2009-03	ug/L	< 10	< 10	< 10								
2,6-Dichlorophenol	2009-07	ug/L	< 10	< 10	< 10.0								
2,6-Dichlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2,6-Dichlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2,6-Dichlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2,6-Dichlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2,6-Dichlorophenol	2015-06	ug/L											
2,6-Dichlorophenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2,6-Dichlorophenol	2015-10	ug/L				< 10.6							
2,6-Dichlorophenol	2016-03	ug/L			< 10	< 10							
2,6-Dichlorophenol	2016-06	ug/L											
2,6-Dichlorophenol	2016-08	ug/L			< 11.1	< 11.5							
2,6-Dichlorophenol	2018-11	ug/L											
2,6-Dichlorophenol	2019-03	ug/L											
2,6-Dichlorophenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2,6-Dinitrotoluene	2008-08	ug/L	< 10	< 10	< 10								
2,6-Dinitrotoluene	2009-03	ug/L	< 10	< 10	< 10								
2,6-Dinitrotoluene	2009-07	ug/L	< 10	< 10	< 10.0								
2,6-Dinitrotoluene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2,6-Dinitrotoluene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2,6-Dinitrotoluene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2,6-Dinitrotoluene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2,6-Dinitrotoluene	2015-06	ug/L											
2,6-Dinitrotoluene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2,6-Dinitrotoluene	2015-10	ug/L				< 10.6							
2,6-Dinitrotoluene	2016-03	ug/L			< 10	< 10							
2,6-Dinitrotoluene	2016-06	ug/L											
2,6-Dinitrotoluene	2016-08	ug/L			< 11.1	< 11.5							
2,6-Dinitrotoluene	2018-11	ug/L											
2,6-Dinitrotoluene	2019-03	ug/L											
2,6-Dinitrotoluene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2-Acetylaminofluorene	2008-08	ug/L	< 10	< 10	< 10								
2-Acetylaminofluorene	2009-03	ug/L	< 10	< 10	< 10								
2-Acetylaminofluorene	2009-07	ug/L	< 10	< 10	< 10.0								
2-Acetylaminofluorene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Acetylaminofluorene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Acetylaminofluorene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Acetylaminofluorene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Acetylaminofluorene	2015-06	ug/L											
2-Acetylaminofluorene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2-Acetylaminofluorene	2015-10	ug/L				< 10.6							
2-Acetylaminofluorene	2016-03	ug/L			< 10	< 10							
2-Acetylaminofluorene	2016-06	ug/L											
2-Acetylaminofluorene	2016-08	ug/L			< 11.1	< 11.5							
2-Acetylaminofluorene	2018-11	ug/L											
2-Acetylaminofluorene	2019-03	ug/L											
2-Acetylaminofluorene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2-Butanone	2008-08	ug/L	< 10	< 10	< 10								
2-Butanone	2009-03	ug/L	< 10	< 10	< 10								
2-Butanone	2009-07	ug/L	< 10	< 10									
2-Butanone	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Butanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Butanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
2-Butanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2013-03	ug/L	< 10.0	< 10.0 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
2-Butanone	2013-09	ug/L	< 10.0	< 10.0	< 10.0 J	**2.49 J**	**1.18 J**	**1.11 J**	< 10.0	**4.78 J**	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2013-11	ug/L												
2-Butanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Butanone	2014-06	ug/L												
2-Butanone	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2015-03	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	**3.03 J**	< 10	< 10	< 10.0	< 10.0
2-Butanone	2015-06	ug/L						< 10	< 10					
2-Butanone	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
2-Butanone	2015-10	ug/L			< 10	< 10							< 10	< 10
2-Butanone	2016-03	ug/L	< 10 J	**4.17 J**	< 10	< 10	< 10	< 10	< 10	**9.64 J**	< 10	< 10	< 10	< 10
2-Butanone	2016-06	ug/L					< 10							
2-Butanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**3.85 J**	< 10	< 10	< 10	< 10
2-Butanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**5.4 J**	< 10	< 10	< 10	< 10
2-Butanone	2017-11	ug/L												
2-Butanone	2018-03	ug/L	< 10	**3.94 J**	< 10	**4.11 J**	< 10	< 10	< 10	**4.69 J**	< 10	< 10	< 10	< 10
2-Butanone	2018-06	ug/L												
2-Butanone	2018-08	ug/L	< 10	**2.2 J**	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Butanone	2018-09	ug/L							< 10	**2.39 J**				
2-Butanone	2018-11	ug/L											< 10	
2-Butanone	2019-03	ug/L	< 10	**3.37 J**	< 10	< 10	< 10	< 10	< 10	**5.7 J**	< 10	< 10	< 10	< 10
2-Butanone	2019-04	ug/L												
2-Butanone	2019-08	ug/L	< 10	**2.85 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2020-03	ug/L		< 10		< 10	< 10	< 10	< 10	**10.5**	< 10	< 10	< 10	< 10
2-Butanone	2020-04	ug/L	< 10		< 10									
2-Butanone	2020-08	ug/L	< 10	**3.27 J**	< 10	< 10	< 10	< 10	< 10	**5.38 J**	< 10			< 10
2-Butanone	2021-03	ug/L				< 10								
2-Butanone	2021-08	ug/L	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
2-Butanone	2022-03	ug/L				< 10								
2-Butanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
2-Butanone	2023-03	ug/L				< 10								
2-Butanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
2-Butanone	2024-03	ug/L				< 10								
2-Butanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
2-Chloronaphthalene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloronaphthalene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloronaphthalene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2-Chloronaphthalene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2-Chloronaphthalene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Chloronaphthalene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Chloronaphthalene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Chloronaphthalene	2015-06	ug/L						< 10.5	< 11.1					
2-Chloronaphthalene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2-Chloronaphthalene	2015-10	ug/L			< 10.3	< 10.5								
2-Chloronaphthalene	2016-03	ug/L												
2-Chloronaphthalene	2016-06	ug/L					< 11.4							
2-Chloronaphthalene	2016-08	ug/L					< 11							
2-Chloronaphthalene	2018-11	ug/L											< 11.6	
2-Chloronaphthalene	2019-03	ug/L											< 12.2	
2-Chloronaphthalene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2-Chlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorophenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2-Chlorophenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2-Chlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Chlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Chlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Chlorophenol	2011-09	ug/L												
2-Chlorophenol	2012-03	ug/L												
2-Chlorophenol	2012-09	ug/L												
2-Chlorophenol	2013-03	ug/L												
2-Chlorophenol	2013-09	ug/L												
2-Chlorophenol	2015-06	ug/L						< 10.5	< 11.1					
2-Chlorophenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2-Chlorophenol	2015-10	ug/L			< 10.3	< 10.5								
2-Chlorophenol	2016-03	ug/L												
2-Chlorophenol	2016-06	ug/L					< 11.4							
2-Chlorophenol	2016-08	ug/L					< 11							
2-Chlorophenol	2018-11	ug/L											< 11.6	
2-Chlorophenol	2019-03	ug/L											< 12.2	
2-Chlorophenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2-Hexanone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
2-Hexanone	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
2-Hexanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2013-03	ug/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
2-Hexanone	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
2-Butanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Butanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Butanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Butanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Butanone	2013-03	ug/L	< 10	< 10	< 10.0								
2-Butanone	2013-09	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2013-11	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2014-06	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2014-09	ug/L	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
2-Butanone	2015-03	ug/L	< 10.0	< 10.0	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Butanone	2015-06	ug/L											
2-Butanone	2015-09	ug/L	< 10	< 10	< 10								
2-Butanone	2015-10	ug/L				< 10	< 10	< 10		< 10	< 10		
2-Butanone	2016-03	ug/L	**1.32 J**	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
2-Butanone	2016-06	ug/L											
2-Butanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
2-Butanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
2-Butanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
2-Butanone	2017-11	ug/L										< 10	< 10
2-Butanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
2-Butanone	2018-06	ug/L										< 10	< 10
2-Butanone	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10		< 10			
2-Butanone	2018-09	ug/L										< 10	< 10
2-Butanone	2018-11	ug/L										< 10	< 10
2-Butanone	2019-03	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	
2-Butanone	2019-04	ug/L											< 10
2-Butanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
2-Butanone	2020-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
2-Butanone	2020-04	ug/L											
2-Butanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Butanone	2021-03	ug/L	< 10		< 10	< 10							< 10
2-Butanone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Butanone	2022-03	ug/L	< 10		< 10	< 10							< 10
2-Butanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Butanone	2023-03	ug/L	< 10		< 10	< 10							< 10
2-Butanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Butanone	2024-03	ug/L	< 10		< 10	< 10							< 10
2-Butanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Chloronaphthalene	2008-08	ug/L	< 10	< 10	< 10								
2-Chloronaphthalene	2009-03	ug/L	< 10	< 10	< 10								
2-Chloronaphthalene	2009-07	ug/L	< 10	< 10	< 10.0								
2-Chloronaphthalene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Chloronaphthalene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Chloronaphthalene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Chloronaphthalene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Chloronaphthalene	2015-06	ug/L											
2-Chloronaphthalene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2-Chloronaphthalene	2015-10	ug/L				< 10.6							
2-Chloronaphthalene	2016-03	ug/L			< 10	< 10							
2-Chloronaphthalene	2016-06	ug/L											
2-Chloronaphthalene	2016-08	ug/L			< 11.1	< 11.5							
2-Chloronaphthalene	2018-11	ug/L											
2-Chloronaphthalene	2019-03	ug/L											
2-Chloronaphthalene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2-Chlorophenol	2008-08	ug/L	< 10	< 10	< 10								
2-Chlorophenol	2009-03	ug/L	< 10	< 10	< 10								
2-Chlorophenol	2009-07	ug/L	< 10	< 10	< 10.0								
2-Chlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Chlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Chlorophenol	2010-09	ug/L	< 10.0	**0.160 J**	< 10.0								
2-Chlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Chlorophenol	2011-09	ug/L		**0.200 J**	< 10.0								
2-Chlorophenol	2012-03	ug/L		< 10.0	< 10.0								
2-Chlorophenol	2012-09	ug/L		< 10.0	< 10.0								
2-Chlorophenol	2013-03	ug/L		< 21.5	< 10.4								
2-Chlorophenol	2013-09	ug/L		< 10.9									
2-Chlorophenol	2015-06	ug/L											
2-Chlorophenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2-Chlorophenol	2015-10	ug/L				< 10.6							
2-Chlorophenol	2016-03	ug/L			< 10	< 10							
2-Chlorophenol	2016-06	ug/L											
2-Chlorophenol	2016-08	ug/L			< 11.1	< 11.5							
2-Chlorophenol	2018-11	ug/L											
2-Chlorophenol	2019-03	ug/L											
2-Chlorophenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2-Hexanone	2008-08	ug/L	< 10	< 10	< 10								
2-Hexanone	2009-03	ug/L	< 10	< 10	< 10								
2-Hexanone	2009-07	ug/L	< 10	< 10									
2-Hexanone	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Hexanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Hexanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Hexanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Hexanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Hexanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Hexanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Hexanone	2013-03	ug/L	< 10	< 10	< 10.0								
2-Hexanone	2013-09	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
2-Hexanone	2013-11	ug/L												
2-Hexanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Hexanone	2014-06	ug/L												
2-Hexanone	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2015-03	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0
2-Hexanone	2015-06	ug/L						< 10	< 10					
2-Hexanone	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
2-Hexanone	2015-10	ug/L			< 10	< 10							< 10	< 10
2-Hexanone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2016-06	ug/L					< 10							
2-Hexanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2017-11	ug/L												
2-Hexanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2018-06	ug/L												
2-Hexanone	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Hexanone	2018-09	ug/L							< 10	< 10				
2-Hexanone	2018-11	ug/L											< 10	
2-Hexanone	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2019-04	ug/L												
2-Hexanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2020-03	ug/L		< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	2020-04	ug/L	< 10		< 10									
2-Hexanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
2-Hexanone	2021-03	ug/L				< 10								
2-Hexanone	2021-08	ug/L	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
2-Hexanone	2022-03	ug/L				< 10								
2-Hexanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
2-Hexanone	2023-03	ug/L				< 10								
2-Hexanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
2-Hexanone	2024-03	ug/L				< 10								
2-Hexanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
2-Methylnaphthalene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylnaphthalene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylnaphthalene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2-Methylnaphthalene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2-Methylnaphthalene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Methylnaphthalene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Methylnaphthalene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Methylnaphthalene	2012-03	ug/L												
2-Methylnaphthalene	2012-09	ug/L												
2-Methylnaphthalene	2013-03	ug/L												
2-Methylnaphthalene	2015-06	ug/L						< 10.5	< 11.1					
2-Methylnaphthalene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2-Methylnaphthalene	2015-10	ug/L			< 10.3	< 10.5								
2-Methylnaphthalene	2016-03	ug/L												
2-Methylnaphthalene	2016-06	ug/L					< 11.4							
2-Methylnaphthalene	2016-08	ug/L					< 11							
2-Methylnaphthalene	2018-11	ug/L											< 11.6	
2-Methylnaphthalene	2019-03	ug/L											< 12.2	
2-Methylnaphthalene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2-Methylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylphenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2-Methylphenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2-Methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Methylphenol	2015-06	ug/L						< 10.5	< 11.1					
2-Methylphenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2-Methylphenol	2015-10	ug/L			< 10.3	< 10.5								
2-Methylphenol	2016-03	ug/L												
2-Methylphenol	2016-06	ug/L					< 11.4							
2-Methylphenol	2016-08	ug/L					< 11							
2-Methylphenol	2018-11	ug/L											< 11.6	
2-Methylphenol	2019-03	ug/L											< 12.2	
2-Methylphenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2-Naphthylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Naphthylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Naphthylamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2-Naphthylamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2-Naphthylamine	2010-03	ug/L	< 10.0	**1.68 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Naphthylamine	2010-09	ug/L	< 10.0	**0.662 J**	< 10.0	< 10.0				< 10.0				
2-Naphthylamine	2011-03	ug/L	< 10.0	**1.32 J**	< 10.0	< 10.0				< 10.0				
2-Naphthylamine	2011-09	ug/L		**1.35 J**										
2-Naphthylamine	2012-03	ug/L		**0.800 J**										
2-Naphthylamine	2012-09	ug/L		< 10.0										
2-Naphthylamine	2013-03	ug/L		**0.342 J**										
2-Naphthylamine	2013-09	ug/L		**0.931 J**										
2-Naphthylamine	2015-06	ug/L						< 10.5	< 11.1					
2-Naphthylamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
2-Naphthylamine	2015-10	ug/L			< 10.3	< 10.5								
2-Naphthylamine	2016-03	ug/L												
2-Naphthylamine	2016-06	ug/L					< 11.4							
2-Naphthylamine	2016-08	ug/L					< 11							
2-Naphthylamine	2018-11	ug/L											< 11.6	
2-Naphthylamine	2019-03	ug/L											< 12.2	

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
2-Hexanone	2013-11	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Hexanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Hexanone	2014-06	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Hexanone	2014-09	ug/L	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
2-Hexanone	2015-03	ug/L	< 10.0	< 10.0	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
2-Hexanone	2015-06	ug/L											
2-Hexanone	2015-09	ug/L	< 10	< 10	< 10								
2-Hexanone	2015-10	ug/L				< 10	< 10	< 10		< 10	< 10		
2-Hexanone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
2-Hexanone	2016-06	ug/L											
2-Hexanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
2-Hexanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
2-Hexanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
2-Hexanone	2017-11	ug/L										< 10	< 10
2-Hexanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
2-Hexanone	2018-06	ug/L										< 10	< 10
2-Hexanone	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10		< 10			
2-Hexanone	2018-09	ug/L									< 10	< 10	< 10
2-Hexanone	2018-11	ug/L										< 10	< 10
2-Hexanone	2019-03	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	
2-Hexanone	2019-04	ug/L											< 10
2-Hexanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
2-Hexanone	2020-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
2-Hexanone	2020-04	ug/L											
2-Hexanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Hexanone	2021-03	ug/L	< 10		< 10	< 10							< 10
2-Hexanone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Hexanone	2022-03	ug/L	< 10		< 10	< 10							< 10
2-Hexanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Hexanone	2023-03	ug/L	< 10		< 10	< 10							< 10
2-Hexanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Hexanone	2024-03	ug/L	< 10		< 10	< 10							< 10
2-Hexanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
2-Methylnaphthalene	2008-08	ug/L	< 10	< 10	< 10								
2-Methylnaphthalene	2009-03	ug/L	< 10	< 10	< 10								
2-Methylnaphthalene	2009-07	ug/L	< 10	< 10	< 10.0								
2-Methylnaphthalene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Methylnaphthalene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Methylnaphthalene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Methylnaphthalene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Methylnaphthalene	2012-03	ug/L			< 10.0								
2-Methylnaphthalene	2012-09	ug/L			< 10.0								
2-Methylnaphthalene	2013-03	ug/L			< 10.4								
2-Methylnaphthalene	2015-06	ug/L											
2-Methylnaphthalene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2-Methylnaphthalene	2015-10	ug/L				< 10.6							
2-Methylnaphthalene	2016-03	ug/L			< 10	< 10							
2-Methylnaphthalene	2016-06	ug/L											
2-Methylnaphthalene	2016-08	ug/L			< 11.1	< 11.5							
2-Methylnaphthalene	2018-11	ug/L											
2-Methylnaphthalene	2019-03	ug/L											
2-Methylnaphthalene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2-Methylphenol	2008-08	ug/L	< 10	< 10	< 10								
2-Methylphenol	2009-03	ug/L	< 10	< 10	< 10								
2-Methylphenol	2009-07	ug/L	< 10	< 10	< 10.0								
2-Methylphenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Methylphenol	2015-06	ug/L											
2-Methylphenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2-Methylphenol	2015-10	ug/L				< 10.6							
2-Methylphenol	2016-03	ug/L			< 10	< 10							
2-Methylphenol	2016-06	ug/L											
2-Methylphenol	2016-08	ug/L			< 11.1	< 11.5							
2-Methylphenol	2018-11	ug/L											
2-Methylphenol	2019-03	ug/L											
2-Methylphenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2-Naphthylamine	2008-08	ug/L	< 10	< 10	< 10								
2-Naphthylamine	2009-03	ug/L	< 10	< 10	< 10								
2-Naphthylamine	2009-07	ug/L	< 10	< 10	< 10.0								
2-Naphthylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Naphthylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Naphthylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Naphthylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Naphthylamine	2011-09	ug/L			< 10.0								
2-Naphthylamine	2012-03	ug/L			< 10.0								
2-Naphthylamine	2012-09	ug/L			< 10.0								
2-Naphthylamine	2013-03	ug/L			< 10.4								
2-Naphthylamine	2013-09	ug/L											
2-Naphthylamine	2015-06	ug/L											
2-Naphthylamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2-Naphthylamine	2015-10	ug/L				< 10.6							
2-Naphthylamine	2016-03	ug/L			< 10	< 10							
2-Naphthylamine	2016-06	ug/L											
2-Naphthylamine	2016-08	ug/L			< 11.1	< 11.5							
2-Naphthylamine	2018-11	ug/L											
2-Naphthylamine	2019-03	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
2-Naphthylamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitroaniline	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
2-Nitroaniline	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Nitroaniline	2015-06	ug/L						< 10.5	< 11.1					
2-Nitroaniline	2015-09	ug/L	< 11.1	**1.42 J**				< 11.1	< 10.2	< 11.2	< 11.1			
2-Nitroaniline	2015-10	ug/L			< 10.3	< 10.5								
2-Nitroaniline	2016-03	ug/L												
2-Nitroaniline	2016-06	ug/L					< 11.4							
2-Nitroaniline	2016-08	ug/L					< 11							
2-Nitroaniline	2018-11	ug/L											< 11.6	
2-Nitroaniline	2019-03	ug/L											< 12.2	
2-Nitroaniline	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
2-Nitrophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitrophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitrophenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	**0.267 J**	< 10	< 10	< 10	< 10.0
2-Nitrophenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
2-Nitrophenol	2010-03	ug/L	< 10.0	**0.374 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Nitrophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Nitrophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
2-Nitrophenol	2011-09	ug/L		< 10.0						< 10.0				
2-Nitrophenol	2012-03	ug/L		< 10.0						< 10.0				
2-Nitrophenol	2012-09	ug/L		< 10.0						< 10.0				
2-Nitrophenol	2013-03	ug/L		**0.574 J**						< 10.9				
2-Nitrophenol	2013-09	ug/L		**1.85 J**						< 10.3				
2-Nitrophenol	2015-06	ug/L						< 10.5	< 11.1					
2-Nitrophenol	2015-09	ug/L	< 11.1	**2.67 J**				< 11.1	< 10.2	< 11.2	< 11.1			
2-Nitrophenol	2015-10	ug/L			< 10.3	< 10.5								
2-Nitrophenol	2016-03	ug/L												
2-Nitrophenol	2016-06	ug/L					< 11.4							
2-Nitrophenol	2016-08	ug/L					< 11							
2-Nitrophenol	2018-11	ug/L											< 11.6	
2-Nitrophenol	2019-03	ug/L											< 12.2	
2-Nitrophenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
3,3-Dichlorobenzidine	2008-08	ug/L	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85
3,3-Dichlorobenzidine	2009-03	ug/L	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85	< 85
3,3-Dichlorobenzidine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
3,3-Dichlorobenzidine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
3,3-Dichlorobenzidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
3,3-Dichlorobenzidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
3,3-Dichlorobenzidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
3,3-Dichlorobenzidine	2015-06	ug/L						< 52.6	< 55.6					
3,3-Dichlorobenzidine	2015-09	ug/L	< 55.6	< 56.2				< 55.6	< 51	< 56.2	< 55.6			
3,3-Dichlorobenzidine	2015-10	ug/L			< 51.5	< 52.6								
3,3-Dichlorobenzidine	2016-03	ug/L												
3,3-Dichlorobenzidine	2016-06	ug/L					< 56.8							
3,3-Dichlorobenzidine	2016-08	ug/L					< 54.9							
3,3-Dichlorobenzidine	2018-11	ug/L											< 11.6	
3,3-Dichlorobenzidine	2019-03	ug/L											< 12.2	
3,3-Dichlorobenzidine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
3,3-Dimethylbenzidine	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
3,3-Dimethylbenzidine	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
3,3-Dimethylbenzidine	2009-07	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0	< 20.0	< 20	< 20	< 20	< 20.0
3,3-Dimethylbenzidine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
3,3-Dimethylbenzidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
3,3-Dimethylbenzidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
3,3-Dimethylbenzidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
3,3-Dimethylbenzidine	2015-06	ug/L						< 10.5	< 11.1					
3,3-Dimethylbenzidine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
3,3-Dimethylbenzidine	2015-10	ug/L			< 10.3	< 10.5								
3,3-Dimethylbenzidine	2016-03	ug/L												
3,3-Dimethylbenzidine	2016-06	ug/L					< 11.4							
3,3-Dimethylbenzidine	2016-08	ug/L					< 11							
3,3-Dimethylbenzidine	2018-11	ug/L											< 11.6	
3,3-Dimethylbenzidine	2019-03	ug/L											< 12.2	
3,3-Dimethylbenzidine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
3-Methylcholanthrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3-Methylcholanthrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3-Methylcholanthrene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
3-Methylcholanthrene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
3-Methylcholanthrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
3-Methylcholanthrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
3-Methylcholanthrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
3-Methylcholanthrene	2015-06	ug/L						< 10.5	< 11.1					
3-Methylcholanthrene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
3-Methylcholanthrene	2015-10	ug/L			< 10.3	< 10.5								
3-Methylcholanthrene	2016-03	ug/L												
3-Methylcholanthrene	2016-06	ug/L					< 11.4							
3-Methylcholanthrene	2016-08	ug/L					< 11							
3-Methylcholanthrene	2018-11	ug/L											< 11.6	
3-Methylcholanthrene	2019-03	ug/L											< 12.2	
3-Methylcholanthrene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
3-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
2-Naphthylamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10								
2-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10								
2-Nitroaniline	2009-07	ug/L	< 10	< 10	< 10.0								
2-Nitroaniline	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Nitroaniline	2015-06	ug/L											
2-Nitroaniline	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2-Nitroaniline	2015-10	ug/L				< 10.6							
2-Nitroaniline	2016-03	ug/L			< 10	< 10							
2-Nitroaniline	2016-06	ug/L											
2-Nitroaniline	2016-08	ug/L			< 11.1	< 11.5							
2-Nitroaniline	2018-11	ug/L											
2-Nitroaniline	2019-03	ug/L											
2-Nitroaniline	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
2-Nitrophenol	2008-08	ug/L	< 10	< 10	< 10								
2-Nitrophenol	2009-03	ug/L	< 10	< 10	< 10								
2-Nitrophenol	2009-07	ug/L	< 10	< 10	< 10.0								
2-Nitrophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Nitrophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Nitrophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
2-Nitrophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
2-Nitrophenol	2011-09	ug/L			< 10.0								
2-Nitrophenol	2012-03	ug/L			< 10.0								
2-Nitrophenol	2012-09	ug/L			< 10.0								
2-Nitrophenol	2013-03	ug/L			< 10.4								
2-Nitrophenol	2013-09	ug/L											
2-Nitrophenol	2015-06	ug/L											
2-Nitrophenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
2-Nitrophenol	2015-10	ug/L				< 10.6							
2-Nitrophenol	2016-03	ug/L			< 10	< 10							
2-Nitrophenol	2016-06	ug/L											
2-Nitrophenol	2016-08	ug/L			< 11.1	< 11.5							
2-Nitrophenol	2018-11	ug/L											
2-Nitrophenol	2019-03	ug/L											
2-Nitrophenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
3,3-Dichlorobenzidine	2008-08	ug/L	< 85	< 85	< 85								
3,3-Dichlorobenzidine	2009-03	ug/L	< 85	< 85	< 85								
3,3-Dichlorobenzidine	2009-07	ug/L	< 10	< 10	< 10.0								
3,3-Dichlorobenzidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
3,3-Dichlorobenzidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
3,3-Dichlorobenzidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
3,3-Dichlorobenzidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
3,3-Dichlorobenzidine	2015-06	ug/L											
3,3-Dichlorobenzidine	2015-09	ug/L	< 54.3	< 52.6	< 56.2								
3,3-Dichlorobenzidine	2015-10	ug/L				< 53.2							
3,3-Dichlorobenzidine	2016-03	ug/L			< 50	< 50							
3,3-Dichlorobenzidine	2016-06	ug/L											
3,3-Dichlorobenzidine	2016-08	ug/L			< 55.6	< 57.5							
3,3-Dichlorobenzidine	2018-11	ug/L											
3,3-Dichlorobenzidine	2019-03	ug/L											
3,3-Dichlorobenzidine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
3,3-Dimethylbenzidine	2008-08	ug/L	< 20	< 20	< 20								
3,3-Dimethylbenzidine	2009-03	ug/L	< 20	< 20	< 20								
3,3-Dimethylbenzidine	2009-07	ug/L	< 20	< 20	< 20.0								
3,3-Dimethylbenzidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
3,3-Dimethylbenzidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
3,3-Dimethylbenzidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
3,3-Dimethylbenzidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
3,3-Dimethylbenzidine	2015-06	ug/L											
3,3-Dimethylbenzidine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
3,3-Dimethylbenzidine	2015-10	ug/L				< 10.6							
3,3-Dimethylbenzidine	2016-03	ug/L			< 10	< 10							
3,3-Dimethylbenzidine	2016-06	ug/L											
3,3-Dimethylbenzidine	2016-08	ug/L			< 11.1	< 11.5							
3,3-Dimethylbenzidine	2018-11	ug/L											
3,3-Dimethylbenzidine	2019-03	ug/L											
3,3-Dimethylbenzidine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
3-Methylcholanthrene	2008-08	ug/L	< 10	< 10	< 10								
3-Methylcholanthrene	2009-03	ug/L	< 10	< 10	< 10								
3-Methylcholanthrene	2009-07	ug/L	< 10	< 10	< 10.0								
3-Methylcholanthrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
3-Methylcholanthrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
3-Methylcholanthrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
3-Methylcholanthrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
3-Methylcholanthrene	2015-06	ug/L											
3-Methylcholanthrene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
3-Methylcholanthrene	2015-10	ug/L				< 10.6							
3-Methylcholanthrene	2016-03	ug/L			< 10	< 10							
3-Methylcholanthrene	2016-06	ug/L											
3-Methylcholanthrene	2016-08	ug/L			< 11.1	< 11.5							
3-Methylcholanthrene	2018-11	ug/L											
3-Methylcholanthrene	2019-03	ug/L											
3-Methylcholanthrene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
3-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10								
3-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
3-Nitroaniline	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
3-Nitroaniline	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
3-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**0.391 J**	< 10.0	< 10.0	< 10.0	< 10.0
3-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
3-Nitroaniline	2011-03	ug/L	< 10.0	**0.960 J**	< 10.0	< 10.0				< 10.0				
3-Nitroaniline	2011-09	ug/L		< 10.0						< 10.0				
3-Nitroaniline	2012-03	ug/L		< 10.0						< 10.0				
3-Nitroaniline	2012-09	ug/L		< 10.0						< 10.0				
3-Nitroaniline	2013-03	ug/L		< 10.2						< 10.9				
3-Nitroaniline	2013-09	ug/L		< 11.0						< 10.3				
3-Nitroaniline	2015-06	ug/L						< 10.5	< 11.1					
3-Nitroaniline	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
3-Nitroaniline	2015-10	ug/L			< 10.3	< 10.5								
3-Nitroaniline	2016-03	ug/L												
3-Nitroaniline	2016-06	ug/L					< 11.4							
3-Nitroaniline	2016-08	ug/L					< 11							
3-Nitroaniline	2018-11	ug/L											< 11.6	
3-Nitroaniline	2019-03	ug/L											< 12.2	
3-Nitroaniline	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
4,4'-DDD	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
4,4'-DDD	2008-09	ug/L										< 0.016		< 0.016
4,4'-DDD	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
4,4'-DDD	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
4,4'-DDD	2015-06	ug/L						< 0.0348	< 0.032					
4,4'-DDD	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
4,4'-DDD	2015-10	ug/L			< 0.0372	< 0.0364								
4,4'-DDD	2016-03	ug/L												
4,4'-DDD	2016-06	ug/L					< 0.0364							
4,4'-DDD	2016-08	ug/L					< 0.0337							
4,4'-DDD	2018-11	ug/L											< 0.036	
4,4'-DDD	2019-03	ug/L											< 0.0372	
4,4'-DDD	2020-08	ug/L	< 0.0376	**0.00385 J**	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
4,4'-DDE	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
4,4'-DDE	2008-09	ug/L										< 0.016		< 0.016
4,4'-DDE	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
4,4'-DDE	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
4,4'-DDE	2015-06	ug/L						< 0.0348	< 0.032					
4,4'-DDE	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
4,4'-DDE	2015-10	ug/L			< 0.0372	< 0.0364								
4,4'-DDE	2016-03	ug/L												
4,4'-DDE	2016-06	ug/L					< 0.0364							
4,4'-DDE	2016-08	ug/L					< 0.0337							
4,4'-DDE	2018-11	ug/L											< 0.036	
4,4'-DDE	2019-03	ug/L											< 0.0372	
4,4'-DDE	2020-08	ug/L	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
4,4'-DDT	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
4,4'-DDT	2008-09	ug/L										< 0.016		< 0.016
4,4'-DDT	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
4,4'-DDT	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
4,4'-DDT	2013-03	ug/L												
4,4'-DDT	2014-03	ug/L												
4,4'-DDT	2014-09	ug/L												
4,4'-DDT	2015-03	ug/L												
4,4'-DDT	2015-06	ug/L						< 0.0348	< 0.032					
4,4'-DDT	2015-09	ug/L	**0.00782 J**	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
4,4'-DDT	2015-10	ug/L			< 0.0372	< 0.0364								
4,4'-DDT	2016-03	ug/L												
4,4'-DDT	2016-06	ug/L					< 0.0364							
4,4'-DDT	2016-08	ug/L					< 0.0337							
4,4'-DDT	2017-03	ug/L												
4,4'-DDT	2017-08	ug/L												
4,4'-DDT	2018-11	ug/L											< 0.036	
4,4'-DDT	2019-03	ug/L											< 0.0372	
4,4'-DDT	2020-08	ug/L	**0.0104 J**	< 0.039	< 0.0376	**0.00473 J**	< 0.0376	**0.00561 J**	< 0.039	< 0.0376	< 0.039			
4,6-Dinitro-2-methylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
4,6-Dinitro-2-methylphenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
4,6-Dinitro-2-methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4,6-Dinitro-2-methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4,6-Dinitro-2-methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4,6-Dinitro-2-methylphenol	2015-06	ug/L						< 10.5	< 11.1					
4,6-Dinitro-2-methylphenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
4,6-Dinitro-2-methylphenol	2015-10	ug/L			< 10.3	< 10.5								
4,6-Dinitro-2-methylphenol	2016-03	ug/L												
4,6-Dinitro-2-methylphenol	2016-06	ug/L					< 11.4							
4,6-Dinitro-2-methylphenol	2016-08	ug/L					< 11							
4,6-Dinitro-2-methylphenol	2018-11	ug/L											< 11.6	
4,6-Dinitro-2-methylphenol	2019-03	ug/L											< 12.2	
4,6-Dinitro-2-methylphenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
4-Aminobiphenyl	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
4-Aminobiphenyl	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
4-Aminobiphenyl	2009-07	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0	< 20.0	< 20	< 20	< 20	< 20.0
4-Aminobiphenyl	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
4-Aminobiphenyl	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Aminobiphenyl	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Aminobiphenyl	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Aminobiphenyl	2015-06	ug/L						< 10.5	< 11.1					

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
3-Nitroaniline	2009-07	ug/L	< 10	< 10	< 10.0								
3-Nitroaniline	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
3-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
3-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
3-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
3-Nitroaniline	2011-09	ug/L			< 10.0								
3-Nitroaniline	2012-03	ug/L			< 10.0								
3-Nitroaniline	2012-09	ug/L			< 10.0								
3-Nitroaniline	2013-03	ug/L			< 10.4								
3-Nitroaniline	2013-09	ug/L											
3-Nitroaniline	2015-06	ug/L											
3-Nitroaniline	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
3-Nitroaniline	2015-10	ug/L				< 10.6							
3-Nitroaniline	2016-03	ug/L			< 10	< 10							
3-Nitroaniline	2016-06	ug/L											
3-Nitroaniline	2016-08	ug/L			< 11.1	< 11.5							
3-Nitroaniline	2018-11	ug/L											
3-Nitroaniline	2019-03	ug/L											
3-Nitroaniline	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
4,4'-DDD	2008-08	ug/L	< 0.047	< 0.053									
4,4'-DDD	2008-09	ug/L			< 0.016								
4,4'-DDD	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
4,4'-DDD	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
4,4'-DDD	2015-06	ug/L											
4,4'-DDD	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
4,4'-DDD	2015-10	ug/L				**0.00206 J**							
4,4'-DDD	2016-03	ug/L			< 0.034	< 0.0356							
4,4'-DDD	2016-06	ug/L											
4,4'-DDD	2016-08	ug/L			< 0.0356	< 0.0327							
4,4'-DDD	2018-11	ug/L											
4,4'-DDD	2019-03	ug/L											
4,4'-DDD	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
4,4'-DDE	2008-08	ug/L	< 0.047	< 0.053									
4,4'-DDE	2008-09	ug/L			< 0.016								
4,4'-DDE	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
4,4'-DDE	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
4,4'-DDE	2015-06	ug/L											
4,4'-DDE	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
4,4'-DDE	2015-10	ug/L				< 0.0364							
4,4'-DDE	2016-03	ug/L			< 0.034	< 0.0356 J							
4,4'-DDE	2016-06	ug/L											
4,4'-DDE	2016-08	ug/L			< 0.0356	< 0.0327							
4,4'-DDE	2018-11	ug/L											
4,4'-DDE	2019-03	ug/L											
4,4'-DDE	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
4,4'-DDT	2008-08	ug/L	< 0.047	< 0.053									
4,4'-DDT	2008-09	ug/L			< 0.016								
4,4'-DDT	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
4,4'-DDT	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
4,4'-DDT	2013-03	ug/L			< 0.0344								
4,4'-DDT	2014-03	ug/L			< 0.0330								
4,4'-DDT	2014-09	ug/L			< 0.032								
4,4'-DDT	2015-03	ug/L			< 0.0337								
4,4'-DDT	2015-06	ug/L											
4,4'-DDT	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
4,4'-DDT	2015-10	ug/L				< 0.0364							
4,4'-DDT	2016-03	ug/L			< 0.034	< 0.0356							
4,4'-DDT	2016-06	ug/L											
4,4'-DDT	2016-08	ug/L			< 0.0356	< 0.0327							
4,4'-DDT	2017-03	ug/L			< 0.0337	< 0.0356							
4,4'-DDT	2017-08	ug/L			< 0.0337	< 0.0344							
4,4'-DDT	2018-11	ug/L											
4,4'-DDT	2019-03	ug/L											
4,4'-DDT	2020-08	ug/L	< 0.0376	**0.00479 J**	< 0.039	< 0.0376							
4,6-Dinitro-2-methylphenol	2008-08	ug/L	< 10	< 10	< 10								
4,6-Dinitro-2-methylphenol	2009-03	ug/L	< 10	< 10	< 10								
4,6-Dinitro-2-methylphenol	2009-07	ug/L	< 10	< 10	< 10.0								
4,6-Dinitro-2-methylphenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
4,6-Dinitro-2-methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
4,6-Dinitro-2-methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
4,6-Dinitro-2-methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
4,6-Dinitro-2-methylphenol	2015-06	ug/L											
4,6-Dinitro-2-methylphenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
4,6-Dinitro-2-methylphenol	2015-10	ug/L				< 10.6							
4,6-Dinitro-2-methylphenol	2016-03	ug/L			< 10	< 10							
4,6-Dinitro-2-methylphenol	2016-06	ug/L											
4,6-Dinitro-2-methylphenol	2016-08	ug/L			< 11.1	< 11.5							
4,6-Dinitro-2-methylphenol	2018-11	ug/L											
4,6-Dinitro-2-methylphenol	2019-03	ug/L											
4,6-Dinitro-2-methylphenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
4-Aminobiphenyl	2008-08	ug/L	< 20	< 20	< 20								
4-Aminobiphenyl	2009-03	ug/L	< 20	< 20	< 20								
4-Aminobiphenyl	2009-07	ug/L	< 20	< 20	< 20.0								
4-Aminobiphenyl	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Aminobiphenyl	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Aminobiphenyl	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Aminobiphenyl	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Aminobiphenyl	2015-06	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
4-Aminobiphenyl	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
4-Aminobiphenyl	2015-10	ug/L			< 10.3	< 10.5								
4-Aminobiphenyl	2016-03	ug/L												
4-Aminobiphenyl	2016-06	ug/L					< 11.4							
4-Aminobiphenyl	2016-08	ug/L					< 11							
4-Aminobiphenyl	2018-11	ug/L											< 11.6	
4-Aminobiphenyl	2019-03	ug/L											< 12.2	
4-Aminobiphenyl	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
4-Bromophenyl Phenyl Ether	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Bromophenyl Phenyl Ether	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Bromophenyl Phenyl Ether	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
4-Bromophenyl Phenyl Ether	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
4-Bromophenyl Phenyl Ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Bromophenyl Phenyl Ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Bromophenyl Phenyl Ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Bromophenyl Phenyl Ether	2015-06	ug/L						< 10.5	< 11.1					
4-Bromophenyl Phenyl Ether	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
4-Bromophenyl Phenyl Ether	2015-10	ug/L			< 10.3	< 10.5								
4-Bromophenyl Phenyl Ether	2016-03	ug/L												
4-Bromophenyl Phenyl Ether	2016-06	ug/L					< 11.4							
4-Bromophenyl Phenyl Ether	2016-08	ug/L					< 11							
4-Bromophenyl Phenyl Ether	2018-11	ug/L											< 11.6	
4-Bromophenyl Phenyl Ether	2019-03	ug/L											< 12.2	
4-Bromophenyl Phenyl Ether	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
4-Chloro-3-methylphenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chloro-3-methylphenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chloro-3-methylphenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
4-Chloro-3-methylphenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
4-Chloro-3-methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Chloro-3-methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Chloro-3-methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Chloro-3-methylphenol	2015-06	ug/L						< 10.5	< 11.1					
4-Chloro-3-methylphenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
4-Chloro-3-methylphenol	2015-10	ug/L			< 10.3	< 10.5								
4-Chloro-3-methylphenol	2016-03	ug/L												
4-Chloro-3-methylphenol	2016-06	ug/L					< 11.4							
4-Chloro-3-methylphenol	2016-08	ug/L					< 11							
4-Chloro-3-methylphenol	2018-11	ug/L											< 11.6	
4-Chloro-3-methylphenol	2019-03	ug/L											< 12.2	
4-Chloro-3-methylphenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
4-Chloroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chloroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chloroaniline	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
4-Chloroaniline	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
4-Chloroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Chloroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Chloroaniline	2011-03	ug/L	< 10.0	**0.172 J**	< 10.0	< 10.0				< 10.0				
4-Chloroaniline	2011-09	ug/L		< 10.0										
4-Chloroaniline	2012-03	ug/L		**0.142 J**										
4-Chloroaniline	2012-09	ug/L		< 10.0										
4-Chloroaniline	2013-03	ug/L		< 10.2										
4-Chloroaniline	2013-09	ug/L		< 11.0										
4-Chloroaniline	2015-06	ug/L						< 10.5	< 11.1					
4-Chloroaniline	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
4-Chloroaniline	2015-10	ug/L			< 10.3	< 10.5								
4-Chloroaniline	2016-03	ug/L												
4-Chloroaniline	2016-06	ug/L					< 11.4							
4-Chloroaniline	2016-08	ug/L					< 11							
4-Chloroaniline	2018-11	ug/L											< 11.6	
4-Chloroaniline	2019-03	ug/L											< 12.2	
4-Chloroaniline	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
4-Chlorophenyl Phenyl Ether	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorophenyl Phenyl Ether	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorophenyl Phenyl Ether	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
4-Chlorophenyl Phenyl Ether	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
4-Chlorophenyl Phenyl Ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Chlorophenyl Phenyl Ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Chlorophenyl Phenyl Ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Chlorophenyl Phenyl Ether	2015-06	ug/L						< 10.5	< 11.1					
4-Chlorophenyl Phenyl Ether	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
4-Chlorophenyl Phenyl Ether	2015-10	ug/L			< 10.3	< 10.5								
4-Chlorophenyl Phenyl Ether	2016-03	ug/L												
4-Chlorophenyl Phenyl Ether	2016-06	ug/L					< 11.4							
4-Chlorophenyl Phenyl Ether	2016-08	ug/L					< 11							
4-Chlorophenyl Phenyl Ether	2018-11	ug/L											< 11.6	
4-Chlorophenyl Phenyl Ether	2019-03	ug/L											< 12.2	
4-Chlorophenyl Phenyl Ether	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
4-Methyl-2-pentanone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
4-Methyl-2-pentanone	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
4-Methyl-2-pentanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2013-03	ug/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
4-Aminobiphenyl	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
4-Aminobiphenyl	2015-10	ug/L				< 10.6							
4-Aminobiphenyl	2016-03	ug/L			< 10	< 10							
4-Aminobiphenyl	2016-06	ug/L											
4-Aminobiphenyl	2016-08	ug/L			< 11.1	< 11.5							
4-Aminobiphenyl	2018-11	ug/L											
4-Aminobiphenyl	2019-03	ug/L											
4-Aminobiphenyl	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
4-Bromophenyl Phenyl Ether	2008-08	ug/L	< 10	< 10	< 10								
4-Bromophenyl Phenyl Ether	2009-03	ug/L	< 10	< 10	< 10								
4-Bromophenyl Phenyl Ether	2009-07	ug/L	< 10	< 10	< 10.0								
4-Bromophenyl Phenyl Ether	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Bromophenyl Phenyl Ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Bromophenyl Phenyl Ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Bromophenyl Phenyl Ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Bromophenyl Phenyl Ether	2015-06	ug/L											
4-Bromophenyl Phenyl Ether	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
4-Bromophenyl Phenyl Ether	2015-10	ug/L				< 10.6							
4-Bromophenyl Phenyl Ether	2016-03	ug/L			< 10	< 10							
4-Bromophenyl Phenyl Ether	2016-06	ug/L											
4-Bromophenyl Phenyl Ether	2016-08	ug/L			< 11.1	< 11.5							
4-Bromophenyl Phenyl Ether	2018-11	ug/L											
4-Bromophenyl Phenyl Ether	2019-03	ug/L											
4-Bromophenyl Phenyl Ether	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
4-Chloro-3-methylphenol	2008-08	ug/L	< 10	< 10	< 10								
4-Chloro-3-methylphenol	2009-03	ug/L	< 10	< 10	< 10								
4-Chloro-3-methylphenol	2009-07	ug/L	< 10	< 10	< 10.0								
4-Chloro-3-methylphenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Chloro-3-methylphenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Chloro-3-methylphenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Chloro-3-methylphenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Chloro-3-methylphenol	2015-06	ug/L											
4-Chloro-3-methylphenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
4-Chloro-3-methylphenol	2015-10	ug/L				< 10.6							
4-Chloro-3-methylphenol	2016-03	ug/L			< 10	< 10							
4-Chloro-3-methylphenol	2016-06	ug/L											
4-Chloro-3-methylphenol	2016-08	ug/L			< 11.1	< 11.5							
4-Chloro-3-methylphenol	2018-11	ug/L											
4-Chloro-3-methylphenol	2019-03	ug/L											
4-Chloro-3-methylphenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
4-Chloroaniline	2008-08	ug/L	< 10	< 10	< 10								
4-Chloroaniline	2009-03	ug/L	< 10	< 10	< 10								
4-Chloroaniline	2009-07	ug/L	< 10	< 10	< 10.0								
4-Chloroaniline	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Chloroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Chloroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Chloroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Chloroaniline	2011-09	ug/L			< 10.0								
4-Chloroaniline	2012-03	ug/L			< 10.0								
4-Chloroaniline	2012-09	ug/L			< 10.0								
4-Chloroaniline	2013-03	ug/L			< 10.4								
4-Chloroaniline	2013-09	ug/L											
4-Chloroaniline	2015-06	ug/L											
4-Chloroaniline	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
4-Chloroaniline	2015-10	ug/L				< 10.6							
4-Chloroaniline	2016-03	ug/L			< 10	< 10							
4-Chloroaniline	2016-06	ug/L											
4-Chloroaniline	2016-08	ug/L			< 11.1	< 11.5							
4-Chloroaniline	2018-11	ug/L											
4-Chloroaniline	2019-03	ug/L											
4-Chloroaniline	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
4-Chlorophenyl Phenyl Ether	2008-08	ug/L	< 10	< 10	< 10								
4-Chlorophenyl Phenyl Ether	2009-03	ug/L	< 10	< 10	< 10								
4-Chlorophenyl Phenyl Ether	2009-07	ug/L	< 10	< 10	< 10.0								
4-Chlorophenyl Phenyl Ether	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Chlorophenyl Phenyl Ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Chlorophenyl Phenyl Ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Chlorophenyl Phenyl Ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Chlorophenyl Phenyl Ether	2015-06	ug/L											
4-Chlorophenyl Phenyl Ether	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
4-Chlorophenyl Phenyl Ether	2015-10	ug/L				< 10.6							
4-Chlorophenyl Phenyl Ether	2016-03	ug/L			< 10	< 10							
4-Chlorophenyl Phenyl Ether	2016-06	ug/L											
4-Chlorophenyl Phenyl Ether	2016-08	ug/L			< 11.1	< 11.5							
4-Chlorophenyl Phenyl Ether	2018-11	ug/L											
4-Chlorophenyl Phenyl Ether	2019-03	ug/L											
4-Chlorophenyl Phenyl Ether	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
4-Methyl-2-pentanone	2008-08	ug/L	< 10	< 10	< 10								
4-Methyl-2-pentanone	2009-03	ug/L	< 10	< 10	< 10								
4-Methyl-2-pentanone	2009-07	ug/L	< 10	< 10									
4-Methyl-2-pentanone	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2011-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2012-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Methyl-2-pentanone	2013-03	ug/L	< 10	< 10	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
4-Methyl-2-pentanone	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2013-11	ug/L												
4-Methyl-2-pentanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Methyl-2-pentanone	2014-06	ug/L												
4-Methyl-2-pentanone	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2015-03	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0
4-Methyl-2-pentanone	2015-06	ug/L						< 10	< 10					
4-Methyl-2-pentanone	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
4-Methyl-2-pentanone	2015-10	ug/L			< 10	< 10							< 10	< 10
4-Methyl-2-pentanone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2016-06	ug/L					< 10							
4-Methyl-2-pentanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2017-11	ug/L												
4-Methyl-2-pentanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2018-06	ug/L												
4-Methyl-2-pentanone	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2018-09	ug/L							< 10	< 10				
4-Methyl-2-pentanone	2018-11	ug/L											< 10	
4-Methyl-2-pentanone	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2019-04	ug/L												
4-Methyl-2-pentanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2020-03	ug/L		< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2020-04	ug/L	< 10		< 10									
4-Methyl-2-pentanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
4-Methyl-2-pentanone	2021-03	ug/L				< 10								
4-Methyl-2-pentanone	2021-08	ug/L	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
4-Methyl-2-pentanone	2022-03	ug/L				< 10								
4-Methyl-2-pentanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
4-Methyl-2-pentanone	2023-03	ug/L				< 10								
4-Methyl-2-pentanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
4-Methyl-2-pentanone	2024-03	ug/L				< 10								
4-Methyl-2-pentanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
4-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Nitroaniline	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
4-Nitroaniline	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
4-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Nitroaniline	2015-06	ug/L						< 10.5	< 11.1					
4-Nitroaniline	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
4-Nitroaniline	2015-10	ug/L			< 10.3	< 10.5								
4-Nitroaniline	2016-03	ug/L												
4-Nitroaniline	2016-06	ug/L					< 11.4							
4-Nitroaniline	2016-08	ug/L					< 11							
4-Nitroaniline	2018-11	ug/L											< 11.6	
4-Nitroaniline	2019-03	ug/L											< 12.2	
4-Nitroaniline	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
4-Nitrophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Nitrophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Nitrophenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
4-Nitrophenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
4-Nitrophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Nitrophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
4-Nitrophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				**0.159 J**				
4-Nitrophenol	2011-09	ug/L								< 10.0				
4-Nitrophenol	2012-03	ug/L								< 10.0				
4-Nitrophenol	2012-09	ug/L								< 10.0				
4-Nitrophenol	2013-03	ug/L								< 10.9				
4-Nitrophenol	2013-09	ug/L								< 10.3				
4-Nitrophenol	2015-06	ug/L						< 10.5	< 11.1					
4-Nitrophenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
4-Nitrophenol	2015-10	ug/L			< 10.3	< 10.5								
4-Nitrophenol	2016-03	ug/L												
4-Nitrophenol	2016-06	ug/L					< 11.4							
4-Nitrophenol	2016-08	ug/L					< 11							
4-Nitrophenol	2018-11	ug/L											< 11.6	
4-Nitrophenol	2019-03	ug/L											< 12.2	
4-Nitrophenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
5-Nitro-o-toluidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
5-Nitro-o-toluidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
5-Nitro-o-toluidine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
5-Nitro-o-toluidine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
5-Nitro-o-toluidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
5-Nitro-o-toluidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
5-Nitro-o-toluidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
5-Nitro-o-toluidine	2015-06	ug/L						< 10.5	< 11.1					
5-Nitro-o-toluidine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
5-Nitro-o-toluidine	2015-10	ug/L			< 10.3	< 10.5								
5-Nitro-o-toluidine	2016-03	ug/L												
5-Nitro-o-toluidine	2016-06	ug/L					< 11.4							
5-Nitro-o-toluidine	2016-08	ug/L					< 11							
5-Nitro-o-toluidine	2018-11	ug/L											< 11.6	
5-Nitro-o-toluidine	2019-03	ug/L											< 12.2	
5-Nitro-o-toluidine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
7,12-Dimethylbenz(a)anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
4-Methyl-2-pentanone	2013-09	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2013-11	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2014-03	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2014-06	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2014-09	ug/L	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
4-Methyl-2-pentanone	2015-03	ug/L	< 10.0	< 10.0	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
4-Methyl-2-pentanone	2015-06	ug/L											
4-Methyl-2-pentanone	2015-09	ug/L	< 10	< 10	< 10								
4-Methyl-2-pentanone	2015-10	ug/L				< 10	< 10	< 10		< 10	< 10		
4-Methyl-2-pentanone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
4-Methyl-2-pentanone	2016-06	ug/L											
4-Methyl-2-pentanone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
4-Methyl-2-pentanone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
4-Methyl-2-pentanone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
4-Methyl-2-pentanone	2017-11	ug/L										< 10	< 10
4-Methyl-2-pentanone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2018-06	ug/L										< 10	< 10
4-Methyl-2-pentanone	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10		< 10			
4-Methyl-2-pentanone	2018-09	ug/L									< 10	< 10	< 10
4-Methyl-2-pentanone	2018-11	ug/L										< 10	< 10
4-Methyl-2-pentanone	2019-03	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	
4-Methyl-2-pentanone	2019-04	ug/L											< 10
4-Methyl-2-pentanone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2020-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2020-04	ug/L											
4-Methyl-2-pentanone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2021-03	ug/L	< 10		< 10	< 10							< 10
4-Methyl-2-pentanone	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2022-03	ug/L	< 10		< 10	< 10							< 10
4-Methyl-2-pentanone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2023-03	ug/L	< 10		< 10	< 10							< 10
4-Methyl-2-pentanone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	2024-03	ug/L	< 10		< 10	< 10							< 10
4-Methyl-2-pentanone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
4-Nitroaniline	2008-08	ug/L	< 10	< 10	< 10								
4-Nitroaniline	2009-03	ug/L	< 10	< 10	< 10								
4-Nitroaniline	2009-07	ug/L	< 10	< 10	< 10.0								
4-Nitroaniline	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Nitroaniline	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Nitroaniline	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Nitroaniline	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Nitroaniline	2015-06	ug/L											
4-Nitroaniline	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
4-Nitroaniline	2015-10	ug/L				< 10.6							
4-Nitroaniline	2016-03	ug/L			< 10	< 10							
4-Nitroaniline	2016-06	ug/L											
4-Nitroaniline	2016-08	ug/L			< 11.1	< 11.5							
4-Nitroaniline	2018-11	ug/L											
4-Nitroaniline	2019-03	ug/L											
4-Nitroaniline	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
4-Nitrophenol	2008-08	ug/L	< 10	< 10	< 10								
4-Nitrophenol	2009-03	ug/L	< 10	< 10	< 10								
4-Nitrophenol	2009-07	ug/L	< 10	< 10	< 10.0								
4-Nitrophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Nitrophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Nitrophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
4-Nitrophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
4-Nitrophenol	2011-09	ug/L			< 10.0								
4-Nitrophenol	2012-03	ug/L			< 10.0								
4-Nitrophenol	2012-09	ug/L			< 10.0								
4-Nitrophenol	2013-03	ug/L			< 10.4								
4-Nitrophenol	2013-09	ug/L											
4-Nitrophenol	2015-06	ug/L											
4-Nitrophenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
4-Nitrophenol	2015-10	ug/L				< 10.6							
4-Nitrophenol	2016-03	ug/L			< 10	< 10							
4-Nitrophenol	2016-06	ug/L											
4-Nitrophenol	2016-08	ug/L			< 11.1	< 11.5							
4-Nitrophenol	2018-11	ug/L											
4-Nitrophenol	2019-03	ug/L											
4-Nitrophenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
5-Nitro-o-toluidine	2008-08	ug/L	< 10	< 10	< 10								
5-Nitro-o-toluidine	2009-03	ug/L	< 10	< 10	< 10								
5-Nitro-o-toluidine	2009-07	ug/L	< 10	< 10	< 10.0								
5-Nitro-o-toluidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
5-Nitro-o-toluidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
5-Nitro-o-toluidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
5-Nitro-o-toluidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
5-Nitro-o-toluidine	2015-06	ug/L											
5-Nitro-o-toluidine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
5-Nitro-o-toluidine	2015-10	ug/L				< 10.6							
5-Nitro-o-toluidine	2016-03	ug/L			< 10	< 10							
5-Nitro-o-toluidine	2016-06	ug/L											
5-Nitro-o-toluidine	2016-08	ug/L			< 11.1	< 11.5							
5-Nitro-o-toluidine	2018-11	ug/L											
5-Nitro-o-toluidine	2019-03	ug/L											
5-Nitro-o-toluidine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
7,12-Dimethylbenz(a)anthracene	2008-08	ug/L	< 10	< 10	< 10								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
7,12-Dimethylbenz(a)anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
7,12-Dimethylbenz(a)anthracene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
7,12-Dimethylbenz(a)anthracene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
7,12-Dimethylbenz(a)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
7,12-Dimethylbenz(a)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
7,12-Dimethylbenz(a)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
7,12-Dimethylbenz(a)anthracene	2015-06	ug/L						< 10.5	< 11.1					
7,12-Dimethylbenz(a)anthracene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
7,12-Dimethylbenz(a)anthracene	2015-10	ug/L			< 10.3	< 10.5								
7,12-Dimethylbenz(a)anthracene	2016-03	ug/L												
7,12-Dimethylbenz(a)anthracene	2016-06	ug/L					< 11.4							
7,12-Dimethylbenz(a)anthracene	2016-08	ug/L					< 11							
7,12-Dimethylbenz(a)anthracene	2018-11	ug/L											< 11.6	
7,12-Dimethylbenz(a)anthracene	2019-03	ug/L											< 12.2	
7,12-Dimethylbenz(a)anthracene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Acenaphthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Acenaphthene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Acenaphthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acenaphthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Acenaphthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Acenaphthene	2015-06	ug/L						< 10.5	< 11.1					
Acenaphthene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Acenaphthene	2015-10	ug/L			< 10.3	< 10.5								
Acenaphthene	2016-03	ug/L												
Acenaphthene	2016-06	ug/L					< 11.4							
Acenaphthene	2016-08	ug/L					< 11							
Acenaphthene	2018-11	ug/L											< 11.6	
Acenaphthene	2019-03	ug/L											< 12.2	
Acenaphthene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Acenaphthylene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Acenaphthylene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Acenaphthylene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acenaphthylene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Acenaphthylene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Acenaphthylene	2015-06	ug/L						< 10.5	< 11.1					
Acenaphthylene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Acenaphthylene	2015-10	ug/L			< 10.3	< 10.5								
Acenaphthylene	2016-03	ug/L												
Acenaphthylene	2016-06	ug/L					< 11.4							
Acenaphthylene	2016-08	ug/L					< 11							
Acenaphthylene	2018-11	ug/L											< 11.6	
Acenaphthylene	2019-03	ug/L											< 12.2	
Acenaphthylene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Acetone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
Acetone	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
Acetone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2013-03	ug/L	< 10.0	**2.21 J**	< 10	**3.07 J**	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
Acetone	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2013-11	ug/L												
Acetone	2014-03	ug/L	< 10.0 J	**37.1**	**3.23 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 J	< 10.0	< 10.0	< 10.0	< 10.0
Acetone	2014-06	ug/L												
Acetone	2014-09	ug/L	< 10	< 10	< 10	< 10 J	< 10	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2015-03	ug/L	< 10.0	< 10 J	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0 J	< 10	< 10	< 10.0	< 10.0
Acetone	2015-06	ug/L						< 10	< 10					
Acetone	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
Acetone	2015-10	ug/L			< 10	**5.99 J**							< 10	< 10
Acetone	2016-03	ug/L	< 10	**4.76 J**	< 10 J	< 10	< 10	< 10 J	< 10	< 10 J	< 10	< 10	< 10	< 10
Acetone	2016-06	ug/L					< 10							
Acetone	2016-08	ug/L	< 10	< 10	< 10	**3.57 J**	< 10	< 10	< 10	**3.44 J**	< 10	< 10	< 10	< 10
Acetone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**4.29 J**	< 10	< 10	< 10	< 10
Acetone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2017-11	ug/L												
Acetone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2018-06	ug/L												
Acetone	2018-08	ug/L	< 10	**4.8 J**	< 10	**3.31 J**	< 10	< 10			< 10	< 10	< 10	< 10
Acetone	2018-09	ug/L							< 10	**3.41 J**				
Acetone	2018-11	ug/L											< 10	
Acetone	2019-03	ug/L	< 10	**3.31 J**	< 10	**5.17 J**	< 10	**4.91 J**	**5.09 J**	**9.99 J**	< 10	< 10	< 10	< 10
Acetone	2019-04	ug/L												
Acetone	2019-08	ug/L	< 10	**4.05 J**	< 10	< 10	< 10	< 10	< 10	**4 J**	< 10	< 10	< 10	< 10
Acetone	2020-03	ug/L		**4.76 J**		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	2020-04	ug/L	< 10		< 10									
Acetone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Acetone	2021-03	ug/L				< 10								
Acetone	2021-08	ug/L	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Acetone	2022-03	ug/L				< 10								
Acetone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
7,12-Dimethylbenz(a)anthracene	2009-03	ug/L	< 10	< 10	< 10								
7,12-Dimethylbenz(a)anthracene	2009-07	ug/L	< 10	< 10	< 10.0								
7,12-Dimethylbenz(a)anthracene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
7,12-Dimethylbenz(a)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
7,12-Dimethylbenz(a)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
7,12-Dimethylbenz(a)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
7,12-Dimethylbenz(a)anthracene	2015-06	ug/L											
7,12-Dimethylbenz(a)anthracene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
7,12-Dimethylbenz(a)anthracene	2015-10	ug/L				< 10.6							
7,12-Dimethylbenz(a)anthracene	2016-03	ug/L			< 10	< 10							
7,12-Dimethylbenz(a)anthracene	2016-06	ug/L											
7,12-Dimethylbenz(a)anthracene	2016-08	ug/L			< 11.1	< 11.5							
7,12-Dimethylbenz(a)anthracene	2018-11	ug/L											
7,12-Dimethylbenz(a)anthracene	2019-03	ug/L											
7,12-Dimethylbenz(a)anthracene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Acenaphthene	2008-08	ug/L	< 10	< 10	< 10								
Acenaphthene	2009-03	ug/L	< 10	< 10	< 10								
Acenaphthene	2009-07	ug/L	< 10	< 10	< 10.0								
Acenaphthene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Acenaphthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Acenaphthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Acenaphthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Acenaphthene	2015-06	ug/L											
Acenaphthene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Acenaphthene	2015-10	ug/L				< 10.6							
Acenaphthene	2016-03	ug/L			< 10	< 10							
Acenaphthene	2016-06	ug/L											
Acenaphthene	2016-08	ug/L			< 11.1	< 11.5							
Acenaphthene	2018-11	ug/L											
Acenaphthene	2019-03	ug/L											
Acenaphthene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Acenaphthylene	2008-08	ug/L	< 10	< 10	< 10								
Acenaphthylene	2009-03	ug/L	< 10	< 10	< 10								
Acenaphthylene	2009-07	ug/L	< 10	< 10	< 10.0								
Acenaphthylene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Acenaphthylene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Acenaphthylene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Acenaphthylene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Acenaphthylene	2015-06	ug/L											
Acenaphthylene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Acenaphthylene	2015-10	ug/L				< 10.6							
Acenaphthylene	2016-03	ug/L			< 10	< 10							
Acenaphthylene	2016-06	ug/L											
Acenaphthylene	2016-08	ug/L			< 11.1	< 11.5							
Acenaphthylene	2018-11	ug/L											
Acenaphthylene	2019-03	ug/L											
Acenaphthylene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Acetone	2008-08	ug/L	< 10	< 10	< 10								
Acetone	2009-03	ug/L	< 10	< 10	< 10								
Acetone	2009-07	ug/L	< 10	< 10									
Acetone	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Acetone	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Acetone	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Acetone	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Acetone	2011-09	ug/L	< 10.0	< 10.0	< 10.0								
Acetone	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
Acetone	2012-09	ug/L	< 10.0	< 10.0	< 10.0								
Acetone	2013-03	ug/L	< 10	< 10	< 10.0								
Acetone	2013-09	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acetone	2013-11	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acetone	2014-03	ug/L	< 10.0	**2.08 J**	< 10.0		< 10.0	< 10.0	< 10.0 J	< 10.0	< 10.0		
Acetone	2014-06	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acetone	2014-09	ug/L	**2.08 J**	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
Acetone	2015-03	ug/L	< 10.0	< 10.0 J	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acetone	2015-06	ug/L											
Acetone	2015-09	ug/L	< 10	< 10	< 10								
Acetone	2015-10	ug/L				< 10	< 10	< 10		< 10	**3 J**		
Acetone	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Acetone	2016-06	ug/L											
Acetone	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		**3.35 J**	< 10		
Acetone	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Acetone	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Acetone	2017-11	ug/L										< 10	< 10
Acetone	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Acetone	2018-06	ug/L										< 10	< 10
Acetone	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10		< 10			
Acetone	2018-09	ug/L									< 10	< 10	< 10
Acetone	2018-11	ug/L										< 10	< 10
Acetone	2019-03	ug/L	**4.16 J**	**3.32 J**	< 10	< 10		< 10	< 10	< 10	**3.33 J**	< 10	
Acetone	2019-04	ug/L											< 10
Acetone	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Acetone	2020-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Acetone	2020-04	ug/L											
Acetone	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Acetone	2021-03	ug/L	< 10		< 10	< 10							< 10
Acetone	2021-08	ug/L	**3.43 J**	**4.01 J**	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Acetone	2022-03	ug/L	< 10		< 10	< 10							< 10
Acetone	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Acetone	2023-03	ug/L				< 10								
Acetone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Acetone	2024-03	ug/L				< 10								
Acetone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Acetonitrile	2008-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	
Acetonitrile	2009-03	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetonitrile	2010-09	mg/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Acetonitrile	2015-06	mg/L						< 10	< 10					
Acetonitrile	2015-09	mg/L	< 10	< 10				< 10	< 10	< 10	< 10			
Acetonitrile	2015-10	mg/L			< 10	< 10								
Acetonitrile	2016-03	mg/L												
Acetonitrile	2016-06	mg/L					< 10							
Acetonitrile	2016-08	mg/L					< 10							
Acetonitrile	2018-11	mg/L											< 10	
Acetonitrile	2019-03	mg/L											< 10	
Acetonitrile	2020-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Acetophenone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetophenone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetophenone	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Acetophenone	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Acetophenone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acetophenone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Acetophenone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Acetophenone	2015-06	ug/L						< 10.5	< 11.1					
Acetophenone	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Acetophenone	2015-10	ug/L			< 10.3	< 10.5								
Acetophenone	2016-03	ug/L												
Acetophenone	2016-06	ug/L					< 11.4							
Acetophenone	2016-08	ug/L					< 11							
Acetophenone	2018-11	ug/L											< 11.6	
Acetophenone	2019-03	ug/L											< 12.2	
Acetophenone	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Acrolein	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrolein	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrolein	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
Acrolein	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
Acrolein	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrolein	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Acrolein	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Acrolein	2012-09	ug/L		< 10.0										
Acrolein	2015-06	ug/L						< 10	< 10					
Acrolein	2015-09	ug/L	< 10	< 10				< 10	< 10	< 10	< 10			
Acrolein	2015-10	ug/L			< 10	< 10								
Acrolein	2016-03	ug/L												
Acrolein	2016-06	ug/L					< 10							
Acrolein	2016-08	ug/L					< 10							
Acrolein	2018-11	ug/L											< 10	
Acrolein	2019-03	ug/L											< 10	
Acrolein	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Acrylonitrile	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
Acrylonitrile	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
Acrylonitrile	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2013-03	ug/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
Acrylonitrile	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2013-11	ug/L												
Acrylonitrile	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Acrylonitrile	2014-06	ug/L												
Acrylonitrile	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2015-03	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0
Acrylonitrile	2015-06	ug/L						< 10	< 10					
Acrylonitrile	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
Acrylonitrile	2015-10	ug/L			< 10	< 10							< 10	< 10
Acrylonitrile	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2016-06	ug/L					< 10							
Acrylonitrile	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	2017-03	ug/L	< 10	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 5	< 5	< 5
Acrylonitrile	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2017-11	ug/L												
Acrylonitrile	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2018-06	ug/L												
Acrylonitrile	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Acrylonitrile	2018-09	ug/L							< 5	< 5				
Acrylonitrile	2018-11	ug/L											< 5	
Acrylonitrile	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2019-04	ug/L												
Acrylonitrile	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2020-03	ug/L		< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	2020-04	ug/L	< 5		< 5									
Acrylonitrile	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Acrylonitrile	2021-03	ug/L				< 5								
Acrylonitrile	2021-08	ug/L	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Acetone	2023-03	ug/L	< 10		< 10	< 10							< 10
Acetone	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Acetone	2024-03	ug/L	< 10		< 10	< 10							< 10
Acetone	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Acetonitrile	2008-08	mg/L	< 10	< 10									
Acetonitrile	2009-03	mg/L	< 10	< 10	< 10								
Acetonitrile	2010-09	mg/L	< 10.0	< 10.0	< 10.0								
Acetonitrile	2015-06	mg/L											
Acetonitrile	2015-09	mg/L	< 10	< 10	< 10								
Acetonitrile	2015-10	mg/L				< 10							
Acetonitrile	2016-03	mg/L			< 10	< 10							
Acetonitrile	2016-06	mg/L											
Acetonitrile	2016-08	mg/L			< 10	**3.64 J**							
Acetonitrile	2018-11	mg/L											
Acetonitrile	2019-03	mg/L											
Acetonitrile	2020-08	mg/L	< 10	< 10	< 10	< 10							
Acetophenone	2008-08	ug/L	< 10	< 10	< 10								
Acetophenone	2009-03	ug/L	< 10	< 10	< 10								
Acetophenone	2009-07	ug/L	< 10	< 10	< 10.0								
Acetophenone	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Acetophenone	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Acetophenone	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Acetophenone	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Acetophenone	2015-06	ug/L											
Acetophenone	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Acetophenone	2015-10	ug/L				< 10.6							
Acetophenone	2016-03	ug/L			< 10	< 10							
Acetophenone	2016-06	ug/L											
Acetophenone	2016-08	ug/L			< 11.1	< 11.5							
Acetophenone	2018-11	ug/L											
Acetophenone	2019-03	ug/L											
Acetophenone	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Acrolein	2008-08	ug/L	< 10	< 10	< 10								
Acrolein	2009-03	ug/L	< 10	< 10	< 10								
Acrolein	2009-07	ug/L	< 10	< 10									
Acrolein	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Acrolein	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Acrolein	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Acrolein	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Acrolein	2012-09	ug/L											
Acrolein	2015-06	ug/L											
Acrolein	2015-09	ug/L	< 10	< 10	< 10								
Acrolein	2015-10	ug/L				< 10							
Acrolein	2016-03	ug/L			< 10	< 10							
Acrolein	2016-06	ug/L											
Acrolein	2016-08	ug/L			< 10	< 10							
Acrolein	2018-11	ug/L											
Acrolein	2019-03	ug/L											
Acrolein	2020-08	ug/L	< 10	< 10	< 10	< 10							
Acrylonitrile	2008-08	ug/L	< 10	< 10	< 10								
Acrylonitrile	2009-03	ug/L	< 10	< 10	< 10								
Acrylonitrile	2009-07	ug/L	< 10	< 10									
Acrylonitrile	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2011-09	ug/L	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2012-09	ug/L	< 10.0	< 10.0	< 10.0								
Acrylonitrile	2013-03	ug/L	< 10	< 10	< 10.0								
Acrylonitrile	2013-09	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2013-11	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2014-03	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2014-06	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2014-09	ug/L	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
Acrylonitrile	2015-03	ug/L	< 10.0	< 10.0	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Acrylonitrile	2015-06	ug/L											
Acrylonitrile	2015-09	ug/L	< 10	< 10	< 10								
Acrylonitrile	2015-10	ug/L				< 10	< 10	< 10		< 10	< 10		
Acrylonitrile	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Acrylonitrile	2016-06	ug/L											
Acrylonitrile	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Acrylonitrile	2017-03	ug/L	< 10	< 10	< 10	< 5	< 5	< 5		< 10	< 5		
Acrylonitrile	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Acrylonitrile	2017-11	ug/L										< 5	< 5
Acrylonitrile	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Acrylonitrile	2018-06	ug/L										< 5	< 5
Acrylonitrile	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5		< 5			
Acrylonitrile	2018-09	ug/L									< 5	< 5	< 5
Acrylonitrile	2018-11	ug/L										< 5	< 5
Acrylonitrile	2019-03	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	
Acrylonitrile	2019-04	ug/L											< 5
Acrylonitrile	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Acrylonitrile	2020-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Acrylonitrile	2020-04	ug/L											
Acrylonitrile	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Acrylonitrile	2021-03	ug/L	< 5		< 5	< 5							< 5
Acrylonitrile	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Acrylonitrile	2022-03	ug/L				< 5								
Acrylonitrile	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Acrylonitrile	2023-03	ug/L				< 5								
Acrylonitrile	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Acrylonitrile	2024-03	ug/L				< 5								
Acrylonitrile	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Aldrin	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Aldrin	2008-09	ug/L										< 0.016		< 0.016
Aldrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Aldrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Aldrin	2015-06	ug/L						< 0.0348	< 0.032					
Aldrin	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Aldrin	2015-10	ug/L			< 0.0372	< 0.0364								
Aldrin	2016-03	ug/L												
Aldrin	2016-06	ug/L					< 0.0364							
Aldrin	2016-08	ug/L					< 0.0337							
Aldrin	2018-11	ug/L											< 0.036	
Aldrin	2019-03	ug/L											< 0.0372	
Aldrin	2020-08	ug/L	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
Allyl Chloride	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Allyl Chloride	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Allyl Chloride	2009-07	ug/L	< 2	< 2	< 2	< 2		< 2	< 2.00	< 2.00	< 2			
Allyl Chloride	2009-09	ug/L	< 2.00	< 2	< 2.00	< 10.0		< 2	< 2	< 2	< 2			
Allyl Chloride	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Allyl Chloride	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00				< 2.00				
Allyl Chloride	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00				< 4.00				
Allyl Chloride	2012-09	ug/L		< 4.00										
Allyl Chloride	2015-06	ug/L						< 2	< 2					
Allyl Chloride	2015-09	ug/L	< 2	< 2				< 2	< 2	< 2	< 2			
Allyl Chloride	2015-10	ug/L			< 2	< 2								
Allyl Chloride	2016-03	ug/L												
Allyl Chloride	2016-06	ug/L					< 2							
Allyl Chloride	2016-08	ug/L					< 2							
Allyl Chloride	2018-11	ug/L											< 2	
Allyl Chloride	2019-03	ug/L											< 2	
Allyl Chloride	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			
alpha-BHC	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
alpha-BHC	2008-09	ug/L										< 0.016		< 0.016
alpha-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
alpha-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
alpha-BHC	2012-03	ug/L												
alpha-BHC	2013-03	ug/L												
alpha-BHC	2014-03	ug/L												
alpha-BHC	2014-09	ug/L												
alpha-BHC	2015-03	ug/L												
alpha-BHC	2015-06	ug/L						< 0.0348	< 0.032					
alpha-BHC	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
alpha-BHC	2015-10	ug/L			< 0.0372	**0.00307 J**								
alpha-BHC	2016-03	ug/L												
alpha-BHC	2016-06	ug/L					< 0.0364							
alpha-BHC	2016-08	ug/L					< 0.0337							
alpha-BHC	2017-03	ug/L												
alpha-BHC	2017-08	ug/L												
alpha-BHC	2018-11	ug/L											< 0.036	
alpha-BHC	2019-03	ug/L											< 0.0372	
alpha-BHC	2020-08	ug/L	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
Anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Anthracene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Anthracene	2015-06	ug/L						< 10.5	< 11.1					
Anthracene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Anthracene	2015-10	ug/L			< 10.3	< 10.5								
Anthracene	2016-03	ug/L												
Anthracene	2016-06	ug/L					< 11.4							
Anthracene	2016-08	ug/L					< 11							
Anthracene	2018-11	ug/L											< 11.6	
Anthracene	2019-03	ug/L											< 12.2	
Anthracene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Antimony	2008-08	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Antimony	2009-03	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Antimony	2010-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2010-09	mg/L	**0.00663**	**0.00757**	**0.00669**	**0.0115**	**0.00687**	**0.0153**	**0.0114**	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2011-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2011-09	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2012-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2012-09	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2013-03	mg/L	< 0.00600	< 0.00600	**0.00106 J**	< 0.006	< 0.006	< 0.006	< 0.006	**0.00675**	**0.00677**	< 0.006	< 0.006 J	**0.00381 J**
Antimony	2013-09	mg/L	**0.00695**	**0.00348 J**	**0.00478 J**	**0.0126**	**0.00744**	**0.0105**	**0.00867**	< 0.00600	< 0.00600	< 0.00600	< 0.00600	**0.00245 J**
Antimony	2013-11	mg/L												
Antimony	2014-03	mg/L	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600
Antimony	2014-06	mg/L												
Antimony	2014-09	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2015-03	mg/L	< 0.00100	**0.000459 J**	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.00100	< 0.00100	< 0.001	**0.000539 J**	< 0.00100	< 0.00100
Antimony	2015-06	mg/L						< 0.001	< 0.001					

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Acrylonitrile	2022-03	ug/L	< 5		< 5	< 5							< 5
Acrylonitrile	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Acrylonitrile	2023-03	ug/L	< 5		< 5	< 5							< 5
Acrylonitrile	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Acrylonitrile	2024-03	ug/L	< 5		< 5	< 5							< 5
Acrylonitrile	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Aldrin	2008-08	ug/L	< 0.047	< 0.053									
Aldrin	2008-09	ug/L			< 0.016								
Aldrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Aldrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Aldrin	2015-06	ug/L											
Aldrin	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Aldrin	2015-10	ug/L				< 0.0364							
Aldrin	2016-03	ug/L			< 0.034	< 0.0356							
Aldrin	2016-06	ug/L											
Aldrin	2016-08	ug/L			< 0.0356	< 0.0327							
Aldrin	2018-11	ug/L											
Aldrin	2019-03	ug/L											
Aldrin	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Allyl Chloride	2008-08	ug/L	< 2	< 2	< 2								
Allyl Chloride	2009-03	ug/L	< 2	< 2	< 2								
Allyl Chloride	2009-07	ug/L	< 2	< 2									
Allyl Chloride	2009-09	ug/L	< 2.00	< 2.00	< 2.00								
Allyl Chloride	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
Allyl Chloride	2010-09	ug/L	< 2.00	< 2.00	< 2.00								
Allyl Chloride	2011-03	ug/L	< 4.00	< 4.00	< 4.00								
Allyl Chloride	2012-09	ug/L											
Allyl Chloride	2015-06	ug/L											
Allyl Chloride	2015-09	ug/L	< 2	< 2	< 2								
Allyl Chloride	2015-10	ug/L				< 2							
Allyl Chloride	2016-03	ug/L			< 2	< 2							
Allyl Chloride	2016-06	ug/L											
Allyl Chloride	2016-08	ug/L			< 2	< 2							
Allyl Chloride	2018-11	ug/L											
Allyl Chloride	2019-03	ug/L											
Allyl Chloride	2020-08	ug/L	< 2	< 2	< 2	< 2							
alpha-BHC	2008-08	ug/L	< 0.047	< 0.053									
alpha-BHC	2008-09	ug/L			< 0.016								
alpha-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
alpha-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
alpha-BHC	2012-03	ug/L			< 0.0320								
alpha-BHC	2013-03	ug/L			< 0.0344								
alpha-BHC	2014-03	ug/L			< 0.0330								
alpha-BHC	2014-09	ug/L			< 0.032								
alpha-BHC	2015-03	ug/L			< 0.0337								
alpha-BHC	2015-06	ug/L											
alpha-BHC	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
alpha-BHC	2015-10	ug/L				< 0.0364							
alpha-BHC	2016-03	ug/L			< 0.034	< 0.0356							
alpha-BHC	2016-06	ug/L											
alpha-BHC	2016-08	ug/L			< 0.0356	< 0.0327							
alpha-BHC	2017-03	ug/L			< 0.0337	< 0.0356							
alpha-BHC	2017-08	ug/L			< 0.0337	< 0.0344							
alpha-BHC	2018-11	ug/L											
alpha-BHC	2019-03	ug/L											
alpha-BHC	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Anthracene	2008-08	ug/L	< 10	< 10	< 10								
Anthracene	2009-03	ug/L	< 10	< 10	< 10								
Anthracene	2009-07	ug/L	< 10	< 10	< 10.0								
Anthracene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Anthracene	2015-06	ug/L											
Anthracene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Anthracene	2015-10	ug/L				< 10.6							
Anthracene	2016-03	ug/L			< 10	< 10							
Anthracene	2016-06	ug/L											
Anthracene	2016-08	ug/L			< 11.1	< 11.5							
Anthracene	2018-11	ug/L											
Anthracene	2019-03	ug/L											
Anthracene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Antimony	2008-08	mg/L	< 0.003	< 0.003	< 0.003								
Antimony	2009-03	mg/L	< 0.004	< 0.004	< 0.004								
Antimony	2010-03	mg/L	< 0.00600	< 0.00600	< 0.00600								
Antimony	2010-09	mg/L	< 0.00600	**0.00671**	**0.0101**								
Antimony	2011-03	mg/L	< 0.00600	< 0.00600	< 0.00600								
Antimony	2011-09	mg/L	< 0.00600	< 0.00600	< 0.00600								
Antimony	2012-03	mg/L	< 0.00600	< 0.00600	< 0.00600								
Antimony	2012-09	mg/L	< 0.00600	< 0.00600	< 0.00600								
Antimony	2013-03	mg/L	< 0.006	< 0.006	< 0.00600								
Antimony	2013-09	mg/L	**0.00128 J**	**0.00664**	< 0.00600	~~< 0.00600~~	< 0.00600	**0.00421 J**	< 0.00600	< 0.00600	**0.00462 J**		
Antimony	2013-11	mg/L				~~**0.00388 J**~~	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600		
Antimony	2014-03	mg/L	< 0.00600	< 0.00600	< 0.00600	~~< 0.00600~~	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600		
Antimony	2014-06	mg/L				~~< 0.00600~~	< 0.00600	< 0.00600	< 0.00600	**0.00350 J**	< 0.00600		
Antimony	2014-09	mg/L	< 0.001	< 0.001	< 0.001	~~< 0.001~~	**0.000769 J**	**0.000167 J**	< 0.001	< 0.001	< 0.001		
Antimony	2015-03	mg/L	**0.000241 J**	< 0.00100	< 0.001	~~< 0.00100~~	**0.000383 J**	< 0.00100	**0.000229 J**	< 0.00100	< 0.00100		
Antimony	2015-06	mg/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Antimony	2015-09	mg/L	< 0.001	**0.000282 J**			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.00103**		
Antimony	2015-10	mg/L			< 0.001	< 0.001							**0.000256 J**	**0.000259 J**
Antimony	2016-03	mg/L	< 0.001	**0.000467 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2016-06	mg/L					< 0.001							
Antimony	2016-08	mg/L	< 0.001	**0.000279 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2017-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000346 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2017-08	mg/L	< 0.001	**0.00023 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2017-11	mg/L												
Antimony	2018-03	mg/L	< 0.001	**0.000405 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000436 J**	< 0.001	< 0.001
Antimony	2018-06	mg/L												
Antimony	2018-08	mg/L	< 0.001	**0.00044 J**	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2018-09	mg/L							< 0.001	< 0.001				
Antimony	2018-11	mg/L											< 0.001	
Antimony	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2019-04	mg/L												
Antimony	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2020-03	mg/L		< 0.001		< 0.001	< 0.004	< 0.001	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2020-04	mg/L	< 0.001		< 0.001									
Antimony	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Antimony	2021-03	mg/L				< 0.002								
Antimony	2021-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002
Antimony	2022-03	mg/L				< 0.002								
Antimony	2022-08	mg/L	< 0.002	**0.00077 J**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002
Antimony	2023-03	mg/L				< 0.002								
Antimony	2023-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002
Antimony	2024-03	mg/L				< 0.002								
Antimony	2024-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002
Arsenic	2008-08	mg/L	< 0.001	**0.0369**	< 0.001	**0.0308**	< 0.001	< 0.001	**0.0196**	**0.0282**	**0.0026**	< 0.001	< 0.001	< 0.001
Arsenic	2009-03	mg/L	**0.0012**	**0.0239**	< 0.001	**0.0224**	< 0.001	**0.0011**	**0.0126**	**0.0258**	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic	2009-07	mg/L	**0.001**	**0.029**	< 0.001	**0.019**		**0.0023**	**0.0126**	**0.029**	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic	2009-09	mg/L	< 0.00100	**0.0392**		**0.0190**		**0.00155**	**0.0089**	**0.0334**	< 0.001	< 0.001		
Arsenic	2010-03	mg/L	< 0.00100	**0.0190**	< 0.00100	**0.0155**	**0.00795**	**0.0102**	**0.00856**	**0.0250**	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	2010-09	mg/L	< 0.00200	**0.0428**	< 0.00300	**0.0216**	< 0.00100	< 0.00100	< 0.00200	**0.0442**	**0.0816**	< 0.00100	< 0.00100	< 0.00200
Arsenic	2011-03	mg/L	< 0.00800	**0.0466**	< 0.0100	**0.0237**	< 0.0000400	< 0.0000400	< 0.00200	**0.0433**	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Arsenic	2011-09	mg/L	< 0.00100	**0.0382**	< 0.00400	**0.0296**	< 0.00400	< 0.00400	< 0.00200	**0.0316**	< 0.00200	< 0.00100	< 0.00100	< 0.00200
Arsenic	2012-03	mg/L	**0.00156**	**0.0372**	< 0.00100	**0.0327**	**0.00180**	**0.00180**	**0.00344**	**0.0415**	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	2012-09	mg/L	< 0.00100	**0.0326**	< 0.00100	**0.0201**	< 0.00100	< 0.00100	**0.00227**	**0.0339**	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	2013-03	mg/L	< 0.00100	**0.0712**	< 0.001	**0.139**	< 0.001	< 0.001	**0.000957 J**	**0.141**	< 0.00100	< 0.001	< 0.001	< 0.001
Arsenic	2013-09	mg/L	< 0.00100	**0.0340**	< 0.00100	**0.0199**	**0.000650 J**	< 0.00200	< 0.00200	**0.0395**	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	2013-11	mg/L												
Arsenic	2014-03	mg/L	< 0.00100	**0.0415**	< 0.00100	**0.0153**	< 0.00200	< 0.00100	< 0.00100	**0.0421**	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	2014-06	mg/L												
Arsenic	2014-09	mg/L	< 0.002	**0.0329**	< 0.002	**0.0234**	< 0.002	< 0.002	**0.00128 J**	**0.0401**	**0.00103 J**	< 0.002	< 0.002	< 0.002
Arsenic	2015-03	mg/L	< 0.00200	**0.0394**	< 0.00200	**0.0164**	< 0.002	< 0.002	**0.00237**	**0.0558**	**0.00279**	< 0.002	< 0.00200	< 0.00200
Arsenic	2015-06	mg/L						**0.00191 J**	**0.0019 J**					
Arsenic	2015-09	mg/L	< 0.002	**0.0417**			< 0.002	**0.00107 J**	**0.00159 J**	**0.0473**	**0.00136 J**	< 0.002		
Arsenic	2015-10	mg/L			< 0.002	**0.0286**							< 0.002	< 0.002
Arsenic	2016-03	mg/L	**0.000811 J**	**0.039**	< 0.002	**0.0248**	< 0.002	**0.0019 J**	**0.00168 J**	**0.0574**	**0.00273**	< 0.002	< 0.002	< 0.002
Arsenic	2016-06	mg/L					**0.000673 J**							
Arsenic	2016-08	mg/L	< 0.002	**0.04**	< 0.002	**0.0346**	< 0.002	< 0.002	**0.00152 J**	**0.0471**	**0.00139 J**	< 0.002	< 0.002	< 0.002
Arsenic	2017-03	mg/L	< 0.002	**0.0307**	< 0.002	**0.0244**	< 0.002	< 0.002	**0.00154 J**	**0.0501**	**0.00124 J**	< 0.002	< 0.002	**0.000582 J**
Arsenic	2017-08	mg/L	< 0.002	**0.0319**	< 0.002	**0.0264**	< 0.002	< 0.002	**0.000795 J**	**0.0414**	**0.00178 J**	< 0.002	< 0.002	< 0.002
Arsenic	2017-11	mg/L												
Arsenic	2018-03	mg/L	**0.000784 J**	**0.0412**	< 0.002	**0.0291**	**0.000598 J**	**0.000775 J**	**0.00157 J**	**0.0669**	**0.00117 J**	**0.000608 J**	< 0.002	**0.000636 J**
Arsenic	2018-06	mg/L												
Arsenic	2018-08	mg/L	< 0.002	**0.0397**	< 0.002	**0.0105**	**0.000649 J**	**0.000597 J**			**0.00186 J**	< 0.002	< 0.002	**0.000644 J**
Arsenic	2018-09	mg/L							**0.00155 J**	**0.0464**				
Arsenic	2018-11	mg/L											< 0.002	
Arsenic	2019-03	mg/L	< 0.002	**0.0543**	< 0.002	**0.115**	< 0.002	< 0.002	**0.00123 J**	**0.0655**	**0.00133 J**	< 0.002	< 0.002	< 0.002
Arsenic	2019-04	mg/L												
Arsenic	2019-08	mg/L	< 0.002	**0.0413**	< 0.002	**0.0633**	**0.000752 J**	< 0.002	< 0.002	**0.0436**	**0.00307**	< 0.002	< 0.002	< 0.002
Arsenic	2020-03	mg/L		**0.0367**		**0.0317**	< 0.008	**0.00178 J**	< 0.008	**0.0585**	**0.00198 J**	< 0.002	< 0.002	< 0.002
Arsenic	2020-04	mg/L	< 0.002		< 0.002									
Arsenic	2020-08	mg/L	< 0.002	**0.0332**	< 0.002	**0.0197**	< 0.002	**0.00108 J**	**0.00095 J**	**0.0525**	**0.00162 J**			< 0.002
Arsenic	2021-03	mg/L				**0.0281**								
Arsenic	2021-08	mg/L	< 0.002	**0.0413**	< 0.002	**0.0273**	< 0.002	< 0.002	< 0.002	**0.0517**	**0.00133 J**			< 0.002
Arsenic	2022-03	mg/L				**0.0129**								
Arsenic	2022-08	mg/L	< 0.002	**0.037**	< 0.002	**0.0108**	< 0.002	**0.000916 J**	< 0.002	**0.0523**	**0.00114 J**			< 0.002
Arsenic	2023-03	mg/L				**0.00844**								
Arsenic	2023-08	mg/L	**0.000696 J**	**0.0335**	**0.00071 J**	**0.0142**	**0.000546 J**	**0.00207**	**0.000621 J**	**0.0566**	**0.00141 J**			< 0.002
Arsenic	2024-03	mg/L				**0.0253**								
Arsenic	2024-08	mg/L	**0.000805 J**	**0.0487**	< 0.002	**0.0151**	**0.00061 J**	**0.00347**	**0.000834 J**	**0.0551**	**0.00161 J**			< 0.002
Barium	2008-08	mg/L	**0.13**	**0.47**	< 0.1	**0.11**	< 0.1	< 0.1	**0.16**	**0.62**	**0.22**	< 0.1	< 0.1	**0.11**
Barium	2009-03	mg/L	**0.14**	**0.41**	< 0.05	**0.10**	< 0.05	< 0.05	< 0.05	**0.64**	**0.17**	< 0.05	< 0.05	< 0.05
Barium	2009-07	mg/L	< 0.1	**0.42**	< 0.1	< 0.1		< 0.1	< 0.1	**0.66**	**0.19**	< 0.1	< 0.1	< 0.1
Barium	2009-09	mg/L	**0.0687**	**0.474**		**0.0880**		**0.0188**	**0.036**	**0.612**	**0.16**	**0.0412**		
Barium	2010-03	mg/L	**0.0670**	**0.464**	**0.0499**	**0.127**	**0.0268**	**0.0204**	**0.0368**	**0.522**	**0.185**	**0.0473**	**0.0438**	**0.0789**
Barium	2010-09	mg/L	**0.0625**	**0.390**	**0.0432**	**0.107**	**0.0257**	**0.0191**	**0.0330**	**0.649**	**0.192**	**0.0459**	**0.0429**	**0.0783**
Barium	2011-03	mg/L	**0.0719**	**0.496**	**0.0392**	**0.0934**	**0.0243**	**0.0199**	**0.0302**	**0.671**	**0.207**	**0.0484**	**0.0470**	**0.0754**
Barium	2011-09	mg/L	**0.0778**	**0.396**	**0.0430**	**0.121**	**0.0221**	**0.0180**	**0.0297**	**0.720**	**0.199**	**0.0478**	**0.0467**	**0.0784**
Barium	2012-03	mg/L	**0.102**	**0.436**	**0.0471**	**0.125**	**0.0287**	**0.0211**	**0.0355**	**0.648**	**0.164**	**0.0519**	**0.0466**	**0.0848**
Barium	2012-09	mg/L	**0.115**	**0.529**	**0.0523**	**0.140**	**0.0283**	**0.0219**	**0.0365**	**0.814**	**0.139**	**0.0539**	**0.0519**	**0.0905**
Barium	2013-03	mg/L	**0.100**	**0.756**	**0.0516**	**0.221**	**0.0241**	**0.0158**	**0.0331**	**0.602**	**0.0902**	**0.0493**	**0.052**	**0.101**
Barium	2013-09	mg/L	**0.105**	**0.390**	**0.0430**	**0.244**	**0.00851 J**	< 0.0100	**0.0161**	**0.668**	**0.164**	**0.0491**	**0.0471**	**0.0992**
Barium	2013-11	mg/L												
Barium	2014-03	mg/L	**0.102**	**0.587**	**0.0426**	**0.171**	**0.0210**	**0.0163**	**0.0296**	**0.700**	**0.129**	**0.0483**	**0.0463**	**0.0806**
Barium	2014-06	mg/L												
Barium	2014-09	mg/L	**0.0978**	**0.419**	**0.0502**	**0.475**	**0.0274**	**0.0223**	**0.0307**	**0.651**	**0.177**	**0.0491**	**0.0493**	**0.0957**

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Antimony	2015-09	mg/L	< 0.001	< 0.001	< 0.001								
Antimony	2015-10	mg/L				< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		
Antimony	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000328 J**		< 0.001	< 0.001		
Antimony	2016-06	mg/L											
Antimony	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000239 J**		< 0.001	< 0.001		
Antimony	2017-03	mg/L	< 0.001	< 0.001	< 0.001	**0.000185 J**	**0.000243 J**	**0.000231 J**		< 0.001	**0.000307 J**		
Antimony	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000416 J**		< 0.001	< 0.001		
Antimony	2017-11	mg/L										< 0.001	< 0.001
Antimony	2018-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	**0.000589 J**	**0.000373 J**		< 0.001	< 0.001	**0.00022 J**	**0.000205 J**
Antimony	2018-06	mg/L										< 0.001	< 0.001
Antimony	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001		< 0.001			
Antimony	2018-09	mg/L									< 0.001	< 0.001	< 0.001
Antimony	2018-11	mg/L										< 0.001	< 0.001
Antimony	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Antimony	2019-04	mg/L											< 0.001
Antimony	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2020-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2020-04	mg/L											
Antimony	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Antimony	2021-03	mg/L	< 0.002		< 0.002	< 0.002							< 0.002
Antimony	2021-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			**0.00314**	< 0.002	< 0.002	< 0.002
Antimony	2022-03	mg/L	< 0.002		< 0.002	< 0.002							< 0.002
Antimony	2022-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002
Antimony	2023-03	mg/L	< 0.002		< 0.002	< 0.002							< 0.002
Antimony	2023-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002
Antimony	2024-03	mg/L	< 0.002		< 0.002	< 0.002							< 0.002
Antimony	2024-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002
Arsenic	2008-08	mg/L	**0.0249**	**0.0372**	**0.0016**								
Arsenic	2009-03	mg/L	**0.0233**	**0.0441**	**0.0016**								
Arsenic	2009-07	mg/L	**0.0248**	**0.0413**	**0.0017**								
Arsenic	2009-09	mg/L	**0.0230**	**0.0358**	**0.00225**								
Arsenic	2010-03	mg/L	**0.0262**	**0.0443**	**0.00132**								
Arsenic	2010-09	mg/L	**0.0272**	**0.0382**	< 0.00100								
Arsenic	2011-03	mg/L	**0.0341**	**0.0696**	< 0.00100								
Arsenic	2011-09	mg/L	**0.0283**	**0.0592**	< 0.00100								
Arsenic	2012-03	mg/L	**0.0292**	**0.0633**	**0.00130**								
Arsenic	2012-09	mg/L	**0.0261**	**0.0710**	< 0.00100								
Arsenic	2013-03	mg/L	**0.027**	**0.134**	**0.000786 J**								
Arsenic	2013-09	mg/L	**0.0324**	**0.0701**	**0.00106**	~~0.00131~~	**0.000733 J**	**0.00106**	**0.0162**	**0.000959 J**	< 0.00100		
Arsenic	2013-11	mg/L				~~< 0.00100~~	< 0.00100	**0.00110**	**0.00180**	< 0.00100	< 0.00100		
Arsenic	2014-03	mg/L	**0.0297**	**0.0750**	**0.000607 J**	~~**0.000322 J**~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Arsenic	2014-06	mg/L				~~< 0.00100~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Arsenic	2014-09	mg/L	**0.0271**	**0.0585**	**0.00172 J**	~~**0.00113 J**~~	< 0.002	**0.00254**	< 0.002	< 0.002	< 0.002		
Arsenic	2015-03	mg/L	**0.0442**	**0.0683**	**0.00121 J**	~~< 0.00200~~	< 0.00200	**0.00268**	< 0.00200	< 0.00200	**0.000945 J**		
Arsenic	2015-06	mg/L											
Arsenic	2015-09	mg/L	**0.0422**	**0.0659**	< 0.002								
Arsenic	2015-10	mg/L				< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002		
Arsenic	2016-03	mg/L	**0.0425**	**0.0586**	**0.00121 J**	< 0.002	< 0.002	**0.00114 J**	**0.000726 J**	**0.000796 J**	< 0.002		
Arsenic	2016-06	mg/L											
Arsenic	2016-08	mg/L	**0.0379**	**0.0531**	**0.000854 J**	< 0.002	< 0.002	**0.000935 J**	**0.00115 J**	< 0.002	< 0.002		
Arsenic	2017-03	mg/L	**0.038**	**0.0519**	**0.00112 J**	< 0.002	< 0.002	**0.000715 J**	**0.000733 J**	**0.000548 J**	< 0.002		
Arsenic	2017-08	mg/L	**0.0428**	**0.0656**	**0.000843 J**	< 0.002	< 0.002	**0.00115 J**	**0.000789 J**	< 0.002	< 0.002		
Arsenic	2017-11	mg/L										**0.00306**	**0.00987**
Arsenic	2018-03	mg/L	**0.0469**	**0.0694**	**0.00124 J**	**0.000546 J**	**0.00073 J**	**0.00123 J**	**0.00157 J**	**0.000654 J**	< 0.002	**0.0014 J**	**0.0138**
Arsenic	2018-06	mg/L										**0.00133 J**	**0.0152**
Arsenic	2018-08	mg/L	**0.0413**	**0.0703**	**0.00128 J**	< 0.002		**0.00121 J**	**0.000872 J**	< 0.002			
Arsenic	2018-09	mg/L									< 0.002	**0.00101 J**	**0.0166**
Arsenic	2018-11	mg/L										**0.000953 J**	**0.0201**
Arsenic	2019-03	mg/L	**0.0461**	**0.0534**	**0.0012 J**	< 0.002		**0.0011 J**	< 0.002	**0.000833 J**	< 0.002	**0.000852 J**	
Arsenic	2019-04	mg/L											**0.0253**
Arsenic	2019-08	mg/L	**0.0454**	**0.0619**	**0.00133 J**	**0.000789 J**	< 0.002	**0.000816 J**	**0.00212**	**0.00621**	< 0.002	< 0.002	**0.0197**
Arsenic	2020-03	mg/L	**0.0474**	**0.0714**	**0.00101 J**	< 0.002	< 0.002	< 0.002	< 0.002	**0.00111 J**	< 0.002	< 0.002	**0.0276**
Arsenic	2020-04	mg/L											
Arsenic	2020-08	mg/L	**0.0477**	**0.0719**	**0.00102 J**	< 0.002	< 0.002		< 0.002	**0.00758**	< 0.002	< 0.002	**0.0243**
Arsenic	2021-03	mg/L	**0.0514**		**0.001 J**	< 0.002							**0.0224**
Arsenic	2021-08	mg/L	**0.0351**	**0.0663**	**0.00094 J**	< 0.002	< 0.002		< 0.002	**0.00322**	< 0.002	< 0.002	**0.0189**
Arsenic	2022-03	mg/L	**0.0326**		**0.000956 J**	< 0.002							**0.0168**
Arsenic	2022-08	mg/L	**0.037**	**0.0745**	**0.000912 J**	< 0.002	< 0.002		< 0.002	< 0.002	< 0.002	< 0.002	**0.0219 J+**
Arsenic	2023-03	mg/L	**0.0399**		**0.00122 J**	< 0.002							**0.0202**
Arsenic	2023-08	mg/L	**0.0496**	**0.072**	**0.00112 J**	**0.000547 J**	< 0.002		**0.00061 J**	**0.000868 J**	< 0.002	< 0.002	**0.0192**
Arsenic	2024-03	mg/L	**0.0409**		**0.00107 J**	< 0.002							**0.0196**
Arsenic	2024-08	mg/L	**0.0503**	**0.0692**	**0.00102 J**	**0.000612 J**	< 0.002		< 0.002	**0.00602**	< 0.002	< 0.002	**0.0214**
Barium	2008-08	mg/L	**0.43**	**0.7**	~~< 0.1~~								
Barium	2009-03	mg/L	**0.35**	**0.64**	~~< 0.05~~								
Barium	2009-07	mg/L	**0.39**	**0.65**	~~< 0.1~~								
Barium	2009-09	mg/L	**0.307**	**0.572**	**0.0436**								
Barium	2010-03	mg/L	**0.354**	**0.649**	**0.0447**								
Barium	2010-09	mg/L	**0.344**	**0.601**	**0.0418**								
Barium	2011-03	mg/L	**0.399**	**0.488**	**0.0444**								
Barium	2011-09	mg/L	**0.417**	**0.625**	**0.0441**								
Barium	2012-03	mg/L	**0.422**	**0.644**	**0.0454**								
Barium	2012-09	mg/L	**0.442**	**0.676**	**0.0492**								
Barium	2013-03	mg/L	**0.387**	**0.599**	**0.0402**								
Barium	2013-09	mg/L	**0.406**	**0.559**	**0.0416**	~~**0.136**~~	**0.0982**	**0.146**	**0.301**	**0.107**	**0.360**		
Barium	2013-11	mg/L				~~**0.165**~~	**0.0966**	**0.165**	**0.313**	**0.0943**	**0.327**		
Barium	2014-03	mg/L	**0.397**	**0.609**	**0.0405**	~~**0.113**~~	**0.105**	**0.159**	**0.311**	**0.0894**	**0.291**		
Barium	2014-06	mg/L				~~**0.117**~~	**0.114**	**0.165**	**0.310**	**0.0936**	**0.299**		
Barium	2014-09	mg/L	**0.428**	**0.914**	**0.0451**	~~**0.117**~~	**0.117**	**0.167**	**0.293**	**0.102**	**0.318**		

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Barium	2015-03	mg/L	0.11	0.761	0.0498	0.581	0.0357	0.0281	0.0324	0.635	0.299	0.061	0.0674	0.0857
Barium	2015-06	mg/L						0.0256	0.0345					
Barium	2015-09	mg/L	0.125	0.526			0.0353	0.023	0.0307	0.568	0.279	0.0579		
Barium	2015-10	mg/L			0.0732	0.624							0.0563	0.0989
Barium	2016-03	mg/L	0.126	0.713	0.064	0.715	0.0312	0.027	0.0293	0.58	0.215	0.0483	0.0722	0.0994
Barium	2016-06	mg/L					0.0353							
Barium	2016-08	mg/L	0.128	0.501	0.0613	0.791	0.0278	0.0204	0.0324	0.59	0.207	0.0523	0.0664	0.0873
Barium	2017-03	mg/L	0.114	0.59	0.0709	1.11	0.0297	0.0241	0.0295	0.565	0.248	0.0641	0.0767	0.0924
Barium	2017-08	mg/L	0.121	0.486	0.0543	1	0.0312	0.0228	0.0286	0.645	0.228	0.0519	0.0678	0.0735
Barium	2017-11	mg/L												
Barium	2018-03	mg/L	0.129	0.935	0.0513	0.751	0.0359	0.0262	0.0297	0.701	0.183	0.0567	0.0701	0.0776
Barium	2018-06	mg/L												
Barium	2018-08	mg/L	0.117	0.539	0.0664	0.666	0.0371	0.0247			0.236	0.0598	0.0821	0.0901
Barium	2018-09	mg/L							0.0378	0.636				
Barium	2018-11	mg/L											0.0619	
Barium	2019-03	mg/L	0.131	0.534	0.0568	1.08	0.0316	0.0236	0.0341	0.515	0.199	0.0584	0.0592	0.104
Barium	2019-04	mg/L												
Barium	2019-08	mg/L	0.134	0.449	0.0615	1.3	0.0345	0.0233	0.0271	0.718	0.213	0.054	0.0595	0.0755
Barium	2020-03	mg/L		0.707		1.13	0.0338	0.025	0.0315	0.655	0.236	0.0518	0.0594	0.0845
Barium	2020-04	mg/L	0.116		0.0551									
Barium	2020-08	mg/L	0.123	0.427	0.0544	1.05	0.036	0.0233	0.0294	0.735	0.245			0.0724
Barium	2021-03	mg/L				0.962								
Barium	2021-08	mg/L	0.145	0.7	0.0539	1.06	0.0388	0.0225	0.0338	0.778	0.221			0.0838
Barium	2022-03	mg/L				0.603								
Barium	2022-08	mg/L	0.175	0.414	0.0563	0.403	0.0467	0.0236	0.0348	0.647	0.25			0.105
Barium	2023-03	mg/L				0.283								
Barium	2023-08	mg/L	0.178	0.518	0.0445	0.373	0.04	0.0248	0.0351	0.653	0.221			0.0999
Barium	2024-03	mg/L				0.687								
Barium	2024-08	mg/L	0.174	0.454	0.0571	0.736	0.0414	0.0197	0.0327	0.558	0.195			0.0961
Benzene	2008-08	ug/L	< 0.5	0.88	< 0.5	3.39	< 0.5	< 0.5	< 0.5	1.1	0.57	< 0.5	< 0.5	< 0.5
Benzene	2009-03	ug/L	< 0.5	1.14	< 0.5	3.08	< 0.5	< 0.5	< 0.5	0.75	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2009-07	ug/L	< 0.5	1.33	< 0.5	1.89		< 0.5	< 0.500	1.18	< 0.5			
Benzene	2009-09	ug/L	< 0.500	1.23	< 0.500	2.60		< 0.5	< 0.5	1.14	< 0.5			
Benzene	2010-03	ug/L	< 0.500	1.16	< 0.500	3.32	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
Benzene	2010-09	ug/L	< 0.500	0.880	< 0.500	2.89	< 0.500	< 0.500	< 0.500	0.880	< 0.500	< 0.500	< 0.500	< 0.500
Benzene	2011-03	ug/L	< 0.500	1.41	< 0.500	2.66	< 0.500	< 0.500	< 0.500	0.990	< 0.500	< 0.500	< 0.500	< 0.500
Benzene	2011-09	ug/L	< 0.500	1.33	< 0.500	2.78	< 0.500	< 0.500	< 0.500	0.630	< 0.500	< 0.500	< 0.500	< 0.500
Benzene	2012-03	ug/L	< 0.500	1.91	< 0.500	2.20	< 0.500	< 0.500	< 0.500	0.550	< 0.500	< 0.500	< 0.500	< 0.500
Benzene	2012-09	ug/L	< 0.500	2.51	< 0.500	2.16	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
Benzene	2013-03	ug/L	< 0.500	1.25	< 0.5	2.97	< 0.5	< 0.5	< 0.5	0.659	< 0.500	< 0.5	< 0.5	< 0.5
Benzene	2013-09	ug/L	< 0.500	1.32	< 0.500	2.83	< 0.500	< 0.500	< 0.500	0.584	0.223 J	< 0.500	< 0.500	< 0.500
Benzene	2013-11	ug/L												
Benzene	2014-03	ug/L	< 0.500	3.32	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	0.305 J	< 0.500	< 0.500	< 0.500	< 0.500
Benzene	2014-06	ug/L												
Benzene	2014-09	ug/L	< 0.5	1.28	< 0.5	3.6	< 0.5	< 0.5	< 0.5	0.417 J	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2015-03	ug/L	< 0.500	3.51	< 0.500	2.24	< 0.5	< 0.5	< 0.500	0.312 J	< 0.5	< 0.5	< 0.500	< 0.500
Benzene	2015-06	ug/L						< 0.5	< 0.5					
Benzene	2015-09	ug/L	< 0.5	1.32			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Benzene	2015-10	ug/L			< 0.5	2.63							< 0.5	< 0.5
Benzene	2016-03	ug/L	< 0.5	2.86	< 0.5	5.06	< 0.5	< 0.5	< 0.5	0.764	0.127 J	< 0.5	< 0.5	< 0.5
Benzene	2016-06	ug/L					< 0.5							
Benzene	2016-08	ug/L	< 0.5	2.42	< 0.5	5.21	< 0.5	< 0.5	< 0.5	0.446 J	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2017-03	ug/L	< 0.5	0.599	< 0.5	4.6	0.142 J	< 0.5	< 0.5	0.475 J	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2017-08	ug/L	< 0.5	2.4	< 0.5	3.47	< 0.5	< 0.5	< 0.5	0.263 J	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2017-11	ug/L												
Benzene	2018-03	ug/L	< 0.5	1.46	< 0.5	2.47	< 0.5	< 0.5	< 0.5	0.134 J	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2018-06	ug/L												
Benzene	2018-08	ug/L	< 0.5	3	< 0.5	2.56	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2018-09	ug/L							< 0.5	< 0.5				
Benzene	2018-11	ug/L											< 0.5	
Benzene	2019-03	ug/L	< 0.5	0.458 J	< 0.5	3.63	< 0.5	< 0.5	< 0.5	0.228 J	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2019-04	ug/L												
Benzene	2019-08	ug/L	< 0.5	2.47	< 0.5	4.06	< 0.5	< 0.5	< 0.5	0.483 J	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2020-03	ug/L		2		3.55	< 0.5	< 0.5	< 0.5	0.268 J	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2020-04	ug/L	< 0.5		< 0.5									
Benzene	2020-08	ug/L	< 0.5	2.56	< 0.5	2.41	< 0.5	< 0.5	< 0.5	0.322 J	< 0.5			< 0.5
Benzene	2021-03	ug/L				4.41								
Benzene	2021-08	ug/L	< 0.5	4.94 J	< 0.5	2.58	< 0.5	< 0.5	< 0.5	< 0.5	0.258 J			< 0.5
Benzene	2022-03	ug/L				1.19								
Benzene	2022-08	ug/L	< 0.5	2.32	< 0.5	1.63	< 0.5	< 0.5	0.245 J	< 0.5	< 0.5			< 0.5
Benzene	2023-03	ug/L				0.665								
Benzene	2023-08	ug/L	< 0.5	3.05	< 0.5	0.943	< 0.5	< 0.5	< 0.5	0.267 J	< 0.5			< 0.5
Benzene	2024-03	ug/L				2.55								
Benzene	2024-08	ug/L	< 0.5	2.62	< 0.5	0.86	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5
Benzo(a)anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a)anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a)anthracene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Benzo(a)anthracene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Benzo(a)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Benzo(a)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(a)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(a)anthracene	2015-06	ug/L						< 10.5	< 11.1					
Benzo(a)anthracene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Benzo(a)anthracene	2015-10	ug/L			< 10.3	< 10.5								
Benzo(a)anthracene	2016-03	ug/L												
Benzo(a)anthracene	2016-06	ug/L					< 11.4							
Benzo(a)anthracene	2016-08	ug/L					< 11							
Benzo(a)anthracene	2018-11	ug/L											< 11.6	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Barium	2015-03	mg/L	0.543	0.65	0.0487	~~0.0559~~	0.102	0.158	0.322	0.13	0.28		
Barium	2015-06	mg/L											
Barium	2015-09	mg/L	0.649	0.678	0.047								
Barium	2015-10	mg/L				0.105	0.0991	0.142		0.159	0.279		
Barium	2016-03	mg/L	0.556	0.614	0.0437	0.0682	0.0983	0.145		0.158	0.245		
Barium	2016-06	mg/L											
Barium	2016-08	mg/L	0.513	0.593	0.042	0.0955	0.092	0.15		0.148	0.256		
Barium	2017-03	mg/L	0.462	0.564	0.0505	0.107	0.127	0.194		0.161	0.307		
Barium	2017-08	mg/L	0.604	0.643	0.0415	0.0986	0.094	0.167		0.136	0.376		
Barium	2017-11	mg/L										0.13	0.623
Barium	2018-03	mg/L	0.569	0.672	0.047	0.113	0.104	0.169		0.139	0.312	0.17	0.623
Barium	2018-06	mg/L										0.218	0.759
Barium	2018-08	mg/L	0.558	0.651	0.0413	0.0938		0.193		0.127 J			
Barium	2018-09	mg/L									0.346	0.217	0.683
Barium	2018-11	mg/L										0.195	0.703
Barium	2019-03	mg/L	0.641	0.575	~~0.0515~~	0.115		0.157	0.288	0.14	0.281	0.212	
Barium	2019-04	mg/L											0.639
Barium	2019-08	mg/L	0.636	0.626	0.0438	0.104	0.098	0.179		0.0881	0.425	0.204	0.696
Barium	2020-03	mg/L	0.568	0.652	0.048	0.127	0.123	0.17		0.146	0.355	0.207	0.69
Barium	2020-04	mg/L											
Barium	2020-08	mg/L	0.618	0.633	0.0437	0.115	0.0959			0.0972	0.314	0.182	0.692
Barium	2021-03	mg/L	0.63		0.0461	0.138							0.705
Barium	2021-08	mg/L	0.479	0.661	0.0487	0.129	0.115			0.136	0.722	0.185	0.696
Barium	2022-03	mg/L	0.451		0.0473	0.125							0.705
Barium	2022-08	mg/L	0.529	0.623	0.0447	0.121	0.124			0.137	0.433	0.219	0.772
Barium	2023-03	mg/L	0.449		0.0415	0.114							0.633
Barium	2023-08	mg/L	0.819	0.735	0.0476	0.117	0.108			0.143	0.302	0.183	0.747
Barium	2024-03	mg/L	0.517		0.0459	0.125							0.666
Barium	2024-08	mg/L	0.666	0.594	0.0457	0.122	0.138			0.11	0.326	0.189	0.681
Benzene	2008-08	ug/L	< 0.5	3.26	< 0.5								
Benzene	2009-03	ug/L	< 0.5	2.5	< 0.5								
Benzene	2009-07	ug/L	< 0.5	0.98									
Benzene	2009-09	ug/L	< 0.500	2.70	< 0.500								
Benzene	2010-03	ug/L	< 0.500	1.57	< 0.500								
Benzene	2010-09	ug/L	< 0.500	2.45	< 0.500								
Benzene	2011-03	ug/L	< 0.500	1.32	< 0.500								
Benzene	2011-09	ug/L	< 0.500	1.31	< 0.500								
Benzene	2012-03	ug/L	< 0.500	0.650	< 0.500								
Benzene	2012-09	ug/L	< 0.500	0.630	< 0.500								
Benzene	2013-03	ug/L	0.161 J	0.412 J	< 0.500								
Benzene	2013-09	ug/L	0.360 J	0.744	< 0.500		< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2013-11	ug/L					< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2014-03	ug/L	< 0.500	0.458 J	< 0.500		< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2014-06	ug/L					< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2014-09	ug/L	0.292 J	0.607	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Benzene	2015-03	ug/L	0.396 J	0.216 J	< 0.5		< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		
Benzene	2015-06	ug/L											
Benzene	2015-09	ug/L	0.368 J	0.371 J	< 0.5								
Benzene	2015-10	ug/L				< 0.5	< 0.5	< 0.5		< 0.5	< 0.5		
Benzene	2016-03	ug/L	0.372 J	0.211 J	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5		
Benzene	2016-06	ug/L											
Benzene	2016-08	ug/L	0.363 J	0.285 J	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5		
Benzene	2017-03	ug/L	0.245 J	0.358 J	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5		
Benzene	2017-08	ug/L	0.457 J	0.616	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5		
Benzene	2017-11	ug/L										< 0.5	0.285 J
Benzene	2018-03	ug/L	0.387 J	0.36 J	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	0.257 J
Benzene	2018-06	ug/L										< 0.5	< 0.5
Benzene	2018-08	ug/L	0.286 J	0.494 J	< 0.5	< 0.5		< 0.5		< 0.5			
Benzene	2018-09	ug/L									< 0.5	< 0.5	< 0.5
Benzene	2018-11	ug/L										< 0.5	< 0.5
Benzene	2019-03	ug/L	0.422 J	0.264 J	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Benzene	2019-04	ug/L											< 0.5
Benzene	2019-08	ug/L	0.631	1.33	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2020-03	ug/L	0.316 J	0.569	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2020-04	ug/L											
Benzene	2020-08	ug/L	0.356 J	0.879	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2021-03	ug/L	0.324 J		< 0.5	< 0.5							< 0.5
Benzene	2021-08	ug/L	< 0.5	0.326 J	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2022-03	ug/L	< 0.5		< 0.5	< 0.5							< 0.5
Benzene	2022-08	ug/L	0.225 J	0.506	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2023-03	ug/L	< 0.5		< 0.5	< 0.5							< 0.5
Benzene	2023-08	ug/L	0.56	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5
Benzene	2024-03	ug/L	0.299 J		< 0.5	< 0.5							< 0.5
Benzene	2024-08	ug/L	0.299 J	0.294 J	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)anthracene	2008-08	ug/L	< 10	< 10	< 10								
Benzo(a)anthracene	2009-03	ug/L	< 10	< 10	< 10								
Benzo(a)anthracene	2009-07	ug/L	< 10	< 10	< 10.0								
Benzo(a)anthracene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(a)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(a)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(a)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(a)anthracene	2015-06	ug/L											
Benzo(a)anthracene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Benzo(a)anthracene	2015-10	ug/L				< 10.6							
Benzo(a)anthracene	2016-03	ug/L			< 10	< 10							
Benzo(a)anthracene	2016-06	ug/L											
Benzo(a)anthracene	2016-08	ug/L			< 11.1	< 11.5							
Benzo(a)anthracene	2018-11	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Benzo(a)anthracene	2019-03	ug/L											< 12.2	
Benzo(a)anthracene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Benzo(a)pyrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a)pyrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a)pyrene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Benzo(a)pyrene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Benzo(a)pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Benzo(a)pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(a)pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(a)pyrene	2015-06	ug/L						< 10.5	< 11.1					
Benzo(a)pyrene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Benzo(a)pyrene	2015-10	ug/L			< 10.3	< 10.5								
Benzo(a)pyrene	2016-03	ug/L												
Benzo(a)pyrene	2016-06	ug/L					< 11.4							
Benzo(a)pyrene	2016-08	ug/L					< 11							
Benzo(a)pyrene	2018-11	ug/L											< 11.6	
Benzo(a)pyrene	2019-03	ug/L											< 12.2	
Benzo(a)pyrene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Benzo(b)fluoranthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Benzo(b)fluoranthene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Benzo(b)fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Benzo(b)fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(b)fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(b)fluoranthene	2015-06	ug/L						< 10.5	< 11.1					
Benzo(b)fluoranthene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Benzo(b)fluoranthene	2015-10	ug/L			< 10.3	< 10.5								
Benzo(b)fluoranthene	2016-03	ug/L												
Benzo(b)fluoranthene	2016-06	ug/L					< 11.4							
Benzo(b)fluoranthene	2016-08	ug/L					< 11							
Benzo(b)fluoranthene	2018-11	ug/L											< 11.6	
Benzo(b)fluoranthene	2019-03	ug/L											< 12.2	
Benzo(b)fluoranthene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Benzo(ghi)perylene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(ghi)perylene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(ghi)perylene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Benzo(ghi)perylene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Benzo(ghi)perylene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Benzo(ghi)perylene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(ghi)perylene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(ghi)perylene	2012-03	ug/L												
Benzo(ghi)perylene	2012-09	ug/L												
Benzo(ghi)perylene	2013-03	ug/L												
Benzo(ghi)perylene	2015-06	ug/L						< 10.5	< 11.1					
Benzo(ghi)perylene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Benzo(ghi)perylene	2015-10	ug/L			< 10.3	< 10.5								
Benzo(ghi)perylene	2016-03	ug/L												
Benzo(ghi)perylene	2016-06	ug/L					< 11.4							
Benzo(ghi)perylene	2016-08	ug/L					< 11							
Benzo(ghi)perylene	2018-11	ug/L											< 11.6	
Benzo(ghi)perylene	2019-03	ug/L											< 12.2	
Benzo(ghi)perylene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Benzo(k)fluoranthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Benzo(k)fluoranthene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Benzo(k)fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Benzo(k)fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(k)fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzo(k)fluoranthene	2015-06	ug/L						< 10.5	< 11.1					
Benzo(k)fluoranthene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Benzo(k)fluoranthene	2015-10	ug/L			< 10.3	< 10.5								
Benzo(k)fluoranthene	2016-03	ug/L												
Benzo(k)fluoranthene	2016-06	ug/L					< 11.4							
Benzo(k)fluoranthene	2016-08	ug/L					< 11							
Benzo(k)fluoranthene	2018-11	ug/L											< 11.6	
Benzo(k)fluoranthene	2019-03	ug/L											< 12.2	
Benzo(k)fluoranthene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Benzyl Alcohol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzyl Alcohol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**1.45 J**	< 10	< 10
Benzyl Alcohol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Benzyl Alcohol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Benzyl Alcohol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**0.184 J**	< 10.0	< 10.0
Benzyl Alcohol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzyl Alcohol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Benzyl Alcohol	2012-03	ug/L										< 10.0		
Benzyl Alcohol	2012-09	ug/L										< 10.0		
Benzyl Alcohol	2013-03	ug/L										< 10.5		
Benzyl Alcohol	2013-09	ug/L										< 11.1		
Benzyl Alcohol	2015-06	ug/L						< 10.5	< 11.1					
Benzyl Alcohol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Benzyl Alcohol	2015-10	ug/L			< 10.3	< 10.5								
Benzyl Alcohol	2016-03	ug/L												
Benzyl Alcohol	2016-06	ug/L					< 11.4							
Benzyl Alcohol	2016-08	ug/L					< 11							
Benzyl Alcohol	2018-11	ug/L											< 11.6	
Benzyl Alcohol	2019-03	ug/L											< 12.2	

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Benzo(a)anthracene	2019-03	ug/L											
Benzo(a)anthracene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Benzo(a)pyrene	2008-08	ug/L	< 10	< 10	< 10								
Benzo(a)pyrene	2009-03	ug/L	< 10	< 10	< 10								
Benzo(a)pyrene	2009-07	ug/L	< 10	< 10	< 10.0								
Benzo(a)pyrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(a)pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(a)pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(a)pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(a)pyrene	2015-06	ug/L											
Benzo(a)pyrene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Benzo(a)pyrene	2015-10	ug/L				< 10.6							
Benzo(a)pyrene	2016-03	ug/L			< 10	< 10							
Benzo(a)pyrene	2016-06	ug/L											
Benzo(a)pyrene	2016-08	ug/L			< 11.1	< 11.5							
Benzo(a)pyrene	2018-11	ug/L											
Benzo(a)pyrene	2019-03	ug/L											
Benzo(a)pyrene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Benzo(b)fluoranthene	2008-08	ug/L	< 10	< 10	< 10								
Benzo(b)fluoranthene	2009-03	ug/L	< 10	< 10	< 10								
Benzo(b)fluoranthene	2009-07	ug/L	< 10	< 10	< 10.0								
Benzo(b)fluoranthene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(b)fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(b)fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(b)fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(b)fluoranthene	2015-06	ug/L											
Benzo(b)fluoranthene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Benzo(b)fluoranthene	2015-10	ug/L				< 10.6							
Benzo(b)fluoranthene	2016-03	ug/L			< 10	< 10							
Benzo(b)fluoranthene	2016-06	ug/L											
Benzo(b)fluoranthene	2016-08	ug/L			< 11.1	< 11.5							
Benzo(b)fluoranthene	2018-11	ug/L											
Benzo(b)fluoranthene	2019-03	ug/L											
Benzo(b)fluoranthene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Benzo(ghi)perylene	2008-08	ug/L	< 10	< 10	< 10								
Benzo(ghi)perylene	2009-03	ug/L	< 10	< 10	< 10								
Benzo(ghi)perylene	2009-07	ug/L	< 10	< 10	< 10.0								
Benzo(ghi)perylene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(ghi)perylene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(ghi)perylene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(ghi)perylene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(ghi)perylene	2012-03	ug/L			< 10.0								
Benzo(ghi)perylene	2012-09	ug/L			< 10.0								
Benzo(ghi)perylene	2013-03	ug/L			< 10.4								
Benzo(ghi)perylene	2015-06	ug/L											
Benzo(ghi)perylene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Benzo(ghi)perylene	2015-10	ug/L				< 10.6							
Benzo(ghi)perylene	2016-03	ug/L			< 10	< 10							
Benzo(ghi)perylene	2016-06	ug/L											
Benzo(ghi)perylene	2016-08	ug/L			< 11.1	< 11.5							
Benzo(ghi)perylene	2018-11	ug/L											
Benzo(ghi)perylene	2019-03	ug/L											
Benzo(ghi)perylene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Benzo(k)fluoranthene	2008-08	ug/L	< 10	< 10	< 10								
Benzo(k)fluoranthene	2009-03	ug/L	< 10	< 10	< 10								
Benzo(k)fluoranthene	2009-07	ug/L	< 10	< 10	< 10.0								
Benzo(k)fluoranthene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(k)fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(k)fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(k)fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzo(k)fluoranthene	2015-06	ug/L											
Benzo(k)fluoranthene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Benzo(k)fluoranthene	2015-10	ug/L				< 10.6							
Benzo(k)fluoranthene	2016-03	ug/L			< 10	< 10							
Benzo(k)fluoranthene	2016-06	ug/L											
Benzo(k)fluoranthene	2016-08	ug/L			< 11.1	< 11.5							
Benzo(k)fluoranthene	2018-11	ug/L											
Benzo(k)fluoranthene	2019-03	ug/L											
Benzo(k)fluoranthene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Benzyl Alcohol	2008-08	ug/L	< 10	< 10	< 10								
Benzyl Alcohol	2009-03	ug/L	< 10	< 10	< 10								
Benzyl Alcohol	2009-07	ug/L	< 10	< 10	< 10.0								
Benzyl Alcohol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzyl Alcohol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzyl Alcohol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Benzyl Alcohol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Benzyl Alcohol	2012-03	ug/L			< 10.0								
Benzyl Alcohol	2012-09	ug/L			< 10.0								
Benzyl Alcohol	2013-03	ug/L			< 10.4								
Benzyl Alcohol	2013-09	ug/L											
Benzyl Alcohol	2015-06	ug/L											
Benzyl Alcohol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Benzyl Alcohol	2015-10	ug/L				< 10.6							
Benzyl Alcohol	2016-03	ug/L			< 10	< 10							
Benzyl Alcohol	2016-06	ug/L											
Benzyl Alcohol	2016-08	ug/L			< 11.1	< 11.5							
Benzyl Alcohol	2018-11	ug/L											
Benzyl Alcohol	2019-03	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Benzyl Alcohol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Beryllium	2008-08	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Beryllium	2009-03	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Beryllium	2009-07	mg/L	< 0.004	< 0.004	< 0.004	< 0.004		< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Beryllium	2009-09	mg/L	< 0.00100	< 0.001		< 0.00100		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Beryllium	2010-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2010-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2011-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2011-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2012-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2012-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2013-03	mg/L	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00100	< 0.001	< 0.001	< 0.001
Beryllium	2013-09	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2013-11	mg/L												
Beryllium	2014-03	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Beryllium	2014-06	mg/L												
Beryllium	2014-09	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2015-03	mg/L	< 0.00100	< 0.001	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.00100	< 0.00100
Beryllium	2015-06	mg/L						< 0.001	< 0.001					
Beryllium	2015-09	mg/L	< 0.001	< 0.001			< 0.001	**0.000044 J**	< 0.001	**0.000052 J**	< 0.001	< 0.001		
Beryllium	2015-10	mg/L			< 0.001	**0.00005 J**							< 0.001	< 0.001
Beryllium	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2016-06	mg/L					< 0.001							
Beryllium	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2017-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2017-11	mg/L												
Beryllium	2018-03	mg/L	< 0.001	< 0.001	**0.000157 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2018-06	mg/L												
Beryllium	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2018-09	mg/L							< 0.001	< 0.001				
Beryllium	2018-11	mg/L											< 0.001	
Beryllium	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2019-04	mg/L												
Beryllium	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2020-03	mg/L		< 0.001		< 0.001	< 0.004	< 0.001	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2020-04	mg/L	< 0.001		< 0.001									
Beryllium	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Beryllium	2021-03	mg/L				< 0.001								
Beryllium	2021-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Beryllium	2022-03	mg/L				< 0.001								
Beryllium	2022-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Beryllium	2023-03	mg/L				< 0.001								
Beryllium	2023-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Beryllium	2024-03	mg/L				< 0.001								
Beryllium	2024-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
beta-BHC	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
beta-BHC	2008-09	ug/L										< 0.016		< 0.016
beta-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
beta-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
beta-BHC	2012-03	ug/L												
beta-BHC	2013-03	ug/L												
beta-BHC	2014-03	ug/L												
beta-BHC	2014-09	ug/L												
beta-BHC	2015-03	ug/L												
beta-BHC	2015-06	ug/L						< 0.0348	**0.00666 J**					
beta-BHC	2015-09	ug/L	< 0.0356	**0.0243 J**				< 0.036	< 0.0327	**0.0081 J**	< 0.0352			
beta-BHC	2015-10	ug/L			< 0.0372	< 0.0364								
beta-BHC	2016-03	ug/L												
beta-BHC	2016-06	ug/L					< 0.0364							
beta-BHC	2016-08	ug/L					< 0.0337							
beta-BHC	2017-03	ug/L												
beta-BHC	2017-08	ug/L												
beta-BHC	2018-11	ug/L											< 0.036	
beta-BHC	2019-03	ug/L											< 0.0372	
beta-BHC	2020-08	ug/L	**0.00588 J**	**0.00825 J**	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	**0.0166 J**	< 0.039			
bis(2-Chloroethoxy)methane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Chloroethoxy)methane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Chloroethoxy)methane	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
bis(2-Chloroethoxy)methane	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
bis(2-Chloroethoxy)methane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
bis(2-Chloroethoxy)methane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
bis(2-Chloroethoxy)methane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
bis(2-Chloroethoxy)methane	2015-06	ug/L						< 10.5	< 11.1					
bis(2-Chloroethoxy)methane	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
bis(2-Chloroethoxy)methane	2015-10	ug/L			< 10.3	< 10.5								
bis(2-Chloroethoxy)methane	2016-03	ug/L												
bis(2-Chloroethoxy)methane	2016-06	ug/L					< 11.4							
bis(2-Chloroethoxy)methane	2016-08	ug/L					< 11							
bis(2-Chloroethoxy)methane	2018-11	ug/L											< 11.6	
bis(2-Chloroethoxy)methane	2019-03	ug/L											< 12.2	
bis(2-Chloroethoxy)methane	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
bis(2-Chloroethyl)ether	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Chloroethyl)ether	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Chloroethyl)ether	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
bis(2-Chloroethyl)ether	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
bis(2-Chloroethyl)ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
bis(2-Chloroethyl)ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Benzyl Alcohol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Beryllium	2008-08	mg/L	< 0.004	< 0.004	~~< 0.004~~								
Beryllium	2009-03	mg/L	< 0.004	< 0.004	~~< 0.004~~								
Beryllium	2009-07	mg/L	< 0.004	< 0.004	~~< 0.004~~								
Beryllium	2009-09	mg/L	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2010-03	mg/L	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2010-09	mg/L	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2011-03	mg/L	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2011-09	mg/L	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2012-03	mg/L	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2012-09	mg/L	< 0.00100	< 0.00100	< 0.00100								
Beryllium	2013-03	mg/L	< 0.001	< 0.001	< 0.00100								
Beryllium	2013-09	mg/L	< 0.00100	< 0.00100	< 0.00100	~~**0.000364 J**~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Beryllium	2013-11	mg/L				~~**0.00141**~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Beryllium	2014-03	mg/L	< 0.00100	< 0.00100	< 0.00100	~~< 0.00100~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Beryllium	2014-06	mg/L				~~< 0.00100~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Beryllium	2014-09	mg/L	< 0.001	< 0.001	< 0.001	~~**0.000071 J**~~	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Beryllium	2015-03	mg/L	< 0.00100	< 0.00100	< 0.001	~~**0.0000470 J**~~	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100		
Beryllium	2015-06	mg/L											
Beryllium	2015-09	mg/L	< 0.001	< 0.001	< 0.001								
Beryllium	2015-10	mg/L				< 0.001	< 0.001	**0.000047 J**		< 0.001	< 0.001		
Beryllium	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		
Beryllium	2016-06	mg/L											
Beryllium	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		
Beryllium	2017-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		
Beryllium	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		
Beryllium	2017-11	mg/L										< 0.001	< 0.001
Beryllium	2018-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2018-06	mg/L										< 0.001	< 0.001
Beryllium	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001		< 0.001			
Beryllium	2018-09	mg/L									< 0.001	< 0.001	< 0.001
Beryllium	2018-11	mg/L										< 0.001	< 0.001
Beryllium	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Beryllium	2019-04	mg/L											< 0.001
Beryllium	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2020-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2020-04	mg/L											
Beryllium	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2021-03	mg/L	< 0.001		< 0.001	< 0.001							< 0.001
Beryllium	2021-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			**0.00112**	< 0.001	< 0.001	< 0.001
Beryllium	2022-03	mg/L	< 0.001		< 0.001	< 0.001							< 0.001
Beryllium	2022-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2023-03	mg/L	< 0.001		< 0.001	< 0.001							< 0.001
Beryllium	2023-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	2024-03	mg/L	< 0.001		< 0.001	< 0.001							< 0.001
Beryllium	2024-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
beta-BHC	2008-08	ug/L	< 0.047	< 0.053									
beta-BHC	2008-09	ug/L			< 0.016								
beta-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
beta-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
beta-BHC	2012-03	ug/L			< 0.0320								
beta-BHC	2013-03	ug/L			< 0.0344								
beta-BHC	2014-03	ug/L			< 0.0330								
beta-BHC	2014-09	ug/L			< 0.032								
beta-BHC	2015-03	ug/L			< 0.0337								
beta-BHC	2015-06	ug/L											
beta-BHC	2015-09	ug/L	**0.00867 J**	**0.0127 J**	< 0.0352								
beta-BHC	2015-10	ug/L				< 0.0364							
beta-BHC	2016-03	ug/L			< 0.034	< 0.0356							
beta-BHC	2016-06	ug/L											
beta-BHC	2016-08	ug/L			< 0.0356	< 0.0327							
beta-BHC	2017-03	ug/L			< 0.0337	< 0.0356							
beta-BHC	2017-08	ug/L			< 0.0337	< 0.0344							
beta-BHC	2018-11	ug/L											
beta-BHC	2019-03	ug/L											
beta-BHC	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
bis(2-Chloroethoxy)methane	2008-08	ug/L	< 10	< 10	< 10								
bis(2-Chloroethoxy)methane	2009-03	ug/L	< 10	< 10	< 10								
bis(2-Chloroethoxy)methane	2009-07	ug/L	< 10	< 10	< 10.0								
bis(2-Chloroethoxy)methane	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethoxy)methane	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethoxy)methane	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethoxy)methane	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethoxy)methane	2015-06	ug/L											
bis(2-Chloroethoxy)methane	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
bis(2-Chloroethoxy)methane	2015-10	ug/L				< 10.6							
bis(2-Chloroethoxy)methane	2016-03	ug/L			< 10	< 10							
bis(2-Chloroethoxy)methane	2016-06	ug/L											
bis(2-Chloroethoxy)methane	2016-08	ug/L			< 11.1	< 11.5							
bis(2-Chloroethoxy)methane	2018-11	ug/L											
bis(2-Chloroethoxy)methane	2019-03	ug/L											
bis(2-Chloroethoxy)methane	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
bis(2-Chloroethyl)ether	2008-08	ug/L	< 10	< 10	< 10								
bis(2-Chloroethyl)ether	2009-03	ug/L	< 10	< 10	< 10								
bis(2-Chloroethyl)ether	2009-07	ug/L	< 10	< 10	< 10.0								
bis(2-Chloroethyl)ether	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethyl)ether	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethyl)ether	2010-09	ug/L	< 10.0	< 10.0	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
bis(2-Chloroethyl)ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
bis(2-Chloroethyl)ether	2012-03	ug/L												
bis(2-Chloroethyl)ether	2012-09	ug/L												
bis(2-Chloroethyl)ether	2013-03	ug/L												
bis(2-Chloroethyl)ether	2015-06	ug/L						< 10.5	< 11.1					
bis(2-Chloroethyl)ether	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
bis(2-Chloroethyl)ether	2015-10	ug/L			< 10.3	< 10.5								
bis(2-Chloroethyl)ether	2016-03	ug/L												
bis(2-Chloroethyl)ether	2016-06	ug/L					< 11.4							
bis(2-Chloroethyl)ether	2016-08	ug/L					< 11							
bis(2-Chloroethyl)ether	2018-11	ug/L											< 11.6	
bis(2-Chloroethyl)ether	2019-03	ug/L											< 12.2	
bis(2-Chloroethyl)ether	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
bis(2-Ethylhexyl)phthalate	2008-08	ug/L	**4.49 J**	**1.93 J**	**3.03 J**	< 10	**5.72 J**	**3.97 J**	**7.35 J**	< 10	**5.26 J**	**11.2**	**13**	**4.25 J**
bis(2-Ethylhexyl)phthalate	2009-03	ug/L	**7.6 J**	**23.5**	**9.91 J**	**4.45 J**	**7.17 J**	**23.6**	**10**	**3.93 J**	**9.43 J**	**15.1**	**10.7**	**15**
bis(2-Ethylhexyl)phthalate	2009-07	ug/L	**5.87 J**	**4.17 J**	**6.13 J**	< 10	**11.1**	**5.5 J**	**7.34 J**	**5.56 J**	**7.63 J**	**9.64 J**	< 10	**3.07 J**
bis(2-Ethylhexyl)phthalate	2009-09	ug/L	**10.9**	**4.03 J**	**12.4**	**0.449 J**	**19.7**	**8.99 J**	**23.6**	**33**	**25.8**	**1.12 J**	**15.9**	**10.6**
bis(2-Ethylhexyl)phthalate	2010-03	ug/L	**0.500 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
bis(2-Ethylhexyl)phthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
bis(2-Ethylhexyl)phthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
bis(2-Ethylhexyl)phthalate	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
bis(2-Ethylhexyl)phthalate	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
bis(2-Ethylhexyl)phthalate	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0			< 10.0	**2.92 J**	< 10.0	< 10.0	**1.03 J**	**7.20 J**
bis(2-Ethylhexyl)phthalate	2013-03	ug/L	< 10.2 J	< 10.2 J	< 10.6 J	< 10.8 J			< 10.9 J	< 10.9 J	< 10.2 J	< 10.5 J	< 10.2 J	< 11.1 J
bis(2-Ethylhexyl)phthalate	2013-09	ug/L	**0.744 J**	**0.496 J**	< 10.8	< 10.9	< 10.2	< 10.2	< 10.2	< 10.3 J	< 10.9	< 11.1 J	< 10.4	< 10.6
bis(2-Ethylhexyl)phthalate	2014-03	ug/L	< 10.9	< 10.2	< 10.6		< 10.6	< 10.6	< 10.2	< 10.5	< 10.4		< 10.8	< 10.4
bis(2-Ethylhexyl)phthalate	2014-09	ug/L	< 10	< 10	< 10		< 10	< 10.5	< 10	< 10	< 10		< 10	< 10.2
bis(2-Ethylhexyl)phthalate	2015-03	ug/L	**0.477 J**	< 10.9 J	< 10.4					< 10.8	< 10.1 J			
bis(2-Ethylhexyl)phthalate	2015-06	ug/L						< 10.5 J	< 11.1 J					
bis(2-Ethylhexyl)phthalate	2015-09	ug/L	< 11.1 J	< 11.2 J				< 11.1 J	< 10.2 J	< 11.2 J	< 11.1 J			
bis(2-Ethylhexyl)phthalate	2015-10	ug/L			< 10.3 J	< 10.5 J								
bis(2-Ethylhexyl)phthalate	2016-03	ug/L	< 11.1 J	< 11.2 J	< 11 J			< 10 J	< 10.6 J	< 11.1 J	< 10 J			
bis(2-Ethylhexyl)phthalate	2016-06	ug/L					< 11.4							
bis(2-Ethylhexyl)phthalate	2016-08	ug/L	< 11	< 11	< 11		< 11	< 10.8	< 10.9	< 11.2	< 11.5			
bis(2-Ethylhexyl)phthalate	2017-03	ug/L	< 10.4	< 10.5	< 10.9		< 10.8	< 11	< 10.4	< 10.4	< 10.5			
bis(2-Ethylhexyl)phthalate	2017-08	ug/L	< 11.1	< 11.1	< 10.8 J		< 10.9	< 10.9	< 11.1 J	< 10.5	< 11.1			
bis(2-Ethylhexyl)phthalate	2018-03	ug/L	< 10.4	< 11.9	< 10.9		< 10.9	< 11.1	< 11.1	< 11.6	< 11.1			
bis(2-Ethylhexyl)phthalate	2018-08	ug/L	< 11.1	< 10.9	< 11.4		< 11.4	< 11			< 11.1			
bis(2-Ethylhexyl)phthalate	2018-09	ug/L							< 10.9	< 11				
bis(2-Ethylhexyl)phthalate	2018-11	ug/L											< 11.6	
bis(2-Ethylhexyl)phthalate	2019-03	ug/L	< 11	< 11.5	< 11		< 11	< 11.1	< 11	< 11.5	< 11.5		< 12.2	
bis(2-Ethylhexyl)phthalate	2019-08	ug/L	< 10.9	< 10.6	< 10.6		< 10.8	< 10.8	< 10.7	< 50.8	**2.47 J**		< 10.5	
bis(2-Ethylhexyl)phthalate	2020-03	ug/L		< 11.2			< 11.1	< 10.8	< 10.9	< 10.9	< 10.8		< 11.2	
bis(2-Ethylhexyl)phthalate	2020-04	ug/L	< 10.6		< 10.5									
bis(2-Ethylhexyl)phthalate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
bis(2-Ethylhexyl)phthalate	2021-03	ug/L												
bis(2-Ethylhexyl)phthalate	2021-08	ug/L	< 11.5	< 11.1	< 11.6		< 11.1	< 11.6	< 11	< 11.6	< 11.2			
bis(2-Ethylhexyl)phthalate	2022-03	ug/L												
bis(2-Ethylhexyl)phthalate	2022-08	ug/L	< 10	< 10.4	< 10		< 10	< 10	< 10	< 10	< 10.4			
bis(2-Ethylhexyl)phthalate	2023-03	ug/L												
bis(2-Ethylhexyl)phthalate	2023-08	ug/L	< 10.9	< 10.9	< 9.43		< 11.4	< 11.1	< 10	< 11.1	< 11.6			
bis(2-Ethylhexyl)phthalate	2024-03	ug/L												
bis(2-Ethylhexyl)phthalate	2024-08	ug/L	< 10	< 10.4	< 10.4		< 12.5	< 10.9	< 10.4	< 9.62	< 10.4			
Bromochloromethane	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2009-07	ug/L	< 5	< 5	< 5	< 5		< 5	< 5.00	< 5.00	< 5			
Bromochloromethane	2009-09	ug/L	< 5.00	< 5	< 5.00	< 25.0		< 5	< 5	< 5	< 5			
Bromochloromethane	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00				< 5.00				
Bromochloromethane	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2013-03	ug/L	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5	< 5	< 5
Bromochloromethane	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2013-11	ug/L												
Bromochloromethane	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromochloromethane	2014-06	ug/L												
Bromochloromethane	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2015-03	ug/L	< 5.00	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00
Bromochloromethane	2015-06	ug/L						< 5	< 5					
Bromochloromethane	2015-09	ug/L	< 5	< 5			< 5	< 5	< 5	< 5	< 5	< 5		
Bromochloromethane	2015-10	ug/L			< 5	< 5							< 5	< 5
Bromochloromethane	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2016-06	ug/L					< 5							
Bromochloromethane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2017-11	ug/L												
Bromochloromethane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2018-06	ug/L												
Bromochloromethane	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromochloromethane	2018-09	ug/L							< 5	< 5				
Bromochloromethane	2018-11	ug/L											< 5	
Bromochloromethane	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2019-04	ug/L												
Bromochloromethane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	2020-03	ug/L		< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
bis(2-Chloroethyl)ether	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Chloroethyl)ether	2012-03	ug/L			< 10.0								
bis(2-Chloroethyl)ether	2012-09	ug/L			< 10.0								
bis(2-Chloroethyl)ether	2013-03	ug/L			< 10.4								
bis(2-Chloroethyl)ether	2015-06	ug/L											
bis(2-Chloroethyl)ether	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
bis(2-Chloroethyl)ether	2015-10	ug/L				< 10.6							
bis(2-Chloroethyl)ether	2016-03	ug/L			< 10	< 10							
bis(2-Chloroethyl)ether	2016-06	ug/L											
bis(2-Chloroethyl)ether	2016-08	ug/L			< 11.1	< 11.5							
bis(2-Chloroethyl)ether	2018-11	ug/L											
bis(2-Chloroethyl)ether	2019-03	ug/L											
bis(2-Chloroethyl)ether	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
bis(2-Ethylhexyl)phthalate	2008-08	ug/L	**4.44 J**	**3.61 J**	**25.4**								
bis(2-Ethylhexyl)phthalate	2009-03	ug/L	**2.78 J**	**38.5**	**9.28 J**								
bis(2-Ethylhexyl)phthalate	2009-07	ug/L	**8.31 J**	< 10	**0.423 J**								
bis(2-Ethylhexyl)phthalate	2009-09	ug/L	**11.4**	**14.0**	**13.5**								
bis(2-Ethylhexyl)phthalate	2010-03	ug/L	**0.390 J**	< 10.0	< 10.0								
bis(2-Ethylhexyl)phthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Ethylhexyl)phthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Ethylhexyl)phthalate	2011-09	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Ethylhexyl)phthalate	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
bis(2-Ethylhexyl)phthalate	2012-09	ug/L	< 10.0	**0.761 J**	< 10.0								
bis(2-Ethylhexyl)phthalate	2013-03	ug/L	< 10.5 J	< 21.5	< 10.4 J								
bis(2-Ethylhexyl)phthalate	2013-09	ug/L	**0.457 J**	**0.470 J**	< 10.2								
bis(2-Ethylhexyl)phthalate	2014-03	ug/L	< 10.3	< 10.3	< 10.2								
bis(2-Ethylhexyl)phthalate	2014-09	ug/L	< 10.4	< 10	< 10								
bis(2-Ethylhexyl)phthalate	2015-03	ug/L	< 11.0	**0.681 J**	< 10.6 J								
bis(2-Ethylhexyl)phthalate	2015-06	ug/L											
bis(2-Ethylhexyl)phthalate	2015-09	ug/L	**12.1**	< 10.5 J	< 11.2 J								
bis(2-Ethylhexyl)phthalate	2015-10	ug/L				< 10.6 J							
bis(2-Ethylhexyl)phthalate	2016-03	ug/L	< 10 J	< 11 J	< 10 J	< 10 J							
bis(2-Ethylhexyl)phthalate	2016-06	ug/L											
bis(2-Ethylhexyl)phthalate	2016-08	ug/L	< 11.1	< 10.6	< 11.1	< 11.5							
bis(2-Ethylhexyl)phthalate	2017-03	ug/L	< 10.5	< 10.5	< 10.2	< 11.4							
bis(2-Ethylhexyl)phthalate	2017-08	ug/L	< 10.9 J	< 11.1	< 10.6	< 11.1							
bis(2-Ethylhexyl)phthalate	2018-03	ug/L	< 11.1	< 11	< 11.2	< 12							
bis(2-Ethylhexyl)phthalate	2018-08	ug/L	< 11.1	< 11.1	< 11	< 11.1							
bis(2-Ethylhexyl)phthalate	2018-09	ug/L											
bis(2-Ethylhexyl)phthalate	2018-11	ug/L											
bis(2-Ethylhexyl)phthalate	2019-03	ug/L	< 111	< 11.4	< 11.5	< 10.9							
bis(2-Ethylhexyl)phthalate	2019-08	ug/L	< 10.5	< 10.5	< 10.7	< 10.2							
bis(2-Ethylhexyl)phthalate	2020-03	ug/L	< 10.5	< 10.8	< 11.1	< 11.6							
bis(2-Ethylhexyl)phthalate	2020-04	ug/L											
bis(2-Ethylhexyl)phthalate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
bis(2-Ethylhexyl)phthalate	2021-03	ug/L	< 11.8		< 11.8	< 11.8							
bis(2-Ethylhexyl)phthalate	2021-08	ug/L	< 10.6	< 12.5	< 11.8	< 11							
bis(2-Ethylhexyl)phthalate	2022-03	ug/L	< 10		< 12.5	< 11.9							
bis(2-Ethylhexyl)phthalate	2022-08	ug/L	< 10.6	< 10.4	< 10.2	< 10.4							
bis(2-Ethylhexyl)phthalate	2023-03	ug/L	< 11.1		< 10.6	< 10.6							
bis(2-Ethylhexyl)phthalate	2023-08	ug/L	< 10.9	< 10	< 9.8	< 11.6							
bis(2-Ethylhexyl)phthalate	2024-03	ug/L	< 10		< 10.2	< 10.6							
bis(2-Ethylhexyl)phthalate	2024-08	ug/L	< 10	< 10	< 10	< 10.4							
Bromochloromethane	2008-08	ug/L	< 5	< 5	< 5								
Bromochloromethane	2009-03	ug/L	< 5	< 5	< 5								
Bromochloromethane	2009-07	ug/L	< 5	< 5									
Bromochloromethane	2009-09	ug/L	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2010-03	ug/L	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2010-09	ug/L	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2011-03	ug/L	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2011-09	ug/L	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2012-03	ug/L	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2012-09	ug/L	< 5.00	< 5.00	< 5.00								
Bromochloromethane	2013-03	ug/L	< 5	< 5	< 5.00								
Bromochloromethane	2013-09	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromochloromethane	2013-11	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromochloromethane	2014-03	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromochloromethane	2014-06	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromochloromethane	2014-09	ug/L	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
Bromochloromethane	2015-03	ug/L	< 5.00	< 5.00	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromochloromethane	2015-06	ug/L											
Bromochloromethane	2015-09	ug/L	< 5	< 5	< 5								
Bromochloromethane	2015-10	ug/L				< 5	< 5	< 5		< 5	< 5		
Bromochloromethane	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Bromochloromethane	2016-06	ug/L											
Bromochloromethane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Bromochloromethane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Bromochloromethane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Bromochloromethane	2017-11	ug/L										< 5	< 5
Bromochloromethane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Bromochloromethane	2018-06	ug/L										< 5	< 5
Bromochloromethane	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5		< 5			
Bromochloromethane	2018-09	ug/L									< 5	< 5	< 5
Bromochloromethane	2018-11	ug/L										< 5	< 5
Bromochloromethane	2019-03	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	
Bromochloromethane	2019-04	ug/L											< 5
Bromochloromethane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Bromochloromethane	2020-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Bromochloromethane	2020-04	ug/L	< 5		< 5									
Bromochloromethane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromochloromethane	2021-03	ug/L				< 5								
Bromochloromethane	2021-08	ug/L	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromochloromethane	2022-03	ug/L				< 5								
Bromochloromethane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromochloromethane	2023-03	ug/L				< 5								
Bromochloromethane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromochloromethane	2024-03	ug/L				< 5								
Bromochloromethane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromodichloromethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Bromodichloromethane	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Bromodichloromethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
Bromodichloromethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2013-11	ug/L												
Bromodichloromethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bromodichloromethane	2014-06	ug/L												
Bromodichloromethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
Bromodichloromethane	2015-06	ug/L						< 1	< 1					
Bromodichloromethane	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Bromodichloromethane	2015-10	ug/L			< 1	< 1							< 1	< 1
Bromodichloromethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2016-06	ug/L					< 1							
Bromodichloromethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2017-11	ug/L												
Bromodichloromethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2018-06	ug/L												
Bromodichloromethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Bromodichloromethane	2018-09	ug/L							< 1	< 1				
Bromodichloromethane	2018-11	ug/L											< 1	
Bromodichloromethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2019-04	ug/L												
Bromodichloromethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	2020-04	ug/L	< 1		< 1									
Bromodichloromethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Bromodichloromethane	2021-03	ug/L				< 1								
Bromodichloromethane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Bromodichloromethane	2022-03	ug/L				< 1								
Bromodichloromethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Bromodichloromethane	2023-03	ug/L				< 1								
Bromodichloromethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Bromodichloromethane	2024-03	ug/L				< 1								
Bromodichloromethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Bromoform	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2009-07	ug/L	< 5	< 5	< 5	< 5		< 5	< 5.00	< 5.00	< 5			
Bromoform	2009-09	ug/L	< 5.00	< 5	< 5.00	< 25.0		< 5	< 5	< 5	< 5			
Bromoform	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2013-03	ug/L	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5 J	< 5	< 5.00	< 5	< 5	< 5
Bromoform	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2013-11	ug/L												
Bromoform	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	2014-06	ug/L												
Bromoform	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2015-03	ug/L	< 5.00	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00
Bromoform	2015-06	ug/L						< 5	< 5					
Bromoform	2015-09	ug/L	< 5	< 5			< 5	< 5	< 5	< 5	< 5	< 5		
Bromoform	2015-10	ug/L			< 5	< 5							< 5	< 5
Bromoform	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2016-06	ug/L					< 5							
Bromoform	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2017-11	ug/L												
Bromoform	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2018-06	ug/L												
Bromoform	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromoform	2018-09	ug/L							< 5	< 5				
Bromoform	2018-11	ug/L											< 5	
Bromoform	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2019-04	ug/L												

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Bromochloromethane	2020-04	ug/L											
Bromochloromethane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromochloromethane	2021-03	ug/L	< 5		< 5	< 5							< 5
Bromochloromethane	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromochloromethane	2022-03	ug/L	< 5		< 5	< 5							< 5
Bromochloromethane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromochloromethane	2023-03	ug/L	< 5		< 5	< 5							< 5
Bromochloromethane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromochloromethane	2024-03	ug/L	< 5		< 5	< 5							< 5
Bromochloromethane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromodichloromethane	2008-08	ug/L	< 1	< 1	< 1								
Bromodichloromethane	2009-03	ug/L	< 1	< 1	< 1								
Bromodichloromethane	2009-07	ug/L	< 1	< 1									
Bromodichloromethane	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
Bromodichloromethane	2013-03	ug/L	< 1	< 1	< 1.00								
Bromodichloromethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Bromodichloromethane	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Bromodichloromethane	2015-06	ug/L											
Bromodichloromethane	2015-09	ug/L	< 1	< 1	< 1								
Bromodichloromethane	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Bromodichloromethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Bromodichloromethane	2016-06	ug/L											
Bromodichloromethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Bromodichloromethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Bromodichloromethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Bromodichloromethane	2017-11	ug/L										< 1	< 1
Bromodichloromethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Bromodichloromethane	2018-06	ug/L										< 1	< 1
Bromodichloromethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
Bromodichloromethane	2018-09	ug/L									< 1	< 1	< 1
Bromodichloromethane	2018-11	ug/L										< 1	< 1
Bromodichloromethane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Bromodichloromethane	2019-04	ug/L											< 1
Bromodichloromethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Bromodichloromethane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Bromodichloromethane	2020-04	ug/L											
Bromodichloromethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Bromodichloromethane	2021-03	ug/L	< 1		< 1	< 1							< 1
Bromodichloromethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Bromodichloromethane	2022-03	ug/L	< 1		< 1	< 1							< 1
Bromodichloromethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Bromodichloromethane	2023-03	ug/L	< 1		< 1	< 1							< 1
Bromodichloromethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Bromodichloromethane	2024-03	ug/L	< 1		< 1	< 1							< 1
Bromodichloromethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Bromoform	2008-08	ug/L	< 5	< 5	< 5								
Bromoform	2009-03	ug/L	< 5	< 5	< 5								
Bromoform	2009-07	ug/L	< 5	< 5									
Bromoform	2009-09	ug/L	< 5.00	< 5.00	< 5.00								
Bromoform	2010-03	ug/L	< 5.00	< 5.00	< 5.00								
Bromoform	2010-09	ug/L	< 5.00	< 5.00	< 5.00								
Bromoform	2011-03	ug/L	< 5.00	< 5.00	< 5.00								
Bromoform	2011-09	ug/L	< 5.00	< 5.00	< 5.00								
Bromoform	2012-03	ug/L	< 5.00	< 5.00	< 5.00								
Bromoform	2012-09	ug/L	< 5.00	< 5.00	< 5.00								
Bromoform	2013-03	ug/L	< 5	< 5	< 5.00								
Bromoform	2013-09	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2013-11	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2014-03	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2014-06	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2014-09	ug/L	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
Bromoform	2015-03	ug/L	< 5.00	< 5.00	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Bromoform	2015-06	ug/L											
Bromoform	2015-09	ug/L	< 5	< 5	< 5								
Bromoform	2015-10	ug/L				< 5	< 5	< 5		< 5	< 5		
Bromoform	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Bromoform	2016-06	ug/L											
Bromoform	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Bromoform	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Bromoform	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Bromoform	2017-11	ug/L										< 5	< 5
Bromoform	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Bromoform	2018-06	ug/L										< 5	< 5
Bromoform	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5		< 5			
Bromoform	2018-09	ug/L									< 5	< 5	< 5
Bromoform	2018-11	ug/L										< 5	< 5
Bromoform	2019-03	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	
Bromoform	2019-04	ug/L											< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Bromoform	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2020-03	ug/L		< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	2020-04	ug/L	< 5		< 5									
Bromoform	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromoform	2021-03	ug/L				< 5								
Bromoform	2021-08	ug/L	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromoform	2022-03	ug/L				< 5								
Bromoform	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromoform	2023-03	ug/L				< 5								
Bromoform	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromoform	2024-03	ug/L				< 5								
Bromoform	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Bromomethane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2009-07	ug/L	< 4	< 4	< 4	< 4		< 4	< 4.00	< 4.00	< 4			
Bromomethane	2009-09	ug/L	< 4.00	< 4	< 4.00	< 20.0		< 4	< 4	< 4	< 4			
Bromomethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2011-09	ug/L	< 10.0	< 4.00	< 4.00	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 4.00	< 10.0	< 10.0	< 4.00
Bromomethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2012-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2013-03	ug/L	< 4.00	< 4.00	< 4	< 4	< 4	< 4	< 4	< 4	< 4.00	< 4	< 4	< 4
Bromomethane	2013-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	**3.97 J**	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2013-11	ug/L												
Bromomethane	2014-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Bromomethane	2014-06	ug/L												
Bromomethane	2014-09	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2015-03	ug/L	< 4.00	< 4	< 4.00	< 4.00	< 4	< 4	< 4.00	< 4.00	< 4	< 4	< 4.00	< 4.00
Bromomethane	2015-06	ug/L						< 4	< 4					
Bromomethane	2015-09	ug/L	< 4	< 4			< 4	< 4	< 4	< 4	< 4	< 4		
Bromomethane	2015-10	ug/L			< 4	< 4							< 4	< 4
Bromomethane	2016-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4 J	< 4	< 4	**0.253 J**	**0.301 J**
Bromomethane	2016-06	ug/L					< 4							
Bromomethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2017-11	ug/L												
Bromomethane	2018-03	ug/L	< 4	< 4	**0.248 J**	< 4	< 4	**0.249 J**	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2018-06	ug/L												
Bromomethane	2018-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Bromomethane	2018-09	ug/L							< 4	< 4				
Bromomethane	2018-11	ug/L											< 4	
Bromomethane	2019-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	**2.04 J**	< 4	< 4	< 4	< 4	< 4
Bromomethane	2019-04	ug/L												
Bromomethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2020-03	ug/L		< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromomethane	2020-04	ug/L	< 4		< 4									
Bromomethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Bromomethane	2021-03	ug/L				< 4								
Bromomethane	2021-08	ug/L	< 4	< 40	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Bromomethane	2022-03	ug/L				< 4								
Bromomethane	2022-08	ug/L	< 4	< 4	< 4	**3.23 J**	< 4	< 4	< 4	< 4	< 4			< 4
Bromomethane	2023-03	ug/L				< 4								
Bromomethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Bromomethane	2024-03	ug/L				< 4								
Bromomethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Butylbenzylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Butylbenzylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Butylbenzylphthalate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Butylbenzylphthalate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Butylbenzylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Butylbenzylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				**0.514 J**				
Butylbenzylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Butylbenzylphthalate	2011-09	ug/L								< 10.0				
Butylbenzylphthalate	2012-03	ug/L								< 10.0				
Butylbenzylphthalate	2012-09	ug/L								< 10.0				
Butylbenzylphthalate	2013-03	ug/L								< 10.9				
Butylbenzylphthalate	2013-09	ug/L								< 10.3				
Butylbenzylphthalate	2015-06	ug/L						< 10.5	< 11.1					
Butylbenzylphthalate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Butylbenzylphthalate	2015-10	ug/L			< 10.3	< 10.5								
Butylbenzylphthalate	2016-03	ug/L												
Butylbenzylphthalate	2016-06	ug/L					< 11.4							
Butylbenzylphthalate	2016-08	ug/L					< 11							
Butylbenzylphthalate	2018-11	ug/L											< 11.6	
Butylbenzylphthalate	2019-03	ug/L											< 12.2	
Butylbenzylphthalate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Cadmium	2008-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	2009-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	2009-07	mg/L	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	2009-09	mg/L	< 0.000500	< 0.0005		< 0.000500		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		
Cadmium	2010-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2010-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2011-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2011-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2012-03	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2012-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Bromoform	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Bromoform	2020-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Bromoform	2020-04	ug/L											
Bromoform	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromoform	2021-03	ug/L	< 5		< 5	< 5							< 5
Bromoform	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromoform	2022-03	ug/L	< 5		< 5	< 5							< 5
Bromoform	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromoform	2023-03	ug/L	< 5		< 5	< 5							< 5
Bromoform	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromoform	2024-03	ug/L	< 5		< 5	< 5							< 5
Bromoform	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Bromomethane	2008-08	ug/L	< 4	< 4	< 4								
Bromomethane	2009-03	ug/L	< 4	< 4	< 4								
Bromomethane	2009-07	ug/L	< 4	< 4									
Bromomethane	2009-09	ug/L	< 4.00	< 4.00	< 4.00								
Bromomethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00								
Bromomethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00								
Bromomethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00								
Bromomethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00								
Bromomethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00								
Bromomethane	2012-09	ug/L	< 4.00	< 4.00	< 4.00								
Bromomethane	2013-03	ug/L	< 4	< 4	< 4.00								
Bromomethane	2013-09	ug/L	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Bromomethane	2013-11	ug/L					< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Bromomethane	2014-03	ug/L	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Bromomethane	2014-06	ug/L					< 4.00 J	< 4.00	< 4.00	< 4.00	< 4.00		
Bromomethane	2014-09	ug/L	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4		
Bromomethane	2015-03	ug/L	< 4.00	< 4.00	< 4		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Bromomethane	2015-06	ug/L											
Bromomethane	2015-09	ug/L	< 4	< 4	< 4								
Bromomethane	2015-10	ug/L				< 4	< 4	< 4		< 4	< 4		
Bromomethane	2016-03	ug/L	**0.269 J**	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Bromomethane	2016-06	ug/L											
Bromomethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Bromomethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Bromomethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Bromomethane	2017-11	ug/L										**0.504 J**	**0.736 J**
Bromomethane	2018-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4
Bromomethane	2018-06	ug/L										< 4	< 4
Bromomethane	2018-08	ug/L	< 4	< 4	< 4	< 4		< 4		< 4			
Bromomethane	2018-09	ug/L									< 4	< 4	< 4
Bromomethane	2018-11	ug/L										< 4	< 4
Bromomethane	2019-03	ug/L	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	
Bromomethane	2019-04	ug/L											< 4
Bromomethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4
Bromomethane	2020-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4
Bromomethane	2020-04	ug/L											
Bromomethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Bromomethane	2021-03	ug/L	< 4		< 4	< 4							< 4
Bromomethane	2021-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Bromomethane	2022-03	ug/L	< 4		< 4	< 4							< 4
Bromomethane	2022-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Bromomethane	2023-03	ug/L	< 4		< 4	< 4							< 4
Bromomethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Bromomethane	2024-03	ug/L	< 4		< 4	< 4							< 4
Bromomethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Butylbenzylphthalate	2008-08	ug/L	< 10	< 10	< 10								
Butylbenzylphthalate	2009-03	ug/L	< 10	< 10	< 10								
Butylbenzylphthalate	2009-07	ug/L	< 10	< 10	< 10.0								
Butylbenzylphthalate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Butylbenzylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Butylbenzylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Butylbenzylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Butylbenzylphthalate	2011-09	ug/L			< 10.0								
Butylbenzylphthalate	2012-03	ug/L			< 10.0								
Butylbenzylphthalate	2012-09	ug/L			< 10.0								
Butylbenzylphthalate	2013-03	ug/L			< 10.4								
Butylbenzylphthalate	2013-09	ug/L											
Butylbenzylphthalate	2015-06	ug/L											
Butylbenzylphthalate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Butylbenzylphthalate	2015-10	ug/L				< 10.6							
Butylbenzylphthalate	2016-03	ug/L			< 10	< 10							
Butylbenzylphthalate	2016-06	ug/L											
Butylbenzylphthalate	2016-08	ug/L			< 11.1	< 11.5							
Butylbenzylphthalate	2018-11	ug/L											
Butylbenzylphthalate	2019-03	ug/L											
Butylbenzylphthalate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Cadmium	2008-08	mg/L	< 0.005	< 0.005	~~< 0.005~~								
Cadmium	2009-03	mg/L	< 0.005	< 0.005	~~< 0.005~~								
Cadmium	2009-07	mg/L	< 0.005	< 0.005	~~< 0.005~~								
Cadmium	2009-09	mg/L	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2010-03	mg/L	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2010-09	mg/L	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2011-03	mg/L	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2011-09	mg/L	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2012-03	mg/L	< 0.000500	< 0.000500	< 0.000500								
Cadmium	2012-09	mg/L	< 0.000500	< 0.000500	**0.000824**								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Cadmium	2013-03	mg/L	< 0.000500	< 0.000500	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000500	< 0.0005	< 0.0005	< 0.0005
Cadmium	2013-09	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2013-11	mg/L												
Cadmium	2014-03	mg/L	**0.0000816 J**	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Cadmium	2014-06	mg/L												
Cadmium	2014-09	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cadmium	2015-03	mg/L	< 0.000500	**0.000215 J**	< 0.000500	< 0.000500	< 0.0005	< 0.0005	< 0.000500	< 0.000500	< 0.0005	< 0.0005	< 0.000500	< 0.000500
Cadmium	2015-06	mg/L						< 0.0005	< 0.0005					
Cadmium	2015-09	mg/L	< 0.0005	< 0.0005			**0.000311 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		
Cadmium	2015-10	mg/L			< 0.0005	< 0.0005							< 0.0005	< 0.0005
Cadmium	2016-03	mg/L	**0.000059 J**	**0.00005 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cadmium	2016-06	mg/L					**0.000093 J**							
Cadmium	2016-08	mg/L	**0.000144 J**	**0.000234 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000048 J**	< 0.0005
Cadmium	2017-03	mg/L	**0.000103 J**	< 0.0005	**0.000051 J**	< 0.0005	**0.000065 J**	**0.000055 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000051 J**
Cadmium	2017-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000589**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cadmium	2017-11	mg/L												
Cadmium	2018-03	mg/L	**0.000084 J**	< 0.0005	**0.000058 J**	< 0.0005	**0.000324 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000082 J**	< 0.0005
Cadmium	2018-06	mg/L												
Cadmium	2018-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cadmium	2018-09	mg/L							< 0.0005	**0.000223 J**				
Cadmium	2018-11	mg/L											< 0.0005	
Cadmium	2019-03	mg/L	**0.000088 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000316 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cadmium	2019-04	mg/L												
Cadmium	2019-08	mg/L	**0.000074 J**	< 0.0001	< 0.0001	< 0.0001	**0.000189**	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	**0.000043 J**	**0.000056 J**
Cadmium	2020-03	mg/L		**0.000064 J**		< 0.0001	< 0.0004	< 0.0001	< 0.0004	< 0.0001	< 0.0001	< 0.0001	**0.00004 J**	**0.000044 J**
Cadmium	2020-04	mg/L	**0.000074 J**		< 0.0001									
Cadmium	2020-08	mg/L	**0.000103**	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001			< 0.0001
Cadmium	2021-03	mg/L				< 0.0001								
Cadmium	2021-08	mg/L	**0.000084 J**	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001			< 0.0001
Cadmium	2022-03	mg/L				< 0.0001								
Cadmium	2022-08	mg/L	**0.000087 J**	**0.000214**	**0.000081 J**	< 0.0001	< 0.0001	< 0.0001	**0.000058 J**	< 0.0001	< 0.0001			< 0.0001
Cadmium	2023-03	mg/L				**0.000135**								
Cadmium	2023-08	mg/L	< 0.0002	**0.000107 J**	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	**0.000149 J**	**0.000162 J**			< 0.0002
Cadmium	2024-03	mg/L				< 0.0002								
Cadmium	2024-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002			< 0.0002
Carbon Disulfide	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Carbon Disulfide	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Carbon Disulfide	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 2.00
Carbon Disulfide	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 1.00	< 1.00	< 1.00	< 4.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1 J	< 1.00	< 1	< 1	< 1 J
Carbon Disulfide	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2013-11	ug/L												
Carbon Disulfide	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Carbon Disulfide	2014-06	ug/L												
Carbon Disulfide	2014-09	ug/L	< 1	< 1	< 1	**0.253 J**	< 1	**0.152 J**	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
Carbon Disulfide	2015-06	ug/L						< 1	< 1					
Carbon Disulfide	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Carbon Disulfide	2015-10	ug/L			< 1	< 1							< 1	< 1
Carbon Disulfide	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2016-06	ug/L					< 1							
Carbon Disulfide	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2017-08	ug/L	< 1	< 1	< 1	**0.25 J**	< 1	**0.262 J**	**0.167 J**	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2017-11	ug/L												
Carbon Disulfide	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**0.169 J**	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2018-06	ug/L												
Carbon Disulfide	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Carbon Disulfide	2018-09	ug/L							< 1	< 1				
Carbon Disulfide	2018-11	ug/L											< 1	
Carbon Disulfide	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2019-04	ug/L												
Carbon Disulfide	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2020-03	ug/L		< 1		**0.519 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	2020-04	ug/L	< 1		< 1									
Carbon Disulfide	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Carbon Disulfide	2021-03	ug/L				< 1								
Carbon Disulfide	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Carbon Disulfide	2022-03	ug/L				< 1								
Carbon Disulfide	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	**1.42**	< 1	< 1			< 1
Carbon Disulfide	2023-03	ug/L				< 1								
Carbon Disulfide	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Carbon Disulfide	2024-03	ug/L				< 1								
Carbon Disulfide	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Carbon Tetrachloride	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2009-07	ug/L	< 2	< 2	< 2	< 2		< 2	< 2.00	< 2.00	< 2			
Carbon Tetrachloride	2009-09	ug/L	< 2.00	< 2	< 2.00	< 10.0		< 2	< 2	< 2	< 2			
Carbon Tetrachloride	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 4.00	< 4.00	< 4.00	< 5.00	< 4.00	< 4.00	< 4.00	< 4.00
Carbon Tetrachloride	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2011-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Cadmium	2013-03	mg/L	< 0.0005	< 0.0005	< 0.000500								
Cadmium	2013-09	mg/L	< 0.000500	< 0.000500	< 0.000500	~~< 0.000500~~	< 0.000500	< 0.000500	< 0.000500	**0.000227 J**	< 0.000500		
Cadmium	2013-11	mg/L				~~0.000119 J~~	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500		
Cadmium	2014-03	mg/L	< 0.000500	< 0.000500	< 0.000500	~~< 0.000500~~	**0.0000815 J**	< 0.000500	< 0.000500	< 0.000500	**0.000100 J**		
Cadmium	2014-06	mg/L				~~< 0.000500~~	< 0.000500	< 0.000500	< 0.000500	**0.0000957 J**	< 0.000500		
Cadmium	2014-09	mg/L	< 0.0005	< 0.0005	< 0.0005	~~< 0.0005~~	< 0.0005	< 0.0005	< 0.0005	**0.000114 J**	< 0.0005		
Cadmium	2015-03	mg/L	< 0.000500	< 0.000500	< 0.0005	~~< 0.000500~~	< 0.000500	< 0.000500	< 0.000500	**0.000137 J**	< 0.000500		
Cadmium	2015-06	mg/L											
Cadmium	2015-09	mg/L	< 0.0005	< 0.0005	< 0.0005								
Cadmium	2015-10	mg/L				< 0.0005	< 0.0005	< 0.0005		**0.000152 J**	< 0.0005		
Cadmium	2016-03	mg/L	**0.000059 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000044 J**		**0.000138 J**	< 0.0005		
Cadmium	2016-06	mg/L											
Cadmium	2016-08	mg/L	< 0.0005	**0.00006 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005		**0.000144 J**	< 0.0005		
Cadmium	2017-03	mg/L	**0.000128 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000054 J**		**0.000145 J**	**0.000054 J**		
Cadmium	2017-08	mg/L	**0.000116 J**	**0.000224 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005		**0.000076 J**	< 0.0005		
Cadmium	2017-11	mg/L										< 0.0005	< 0.0005
Cadmium	2018-03	mg/L	**0.000088 J**	**0.000374 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005		**0.000093 J**	**0.000112 J**	< 0.0005	< 0.0005
Cadmium	2018-06	mg/L										< 0.0005	< 0.0005
Cadmium	2018-08	mg/L	**0.000108 J**	**0.000355 J**	< 0.0005	< 0.0005		< 0.0005		**0.000075 J**			
Cadmium	2018-09	mg/L									< 0.0005	< 0.0005	< 0.0005
Cadmium	2018-11	mg/L										< 0.0005	< 0.0005
Cadmium	2019-03	mg/L	**0.00085**	**0.000085 J**	< 0.0005	< 0.0005		< 0.0005	**0.000094 J**	**0.0001 J**	< 0.0005	< 0.0005	
Cadmium	2019-04	mg/L											< 0.0005
Cadmium	2019-08	mg/L	**0.000145**	**0.000086 J**	< 0.0001	< 0.0001	**0.00005 J**	**0.000053 J**		< 0.0001	< 0.0001	< 0.0001	< 0.0001
Cadmium	2020-03	mg/L	**0.000244**	**0.000077 J**	< 0.0001	< 0.0001	**0.000054 J**	**0.000048 J**		**0.000099 J**	**0.000077 J**	< 0.0001	< 0.0001
Cadmium	2020-04	mg/L											
Cadmium	2020-08	mg/L	**0.000148**	< 0.0001	< 0.0001	< 0.0001	**0.000096 J**			< 0.0001	< 0.0001	< 0.0001	< 0.0001
Cadmium	2021-03	mg/L	**0.000324**		< 0.0001	< 0.0001							< 0.0001
Cadmium	2021-08	mg/L	< 0.0001	**0.000083 J**	< 0.0001	< 0.0001	< 0.0001			**0.000124**	< 0.0001	< 0.0001	< 0.0001
Cadmium	2022-03	mg/L	**0.000111**		< 0.0001	< 0.0001							< 0.0001
Cadmium	2022-08	mg/L	< 0.0001	**0.000099 J**	< 0.0001	< 0.0001	< 0.0001			**0.000116**	< 0.0001	< 0.0001	< 0.0001
Cadmium	2023-03	mg/L	< 0.0001		< 0.0001	< 0.0001							< 0.0001
Cadmium	2023-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002			**0.0001 J**	< 0.0002	< 0.0002	< 0.0002
Cadmium	2024-03	mg/L	< 0.0002		< 0.0002	< 0.0002							< 0.0002
Cadmium	2024-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Carbon Disulfide	2008-08	ug/L	< 1	< 1	< 1								
Carbon Disulfide	2009-03	ug/L	< 1	< 1	< 1								
Carbon Disulfide	2009-07	ug/L	< 1	< 1									
Carbon Disulfide	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2010-09	ug/L	< 4.00	< 4.00	< 4.00								
Carbon Disulfide	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
Carbon Disulfide	2013-03	ug/L	< 1	< 1	< 1.00								
Carbon Disulfide	2013-09	ug/L	< 1.00	< 1.00	< 1.00		**0.199 J**	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2014-03	ug/L	**0.226 J**	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Carbon Disulfide	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Carbon Disulfide	2015-06	ug/L											
Carbon Disulfide	2015-09	ug/L	< 1	< 1	< 1								
Carbon Disulfide	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Carbon Disulfide	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Carbon Disulfide	2016-06	ug/L											
Carbon Disulfide	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Carbon Disulfide	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Carbon Disulfide	2017-08	ug/L	< 1	**0.185 J**	< 1	< 1	< 1	< 1		< 1	< 1		
Carbon Disulfide	2017-11	ug/L										**0.172 J**	**0.161 J**
Carbon Disulfide	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	**0.422 J**	**0.171 J**
Carbon Disulfide	2018-06	ug/L										**0.517 J**	< 1
Carbon Disulfide	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
Carbon Disulfide	2018-09	ug/L									< 1	< 1	< 1
Carbon Disulfide	2018-11	ug/L										< 1	< 1
Carbon Disulfide	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Carbon Disulfide	2019-04	ug/L											< 1
Carbon Disulfide	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Carbon Disulfide	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Carbon Disulfide	2020-04	ug/L											
Carbon Disulfide	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Carbon Disulfide	2021-03	ug/L	< 1		< 1	< 1							< 1
Carbon Disulfide	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Carbon Disulfide	2022-03	ug/L	< 1		< 1	< 1							< 1
Carbon Disulfide	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Carbon Disulfide	2023-03	ug/L	< 1		< 1	< 1							< 1
Carbon Disulfide	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Carbon Disulfide	2024-03	ug/L	< 1		< 1	< 1							< 1
Carbon Disulfide	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Carbon Tetrachloride	2008-08	ug/L	< 2	< 2	< 2								
Carbon Tetrachloride	2009-03	ug/L	< 2	< 2	< 2								
Carbon Tetrachloride	2009-07	ug/L	< 2	< 2									
Carbon Tetrachloride	2009-09	ug/L	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2010-09	ug/L	< 5.00	< 5.00	< 5.00								
Carbon Tetrachloride	2011-03	ug/L	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2011-09	ug/L	< 2.00	< 2.00	< 2.00								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Carbon Tetrachloride	2012-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2012-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2013-03	ug/L	< 2.00	< 2.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2.00	< 2	< 2	< 2
Carbon Tetrachloride	2013-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2013-11	ug/L												
Carbon Tetrachloride	2014-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Carbon Tetrachloride	2014-06	ug/L												
Carbon Tetrachloride	2014-09	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2015-03	ug/L	< 2.00	< 2	< 2.00	< 2.00	< 2	< 2	< 2.00	< 2.00	< 2	< 2	< 2.00	< 2.00
Carbon Tetrachloride	2015-06	ug/L						< 2	< 2					
Carbon Tetrachloride	2015-09	ug/L	< 2	< 2			< 2	< 2	< 2	< 2	< 2	< 2		
Carbon Tetrachloride	2015-10	ug/L			< 2	< 2							< 2	< 2
Carbon Tetrachloride	2016-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2016-06	ug/L					< 2							
Carbon Tetrachloride	2016-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2017-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2017-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2017-11	ug/L												
Carbon Tetrachloride	2018-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2018-06	ug/L												
Carbon Tetrachloride	2018-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
Carbon Tetrachloride	2018-09	ug/L							< 2	< 2				
Carbon Tetrachloride	2018-11	ug/L											< 2	
Carbon Tetrachloride	2019-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2019-04	ug/L												
Carbon Tetrachloride	2019-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2020-03	ug/L		< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	2020-04	ug/L	< 2		< 2									
Carbon Tetrachloride	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2
Carbon Tetrachloride	2021-03	ug/L				< 2								
Carbon Tetrachloride	2021-08	ug/L	< 2	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2
Carbon Tetrachloride	2022-03	ug/L				< 2								
Carbon Tetrachloride	2022-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2
Carbon Tetrachloride	2023-03	ug/L				< 2								
Carbon Tetrachloride	2023-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2
Carbon Tetrachloride	2024-03	ug/L				< 2								
Carbon Tetrachloride	2024-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			< 2
Chlorobenzene	2008-08	ug/L	< 1	**7.56**	< 1	**2.78**	< 1	< 1	< 1	**2.75**	**1.74**	< 1	< 1	< 1
Chlorobenzene	2009-03	ug/L	< 1	**4.56**	< 1	**3.92**	< 1	< 1	< 1	**2.68**	< 1	< 1	< 1	< 1
Chlorobenzene	2009-07	ug/L	< 1	**5.18**	< 1	**2.82**		< 1	< 1.00	**3.91**	< 1			
Chlorobenzene	2009-09	ug/L	< 1.00	**9.26**	< 1.00	< 5.00		< 1	< 1	**3.61**	< 1			
Chlorobenzene	2010-03	ug/L	< 1.00	**4.09**	< 1.00	**6.13**	< 1.00	< 1.00	< 1.00	**3.72**	< 1.00	< 1.00	< 1.00	< 1.00
Chlorobenzene	2010-09	ug/L	< 1.00	**5.30**	< 1.00	**4.52**	< 1.00	< 1.00	< 1.00	**3.82**	< 1.00	< 1.00	< 1.00	< 1.00
Chlorobenzene	2011-03	ug/L	< 1.00	**4.91**	< 1.00	**4.09**	< 1.00	< 1.00	< 1.00	**4.54**	< 1.00	< 1.00	< 1.00	< 1.00
Chlorobenzene	2011-09	ug/L	< 1.00	**5.59**	< 1.00	**3.70**	< 1.00	< 1.00	< 1.00	**3.37**	< 1.00	< 1.00	< 1.00	< 1.00
Chlorobenzene	2012-03	ug/L	< 1.00	**4.98**	< 1.00	**3.63**	< 1.00	< 1.00	< 1.00	**4.42**	< 1.00	< 1.00	< 1.00	< 1.00
Chlorobenzene	2012-09	ug/L	< 1.00	**4.99**	< 1.00	**3.38**	< 1.00	< 1.00	< 1.00	**3.33**	< 1.00	< 1.00	< 1.00	< 1.00
Chlorobenzene	2013-03	ug/L	< 1.00	**4.09**	< 1	**4.76**	< 1	< 1	< 1	**3.68**	< 1.00	< 1	< 1	< 1
Chlorobenzene	2013-09	ug/L	< 1.00	**6.08**	< 1.00	**3.93**	< 1.00	< 1.00	< 1.00	**3.82**	**0.829 J**	< 1.00	< 1.00	< 1.00
Chlorobenzene	2013-11	ug/L												
Chlorobenzene	2014-03	ug/L	< 1.00	**5.34**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**3.08**	< 1.00	< 1.00	< 1.00	< 1.00
Chlorobenzene	2014-06	ug/L												
Chlorobenzene	2014-09	ug/L	< 1	**6.61**	< 1	**3.91**	< 1	< 1	< 1	**4.08**	**0.633 J**	< 1	< 1	< 1
Chlorobenzene	2015-03	ug/L	< 1.00	< 1	< 1.00	**2.82**	< 1	< 1	< 1.00	**4.19**	**0.892 J**	< 1	< 1.00	< 1.00
Chlorobenzene	2015-06	ug/L						< 1	< 1					
Chlorobenzene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	**1.9**	< 1	< 1		
Chlorobenzene	2015-10	ug/L			< 1	< 1							< 1	< 1
Chlorobenzene	2016-03	ug/L	< 1	< 1	< 1	**4.23**	< 1	< 1	< 1	**4.24**	**0.688 J**	< 1	< 1	< 1
Chlorobenzene	2016-06	ug/L					< 1							
Chlorobenzene	2016-08	ug/L	< 1	< 1	< 1	**4.04**	< 1	< 1	< 1	**4.29**	**0.536 J**	< 1	< 1	< 1
Chlorobenzene	2017-03	ug/L	< 1	< 1	< 1	**4.12**	< 1	< 1	< 1	**3.24**	**0.426 J**	< 1	< 1	< 1
Chlorobenzene	2017-08	ug/L	< 1	< 1	< 1	**3.11**	< 1	< 1	< 1	**3.24**	**0.725 J**	< 1	< 1	< 1
Chlorobenzene	2017-11	ug/L												
Chlorobenzene	2018-03	ug/L	< 1	< 1	< 1	**3.05**	< 1	< 1	< 1	**4.33**	**0.67 J**	< 1	< 1	< 1
Chlorobenzene	2018-06	ug/L												
Chlorobenzene	2018-08	ug/L	< 1	< 1	< 1	**2.82**	< 1	< 1			**0.466 J**	< 1	< 1	< 1
Chlorobenzene	2018-09	ug/L							< 1	< 1				
Chlorobenzene	2018-11	ug/L											< 1	
Chlorobenzene	2019-03	ug/L	< 1	**3.4**	< 1	**3.43**	< 1	< 1	< 1	**2.91**	**0.534 J**	< 1	< 1	< 1
Chlorobenzene	2019-04	ug/L												
Chlorobenzene	2019-08	ug/L	< 1	< 1	< 1	**3.08**	< 1	< 1	< 1	**3.85**	< 1	< 1	< 1	< 1
Chlorobenzene	2020-03	ug/L		< 1		**3.7**	< 1	< 1	< 1	**4.14**	**0.557 J**	< 1	< 1	< 1
Chlorobenzene	2020-04	ug/L	< 1		< 1									
Chlorobenzene	2020-08	ug/L	< 1	< 1	< 1	**3.06**	< 1	< 1	< 1	**4.58**	**0.584 J**			< 1
Chlorobenzene	2021-03	ug/L				**4.14**								
Chlorobenzene	2021-08	ug/L	< 1	< 10	< 1	**2.93**	< 1	< 1	< 1	**3.86**	< 1			< 1
Chlorobenzene	2022-03	ug/L				**1.98**								
Chlorobenzene	2022-08	ug/L	< 1	< 1	< 1	**2.68**	< 1	< 1	< 1	**3.61**	**0.445 J**			< 1
Chlorobenzene	2023-03	ug/L				**1.72**								
Chlorobenzene	2023-08	ug/L	< 1	< 1	< 1	**2.06**	< 1	< 1	< 1	< 1	**0.727 J**			< 1
Chlorobenzene	2024-03	ug/L				**3.2**								
Chlorobenzene	2024-08	ug/L	< 1	**0.432 J**	< 1	**2.26**	< 1	< 1	< 1	**3.01**	**0.971 J**			< 1
Chlorobenzilate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzilate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzilate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Chlorobenzilate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Chlorobenzilate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chlorobenzilate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Carbon Tetrachloride	2012-03	ug/L	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2012-09	ug/L	< 2.00	< 2.00	< 2.00								
Carbon Tetrachloride	2013-03	ug/L	< 2	< 2	< 2.00								
Carbon Tetrachloride	2013-09	ug/L	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Carbon Tetrachloride	2013-11	ug/L					< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Carbon Tetrachloride	2014-03	ug/L	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Carbon Tetrachloride	2014-06	ug/L					< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Carbon Tetrachloride	2014-09	ug/L	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2		
Carbon Tetrachloride	2015-03	ug/L	< 2.00	< 2.00	< 2		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Carbon Tetrachloride	2015-06	ug/L											
Carbon Tetrachloride	2015-09	ug/L	< 2	< 2	< 2								
Carbon Tetrachloride	2015-10	ug/L				< 2	< 2	< 2		< 2	< 2		
Carbon Tetrachloride	2016-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2		
Carbon Tetrachloride	2016-06	ug/L											
Carbon Tetrachloride	2016-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2		
Carbon Tetrachloride	2017-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2		
Carbon Tetrachloride	2017-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2		
Carbon Tetrachloride	2017-11	ug/L										< 2	< 2
Carbon Tetrachloride	2018-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2
Carbon Tetrachloride	2018-06	ug/L										< 2	< 2
Carbon Tetrachloride	2018-08	ug/L	< 2	< 2	< 2	< 2		< 2		< 2			
Carbon Tetrachloride	2018-09	ug/L									< 2	< 2	< 2
Carbon Tetrachloride	2018-11	ug/L										< 2	< 2
Carbon Tetrachloride	2019-03	ug/L	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2	
Carbon Tetrachloride	2019-04	ug/L											< 2
Carbon Tetrachloride	2019-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2
Carbon Tetrachloride	2020-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	< 2
Carbon Tetrachloride	2020-04	ug/L											
Carbon Tetrachloride	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
Carbon Tetrachloride	2021-03	ug/L	< 2		< 2	< 2							< 2
Carbon Tetrachloride	2021-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
Carbon Tetrachloride	2022-03	ug/L	< 2		< 2	< 2							< 2
Carbon Tetrachloride	2022-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
Carbon Tetrachloride	2023-03	ug/L	< 2		< 2	< 2							< 2
Carbon Tetrachloride	2023-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
Carbon Tetrachloride	2024-03	ug/L	< 2		< 2	< 2							< 2
Carbon Tetrachloride	2024-08	ug/L	< 2	< 2	< 2	< 2	< 2			< 2	< 2	< 2	< 2
Chlorobenzene	2008-08	ug/L	**3.25**	**7.88**	< 1								
Chlorobenzene	2009-03	ug/L	**2.23**	**6.23**	< 1								
Chlorobenzene	2009-07	ug/L	**2.24**	< 1									
Chlorobenzene	2009-09	ug/L	**2.68**	**6.33**	< 1.00								
Chlorobenzene	2010-03	ug/L	**2.64**	**4.82**	< 1.00								
Chlorobenzene	2010-09	ug/L	**3.13**	**9.48**	< 1.00								
Chlorobenzene	2011-03	ug/L	**2.68**	**7.31**	< 1.00								
Chlorobenzene	2011-09	ug/L	**3.08**	**9.62**	< 1.00								
Chlorobenzene	2012-03	ug/L	**2.76**	**6.82**	< 1.00								
Chlorobenzene	2012-09	ug/L	**3.40**	**9.86**	< 1.00								
Chlorobenzene	2013-03	ug/L	**2.49**	**5.97**	< 1.00								
Chlorobenzene	2013-09	ug/L	**4.23**	**9.25**	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2014-03	ug/L	< 1.00	**7.70**	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2014-09	ug/L	**4.11**	**8.95**	< 1		< 1	< 1	< 1	< 1	< 1		
Chlorobenzene	2015-03	ug/L	**5.36**	**5.80**	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chlorobenzene	2015-06	ug/L											
Chlorobenzene	2015-09	ug/L	**4.92**	**6.06**	< 1								
Chlorobenzene	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Chlorobenzene	2016-03	ug/L	**4.69**	**4.41**	< 1	< 1	< 1	< 1		< 1	< 1		
Chlorobenzene	2016-06	ug/L											
Chlorobenzene	2016-08	ug/L	**5**	**5.82**	< 1	< 1	< 1	< 1		< 1	< 1		
Chlorobenzene	2017-03	ug/L	**3.92**	**7.2**	< 1	< 1	< 1	< 1		< 1	< 1		
Chlorobenzene	2017-08	ug/L	**5.82**	**9.3**	< 1	< 1	< 1	< 1		< 1	< 1		
Chlorobenzene	2017-11	ug/L										< 1	**5.13**
Chlorobenzene	2018-03	ug/L	**5.65**	**7.83**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	**7.23**
Chlorobenzene	2018-06	ug/L										< 1	**5.87**
Chlorobenzene	2018-08	ug/L	**5.13**	**9.99**	< 1	< 1		< 1		< 1			
Chlorobenzene	2018-09	ug/L									< 1	< 1	**6.87**
Chlorobenzene	2018-11	ug/L										< 1	**6.26**
Chlorobenzene	2019-03	ug/L	**5.68**	**6.22**	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Chlorobenzene	2019-04	ug/L											**7.57**
Chlorobenzene	2019-08	ug/L	**7.41**	**14.4**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	**6.6**
Chlorobenzene	2020-03	ug/L	**5.88**	**11.5**	< 1	< 1	< 1	< 1		< 1	< 1	< 1	**7.43**
Chlorobenzene	2020-04	ug/L											
Chlorobenzene	2020-08	ug/L	**6.08**	**15.4**	< 1	< 1	< 1			< 1	< 1	< 1	**7.33**
Chlorobenzene	2021-03	ug/L	**5.74**		< 1	< 1							**6.78**
Chlorobenzene	2021-08	ug/L	**3.81**	**6.83**	< 1	< 1	< 1			< 1	< 1	< 1	**6.76**
Chlorobenzene	2022-03	ug/L	**2.96**		< 1	< 1							**7.07**
Chlorobenzene	2022-08	ug/L	**4.19**	**8.74**	< 1	< 1	< 1			< 1	< 1	< 1	**6.71**
Chlorobenzene	2023-03	ug/L	**4.04**		< 1	< 1							**7.41**
Chlorobenzene	2023-08	ug/L	**7.1**	**6.29**	< 1	< 1	< 1			< 1	< 1	< 1	**6.68**
Chlorobenzene	2024-03	ug/L	**5.33**		< 1	< 1							**8.2**
Chlorobenzene	2024-08	ug/L	**6.92**	**6.98**	< 1	< 1	< 1			< 1	< 1	< 1	**7.14**
Chlorobenzilate	2008-08	ug/L	< 10	< 10	< 10								
Chlorobenzilate	2009-03	ug/L	< 10	< 10	< 10								
Chlorobenzilate	2009-07	ug/L	< 10	< 10	< 10.0								
Chlorobenzilate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Chlorobenzilate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Chlorobenzilate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Chlorobenzilate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Chlorobenzilate	2015-06	ug/L						< 10.5	< 11.1					
Chlorobenzilate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Chlorobenzilate	2015-10	ug/L			< 10.3	< 10.5								
Chlorobenzilate	2016-03	ug/L												
Chlorobenzilate	2016-06	ug/L					< 11.4							
Chlorobenzilate	2016-08	ug/L					< 11							
Chlorobenzilate	2018-11	ug/L											< 11.6	
Chlorobenzilate	2019-03	ug/L											< 12.2	
Chlorobenzilate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Chlorodibromomethane	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2009-07	ug/L	< 5	< 5	< 5	< 5		< 5	< 5.00	< 5.00	< 5			
Chlorodibromomethane	2009-09	ug/L	< 5.00	< 5	< 5.00	< 25.0		< 5	< 5	< 5	< 5			
Chlorodibromomethane	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00	< 5.00	< 5.00	< 10.0	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2013-03	ug/L	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5	< 5	< 5
Chlorodibromomethane	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2013-11	ug/L												
Chlorodibromomethane	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorodibromomethane	2014-06	ug/L												
Chlorodibromomethane	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2015-03	ug/L	< 5.00	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00
Chlorodibromomethane	2015-06	ug/L						< 5	< 5					
Chlorodibromomethane	2015-09	ug/L	< 5	< 5			< 5	< 5	< 5	< 5	< 5	< 5		
Chlorodibromomethane	2015-10	ug/L			< 5	< 5							< 5	< 5
Chlorodibromomethane	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2016-06	ug/L					< 5							
Chlorodibromomethane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2017-11	ug/L												
Chlorodibromomethane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2018-06	ug/L												
Chlorodibromomethane	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Chlorodibromomethane	2018-09	ug/L							< 5	< 5				
Chlorodibromomethane	2018-11	ug/L											< 5	
Chlorodibromomethane	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2019-04	ug/L												
Chlorodibromomethane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2020-03	ug/L		< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorodibromomethane	2020-04	ug/L	< 5		< 5									
Chlorodibromomethane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Chlorodibromomethane	2021-03	ug/L				< 5								
Chlorodibromomethane	2021-08	ug/L	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Chlorodibromomethane	2022-03	ug/L				< 5								
Chlorodibromomethane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Chlorodibromomethane	2023-03	ug/L				< 5								
Chlorodibromomethane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Chlorodibromomethane	2024-03	ug/L				< 5								
Chlorodibromomethane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Chloroethane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2009-03	ug/L	< 4	< 4	< 4	**4.42**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2009-07	ug/L	< 4	< 4	< 4	< 4		< 4	< 4.00	< 4.00	< 4			
Chloroethane	2009-09	ug/L	< 4.00	< 4	< 4.00	< 20.0		< 4	< 4	< 4	< 4			
Chloroethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	**6.52**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	**4.00**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2012-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2013-03	ug/L	< 4.00	**1.27 J**	< 4	**3.33 J**	< 4	< 4	< 4	**2.14 J**	< 4.00	< 4	< 4	< 4
Chloroethane	2013-09	ug/L	< 4.00	< 4.00	< 4.00	**2.82 J**	< 4.00	< 4.00	< 4.00	**0.898 J**	**0.904 J**	< 4.00	< 4.00	< 4.00
Chloroethane	2013-11	ug/L												
Chloroethane	2014-03	ug/L	< 4.00	**2.65 J**	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Chloroethane	2014-06	ug/L												
Chloroethane	2014-09	ug/L	< 4	< 4	< 4	**2.85 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2015-03	ug/L	< 4.00	< 4	< 4.00	< 4.00	< 4	< 4	< 4.00	**0.500 J**	< 4	< 4	< 4.00	< 4.00
Chloroethane	2015-06	ug/L						< 4	< 4					
Chloroethane	2015-09	ug/L	< 4	< 4			< 4	< 4	< 4	< 4	< 4	< 4		
Chloroethane	2015-10	ug/L			< 4	**3.09 J**							< 4	< 4
Chloroethane	2016-03	ug/L	< 4	< 4	< 4	**4.69**	< 4	< 4	< 4	**0.641 J**	< 4	< 4	< 4	< 4
Chloroethane	2016-06	ug/L					< 4							
Chloroethane	2016-08	ug/L	< 4	< 4	< 4	**3.3 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2017-03	ug/L	< 4	< 4	< 4	**3.86 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2017-08	ug/L	< 4	< 4	< 4	**2.92 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2017-11	ug/L												
Chloroethane	2018-03	ug/L	< 4	< 4	< 4	**0.499 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2018-06	ug/L												
Chloroethane	2018-08	ug/L	< 4	< 4	< 4	**3.45 J**	< 4	< 4			< 4	< 4	< 4	< 4
Chloroethane	2018-09	ug/L							< 4	< 4				
Chloroethane	2018-11	ug/L											< 4	
Chloroethane	2019-03	ug/L	< 4	< 4	< 4	**2.5 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2019-04	ug/L												

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Chlorobenzilate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Chlorobenzilate	2015-06	ug/L											
Chlorobenzilate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Chlorobenzilate	2015-10	ug/L				< 10.6							
Chlorobenzilate	2016-03	ug/L			< 10	< 10							
Chlorobenzilate	2016-06	ug/L											
Chlorobenzilate	2016-08	ug/L			< 11.1	< 11.5							
Chlorobenzilate	2018-11	ug/L											
Chlorobenzilate	2019-03	ug/L											
Chlorobenzilate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Chlorodibromomethane	2008-08	ug/L	< 5	< 5	< 5								
Chlorodibromomethane	2009-03	ug/L	< 5	< 5	< 5								
Chlorodibromomethane	2009-07	ug/L	< 5	< 5									
Chlorodibromomethane	2009-09	ug/L	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2010-03	ug/L	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Chlorodibromomethane	2011-03	ug/L	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2011-09	ug/L	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2012-03	ug/L	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2012-09	ug/L	< 5.00	< 5.00	< 5.00								
Chlorodibromomethane	2013-03	ug/L	< 5	< 5	< 5.00								
Chlorodibromomethane	2013-09	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2013-11	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2014-03	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2014-06	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2014-09	ug/L	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
Chlorodibromomethane	2015-03	ug/L	< 5.00	< 5.00	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Chlorodibromomethane	2015-06	ug/L											
Chlorodibromomethane	2015-09	ug/L	< 5	< 5	< 5								
Chlorodibromomethane	2015-10	ug/L				< 5	< 5	< 5		< 5	< 5		
Chlorodibromomethane	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Chlorodibromomethane	2016-06	ug/L											
Chlorodibromomethane	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Chlorodibromomethane	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Chlorodibromomethane	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Chlorodibromomethane	2017-11	ug/L										< 5	< 5
Chlorodibromomethane	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Chlorodibromomethane	2018-06	ug/L										< 5	< 5
Chlorodibromomethane	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5		< 5			
Chlorodibromomethane	2018-09	ug/L									< 5	< 5	< 5
Chlorodibromomethane	2018-11	ug/L										< 5	< 5
Chlorodibromomethane	2019-03	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	
Chlorodibromomethane	2019-04	ug/L											< 5
Chlorodibromomethane	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Chlorodibromomethane	2020-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Chlorodibromomethane	2020-04	ug/L											
Chlorodibromomethane	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Chlorodibromomethane	2021-03	ug/L	< 5		< 5	< 5							< 5
Chlorodibromomethane	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Chlorodibromomethane	2022-03	ug/L	< 5		< 5	< 5							< 5
Chlorodibromomethane	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Chlorodibromomethane	2023-03	ug/L	< 5		< 5	< 5							< 5
Chlorodibromomethane	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Chlorodibromomethane	2024-03	ug/L	< 5		< 5	< 5							< 5
Chlorodibromomethane	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Chloroethane	2008-08	ug/L	< 4	< 4	< 4								
Chloroethane	2009-03	ug/L	< 4	< 4	< 4								
Chloroethane	2009-07	ug/L	< 4	**6.19**									
Chloroethane	2009-09	ug/L	< 4.00	**4.93**	< 4.00								
Chloroethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00								
Chloroethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00								
Chloroethane	2011-03	ug/L	< 4.00	**4.20**	< 4.00								
Chloroethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00								
Chloroethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00								
Chloroethane	2012-09	ug/L	< 4.00	< 4.00	< 4.00								
Chloroethane	2013-03	ug/L	< 4	**2.41 J**	< 4.00								
Chloroethane	2013-09	ug/L	< 4.00	**1.70 J**	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Chloroethane	2013-11	ug/L					< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Chloroethane	2014-03	ug/L	< 4.00	**1.44 J**	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Chloroethane	2014-06	ug/L					< 4.00	< 4.00	< 4.00	**0.428 J**	< 4.00		
Chloroethane	2014-09	ug/L	< 4	**1.36 J**	< 4		< 4	< 4	< 4	< 4	< 4		
Chloroethane	2015-03	ug/L	< 4.00	< 4.00	< 4		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Chloroethane	2015-06	ug/L											
Chloroethane	2015-09	ug/L	< 4	< 4	< 4								
Chloroethane	2015-10	ug/L				< 4	< 4	< 4		**1.43 J**	< 4		
Chloroethane	2016-03	ug/L	**0.387 J**	**0.748 J**	< 4	< 4	< 4	< 4		**1.55 J**	< 4		
Chloroethane	2016-06	ug/L											
Chloroethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Chloroethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Chloroethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Chloroethane	2017-11	ug/L										< 4	< 4
Chloroethane	2018-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4
Chloroethane	2018-06	ug/L										< 4	< 4
Chloroethane	2018-08	ug/L	< 4	< 4	< 4	< 4		< 4		< 4			
Chloroethane	2018-09	ug/L									< 4	< 4	< 4
Chloroethane	2018-11	ug/L										< 4	< 4
Chloroethane	2019-03	ug/L	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	
Chloroethane	2019-04	ug/L											< 4

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Chloroethane	2019-08	ug/L	< 4	< 4	< 4	**4.79**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2020-03	ug/L		< 4		**3.66 J**	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	2020-04	ug/L	< 4		< 4									
Chloroethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Chloroethane	2021-03	ug/L				**3.22 J**								
Chloroethane	2021-08	ug/L	< 4	< 40	< 4	**2.68 J**	< 4	< 4	< 4	< 4	< 4			< 4
Chloroethane	2022-03	ug/L				**0.928 J**								
Chloroethane	2022-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Chloroethane	2023-03	ug/L				**0.999 J**								
Chloroethane	2023-08	ug/L	< 4	< 4	< 4	**1.35 J**	< 4	< 4	< 4	< 4	< 4			< 4
Chloroethane	2024-03	ug/L				< 4								
Chloroethane	2024-08	ug/L	< 4	< 4	< 4	**1.37 J**	< 4	< 4	< 4	< 4	**0.876 J**			< 4
Chloroform	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Chloroform	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Chloroform	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2012-09	ug/L	< 1.00	< 1.00	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
Chloroform	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2013-11	ug/L												
Chloroform	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroform	2014-06	ug/L												
Chloroform	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
Chloroform	2015-06	ug/L						< 1	< 1					
Chloroform	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Chloroform	2015-10	ug/L			< 1	< 1							< 1	< 1
Chloroform	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2016-06	ug/L					< 1							
Chloroform	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2017-11	ug/L												
Chloroform	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	2018-06	ug/L												
Chloroform	2018-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloroform	2018-09	ug/L							< 3	< 3				
Chloroform	2018-11	ug/L											< 3	
Chloroform	2019-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2019-04	ug/L												
Chloroform	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2020-03	ug/L		< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	2020-04	ug/L	< 3		< 3									
Chloroform	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloroform	2021-03	ug/L				< 3								
Chloroform	2021-08	ug/L	< 3	< 30	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloroform	2022-03	ug/L				< 3								
Chloroform	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloroform	2023-03	ug/L				< 3								
Chloroform	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloroform	2024-03	ug/L				< 3								
Chloroform	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloromethane	2008-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2009-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2009-07	ug/L	< 3	< 3	< 3	< 3		< 3	< 3.00	< 3.00	< 3			
Chloromethane	2009-09	ug/L	< 3.00	< 3	< 3.00	< 15.0		< 3	< 3	< 3	< 3			
Chloromethane	2010-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2010-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2011-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2011-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2012-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2012-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2013-03	ug/L	< 3.00	< 3.00	< 3	< 3	< 3	< 3	< 3	< 3	< 3.00	< 3	< 3	< 3
Chloromethane	2013-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2013-11	ug/L												
Chloromethane	2014-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Chloromethane	2014-06	ug/L												
Chloromethane	2014-09	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2015-03	ug/L	< 3.00	< 3	< 3.00	< 3.00	< 3	< 3	< 3.00	< 3.00	< 3	< 3	< 3.00	< 3.00
Chloromethane	2015-06	ug/L						< 3	< 3					
Chloromethane	2015-09	ug/L	< 3	< 3			< 3	< 3	< 3	< 3	< 3	< 3		
Chloromethane	2015-10	ug/L			< 3	< 3							< 3	< 3
Chloromethane	2016-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2016-06	ug/L					< 3							
Chloromethane	2016-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2017-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2017-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2017-11	ug/L												
Chloromethane	2018-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2018-06	ug/L												
Chloromethane	2018-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloromethane	2018-09	ug/L							< 3	< 3				
Chloromethane	2018-11	ug/L											< 3	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Chloroethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		**0.807 J**	< 4	< 4	< 4
Chloroethane	2020-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4
Chloroethane	2020-04	ug/L											
Chloroethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Chloroethane	2021-03	ug/L	< 4		< 4	< 4							< 4
Chloroethane	2021-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Chloroethane	2022-03	ug/L	< 4		< 4	< 4							< 4
Chloroethane	2022-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Chloroethane	2023-03	ug/L	< 4		< 4	< 4							< 4
Chloroethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Chloroethane	2024-03	ug/L	< 4		< 4	< 4							< 4
Chloroethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Chloroform	2008-08	ug/L	< 1	< 1	< 1								
Chloroform	2009-03	ug/L	< 1	< 1	< 1								
Chloroform	2009-07	ug/L	< 1	< 1									
Chloroform	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Chloroform	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
Chloroform	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
Chloroform	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Chloroform	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
Chloroform	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
Chloroform	2012-09	ug/L	< 1.00	< 1.00	< 2.00								
Chloroform	2013-03	ug/L	< 1	< 1	< 1.00								
Chloroform	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chloroform	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chloroform	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chloroform	2014-06	ug/L					< 1.00	**0.337 J**	< 1.00	< 1.00	< 1.00		
Chloroform	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Chloroform	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Chloroform	2015-06	ug/L											
Chloroform	2015-09	ug/L	< 1	< 1	< 1								
Chloroform	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Chloroform	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Chloroform	2016-06	ug/L											
Chloroform	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Chloroform	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Chloroform	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Chloroform	2017-11	ug/L										< 1	< 1
Chloroform	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Chloroform	2018-06	ug/L										< 3	< 3
Chloroform	2018-08	ug/L	< 3	< 3	< 3	< 3		< 3		< 3			
Chloroform	2018-09	ug/L									< 3	< 3	< 3
Chloroform	2018-11	ug/L										< 3	< 3
Chloroform	2019-03	ug/L	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	
Chloroform	2019-04	ug/L											< 3
Chloroform	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3
Chloroform	2020-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3
Chloroform	2020-04	ug/L											
Chloroform	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloroform	2021-03	ug/L	< 3		< 3	< 3							< 3
Chloroform	2021-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloroform	2022-03	ug/L	< 3		< 3	< 3							< 3
Chloroform	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloroform	2023-03	ug/L	< 3		< 3	< 3							< 3
Chloroform	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloroform	2024-03	ug/L	< 3		< 3	< 3							< 3
Chloroform	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloromethane	2008-08	ug/L	< 3	< 3	< 3								
Chloromethane	2009-03	ug/L	< 3	< 3	< 3								
Chloromethane	2009-07	ug/L	< 3	< 3									
Chloromethane	2009-09	ug/L	< 3.00	< 3.00	< 3.00								
Chloromethane	2010-03	ug/L	< 3.00	< 3.00	< 3.00								
Chloromethane	2010-09	ug/L	< 3.00	< 3.00	< 3.00								
Chloromethane	2011-03	ug/L	< 3.00	< 3.00	< 3.00								
Chloromethane	2011-09	ug/L	< 3.00	< 3.00	< 3.00								
Chloromethane	2012-03	ug/L	< 3.00	< 3.00	< 3.00								
Chloromethane	2012-09	ug/L	< 3.00	< 3.00	< 3.00								
Chloromethane	2013-03	ug/L	< 3	< 3	< 3.00								
Chloromethane	2013-09	ug/L	< 3.00	< 3.00	< 3.00		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2013-11	ug/L					< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2014-03	ug/L	< 3.00	< 3.00	< 3.00		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2014-06	ug/L					< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2014-09	ug/L	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3		
Chloromethane	2015-03	ug/L	< 3.00	< 3.00	< 3		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Chloromethane	2015-06	ug/L											
Chloromethane	2015-09	ug/L	< 3	< 3	< 3								
Chloromethane	2015-10	ug/L				< 3	< 3	< 3		< 3	< 3		
Chloromethane	2016-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3		
Chloromethane	2016-06	ug/L											
Chloromethane	2016-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3		
Chloromethane	2017-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3		
Chloromethane	2017-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3		
Chloromethane	2017-11	ug/L										< 3	< 3
Chloromethane	2018-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3
Chloromethane	2018-06	ug/L										< 3	< 3
Chloromethane	2018-08	ug/L	< 3	< 3	< 3	< 3		< 3		< 3			
Chloromethane	2018-09	ug/L									< 3	< 3	< 3
Chloromethane	2018-11	ug/L										< 3	< 3

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Chloromethane	2019-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2019-04	ug/L												
Chloromethane	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2020-03	ug/L		< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloromethane	2020-04	ug/L	< 3		< 3									
Chloromethane	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloromethane	2021-03	ug/L				< 3								
Chloromethane	2021-08	ug/L	< 3	< 30	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloromethane	2022-03	ug/L				< 3								
Chloromethane	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloromethane	2023-03	ug/L				< 3								
Chloromethane	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloromethane	2024-03	ug/L				< 3								
Chloromethane	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Chloroprene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroprene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroprene	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Chloroprene	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Chloroprene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Chloroprene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
Chloroprene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
Chloroprene	2012-09	ug/L		< 4.00										
Chloroprene	2015-06	ug/L						< 1	< 1					
Chloroprene	2015-09	ug/L	< 1	< 1				< 1	< 1	< 1	< 1			
Chloroprene	2015-10	ug/L			< 1	< 1								
Chloroprene	2016-03	ug/L												
Chloroprene	2016-06	ug/L					< 1							
Chloroprene	2016-08	ug/L					< 1							
Chloroprene	2018-11	ug/L											< 1	
Chloroprene	2019-03	ug/L											< 1	
Chloroprene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			
Chromium	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chromium	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chromium	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chromium	2009-09	mg/L	< 0.0200	< 0.02		< 0.0200		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		
Chromium	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	**0.0518**	< 0.0200
Chromium	2013-03	mg/L	< 0.0200	< 0.0400	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	**0.00206 J**	< 0.02	< 0.02
Chromium	2013-09	mg/L	**0.00265 J**	**0.00209 J**	**0.00183 J**	**0.00361 J**	**0.00582 J**	**0.00811 J**	**0.00721 J**	**0.00379 J**	**0.00359 J**	**0.00268 J**	**0.00216 J**	**0.00436 J**
Chromium	2013-11	mg/L												
Chromium	2014-03	mg/L	**0.00249 J**	**0.00424 J**	**0.00228 J**	**0.00273 J**	**0.00225 J**	**0.00382 J**	**0.00362 J**	**0.00599 J**	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Chromium	2014-06	mg/L												
Chromium	2014-09	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2015-03	mg/L	< 0.00500	**0.00326 J**	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.00500	**0.00134 J**	< 0.005	< 0.005	< 0.00500	< 0.00500
Chromium	2015-06	mg/L						< 0.005	< 0.005					
Chromium	2015-09	mg/L	< 0.005	**0.00232 J**			< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		
Chromium	2015-10	mg/L			< 0.005	< 0.005							< 0.005	**0.00219 J**
Chromium	2016-03	mg/L	< 0.005	**0.00294 J**	< 0.005	**0.000478 J**	< 0.005	< 0.005	< 0.005	**0.00128 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2016-06	mg/L					< 0.005							
Chromium	2016-08	mg/L	**0.000368 J**	**0.00228 J**	< 0.005	**0.00045 J**	< 0.005	< 0.005	< 0.005	**0.00118 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2017-03	mg/L	< 0.005	**0.00201 J**	< 0.005	< 0.005	< 0.005	**0.00233 J**	< 0.005	**0.00141 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2017-08	mg/L	< 0.005	**0.00196 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00129 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2017-11	mg/L												
Chromium	2018-03	mg/L	< 0.005	**0.00289 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00135 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2018-06	mg/L												
Chromium	2018-08	mg/L	< 0.005	**0.00244 J**	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2018-09	mg/L							< 0.005	**0.00155 J**				
Chromium	2018-11	mg/L											< 0.005	
Chromium	2019-03	mg/L	< 0.005	**0.00103 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00111 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2019-04	mg/L												
Chromium	2019-08	mg/L	< 0.005	**0.00635**	< 0.005	**0.00262 J**	< 0.005	< 0.005	< 0.005	**0.00128 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2020-03	mg/L		**0.00279 J**		< 0.005	< 0.02	< 0.005	< 0.02	**0.00148 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2020-04	mg/L	< 0.005		< 0.005									
Chromium	2020-08	mg/L	< 0.005	**0.00186 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00165 J**	< 0.005			< 0.005
Chromium	2021-03	mg/L				< 0.005								
Chromium	2021-08	mg/L	< 0.005	**0.00368 J**	< 0.005	**0.007**	< 0.005	< 0.005	< 0.005	**0.00179 J**	< 0.005			< 0.005
Chromium	2022-03	mg/L				< 0.005								
Chromium	2022-08	mg/L	< 0.005	**0.00195 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00128 J**	< 0.005			< 0.005
Chromium	2023-03	mg/L				< 0.005								
Chromium	2023-08	mg/L	< 0.005	**0.00236 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.002 J**	< 0.005			< 0.005
Chromium	2024-03	mg/L				< 0.005								
Chromium	2024-08	mg/L	< 0.005	**0.00185 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Chrysene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Chrysene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Chrysene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chrysene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Chrysene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Chrysene	2015-06	ug/L						< 10.5	< 11.1					
Chrysene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Chrysene	2015-10	ug/L			< 10.3	< 10.5								
Chrysene	2016-03	ug/L												
Chrysene	2016-06	ug/L					< 11.4							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Chloromethane	2019-03	ug/L	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	
Chloromethane	2019-04	ug/L											< 3
Chloromethane	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3
Chloromethane	2020-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3
Chloromethane	2020-04	ug/L											
Chloromethane	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloromethane	2021-03	ug/L	< 3		< 3	< 3							< 3
Chloromethane	2021-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloromethane	2022-03	ug/L	< 3		< 3	< 3							< 3
Chloromethane	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloromethane	2023-03	ug/L	< 3		< 3	< 3							< 3
Chloromethane	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloromethane	2024-03	ug/L	< 3		< 3	< 3							< 3
Chloromethane	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Chloroprene	2008-08	ug/L	< 1	< 1	< 1								
Chloroprene	2009-03	ug/L	< 1	< 1	< 1								
Chloroprene	2009-07	ug/L	< 1	< 1									
Chloroprene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Chloroprene	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
Chloroprene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
Chloroprene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Chloroprene	2012-09	ug/L											
Chloroprene	2015-06	ug/L											
Chloroprene	2015-09	ug/L	< 1	< 1	< 1								
Chloroprene	2015-10	ug/L				< 1							
Chloroprene	2016-03	ug/L			< 1	< 1							
Chloroprene	2016-06	ug/L											
Chloroprene	2016-08	ug/L			< 1	< 1							
Chloroprene	2018-11	ug/L											
Chloroprene	2019-03	ug/L											
Chloroprene	2020-08	ug/L	< 1	< 1	< 1	< 1							
Chromium	2008-08	mg/L	< 0.05	< 0.05	< 0.05								
Chromium	2009-03	mg/L	< 0.05	< 0.05	< 0.05								
Chromium	2009-07	mg/L	< 0.05	< 0.05	< 0.05								
Chromium	2009-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Chromium	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Chromium	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Chromium	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Chromium	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Chromium	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Chromium	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Chromium	2013-03	mg/L	< 0.02	< 0.02	< 0.0200								
Chromium	2013-09	mg/L	**0.00188 J**	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	**0.00353 J**	< 0.0200	< 0.0200	< 0.0200		
Chromium	2013-11	mg/L				**~~0.00387 J~~**	**0.00160 J**	< 0.0200	< 0.0200	**0.00365 J**	< 0.0200		
Chromium	2014-03	mg/L	< 0.0200	**0.00199 J**	< 0.0200	**~~0.00383 J~~**	< 0.0200	< 0.0200	< 0.0200	**0.00299 J**	< 0.0200		
Chromium	2014-06	mg/L				~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Chromium	2014-09	mg/L	< 0.005	< 0.005	< 0.005	~~< 0.005~~	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		
Chromium	2015-03	mg/L	< 0.00500	< 0.00500	< 0.005	**~~0.00149 J~~**	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500		
Chromium	2015-06	mg/L											
Chromium	2015-09	mg/L	< 0.005	< 0.005	< 0.005								
Chromium	2015-10	mg/L				< 0.005	< 0.005	< 0.005		< 0.005	< 0.005		
Chromium	2016-03	mg/L	< 0.005	< 0.005	< 0.005	**0.000468 J**	< 0.005	< 0.005		< 0.005	< 0.005		
Chromium	2016-06	mg/L											
Chromium	2016-08	mg/L	< 0.005	**0.000457 J**	< 0.005	**0.000654 J**	< 0.005	< 0.005		< 0.005	**0.000885 J**		
Chromium	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005		
Chromium	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005		
Chromium	2017-11	mg/L										< 0.005	< 0.005
Chromium	2018-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2018-06	mg/L										< 0.005	< 0.005
Chromium	2018-08	mg/L	< 0.005	**0.003 J**	< 0.005	< 0.005		< 0.005		< 0.005			
Chromium	2018-09	mg/L									< 0.005	< 0.005	< 0.005
Chromium	2018-11	mg/L										< 0.005	< 0.005
Chromium	2019-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Chromium	2019-04	mg/L											< 0.005
Chromium	2019-08	mg/L	**0.00306 J**	**0.0102 J**	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	**0.00418 J**	< 0.005
Chromium	2020-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2020-04	mg/L											
Chromium	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2021-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Chromium	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			**0.00118 J**	< 0.005	< 0.005	< 0.005
Chromium	2022-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Chromium	2022-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2023-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Chromium	2023-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Chromium	2024-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Chromium	2024-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Chrysene	2008-08	ug/L	< 10	< 10	< 10								
Chrysene	2009-03	ug/L	< 10	< 10	< 10								
Chrysene	2009-07	ug/L	< 10	< 10	< 10.0								
Chrysene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Chrysene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Chrysene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Chrysene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Chrysene	2015-06	ug/L											
Chrysene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Chrysene	2015-10	ug/L				< 10.6							
Chrysene	2016-03	ug/L			< 10	< 10							
Chrysene	2016-06	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Chrysene	2016-08	ug/L					< 11							
Chrysene	2018-11	ug/L											< 11.6	
Chrysene	2019-03	ug/L											< 12.2	
Chrysene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
cis-1,2-Dichloroethene	2008-08	ug/L	< 1	**2.65**	< 1	**17.5**	< 1	< 1	< 1	**1.05**	**4.6**	< 1	< 1	< 1
cis-1,2-Dichloroethene	2009-03	ug/L	< 1	**2.21**	< 1	**15.2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	2009-07	ug/L	< 1	**1.68**	< 1	**9.92**		< 1	< 1.00	< 1.00	< 1			
cis-1,2-Dichloroethene	2009-09	ug/L	< 1.00	**2.48**	< 1.00	**10.5**		< 1	< 1	**1.56**	< 1			
cis-1,2-Dichloroethene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	**5.66**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 2.00
cis-1,2-Dichloroethene	2010-09	ug/L	< 1.00	**2.07**	< 1.00	**5.66**	< 1.00	< 1.00	< 1.00	**1.11**	< 1.00	< 1.00	< 1.00	< 1.00
cis-1,2-Dichloroethene	2011-03	ug/L	< 1.00	**1.29**	< 1.00	**6.55**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
cis-1,2-Dichloroethene	2011-09	ug/L	< 1.00	**2.40**	< 1.00	**4.11**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
cis-1,2-Dichloroethene	2012-03	ug/L	< 1.00	**1.61**	< 1.00	**5.69**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
cis-1,2-Dichloroethene	2012-09	ug/L	< 1.00	**1.60**	< 1.00	**5.50**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
cis-1,2-Dichloroethene	2013-03	ug/L	< 1.00	**0.419 J**	< 1	**5.94**	< 1	< 1	**0.133 J**	< 1	< 1.00	< 1	< 1	< 1
cis-1,2-Dichloroethene	2013-09	ug/L	< 1.00	**2.29**	< 1.00	**3.09**	< 1.00	< 1.00	**0.171 J**	**0.616 J**	**0.496 J**	< 1.00	< 1.00	< 1.00
cis-1,2-Dichloroethene	2013-11	ug/L												
cis-1,2-Dichloroethene	2014-03	ug/L	< 1.00	**3.11**	< 1.00	**1.07**	< 1.00	< 1.00	< 1.00	**0.402 J**	< 1.00	< 1.00	< 1.00	< 1.00
cis-1,2-Dichloroethene	2014-06	ug/L												
cis-1,2-Dichloroethene	2014-09	ug/L	< 1	**2.11**	< 1	**1.86**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	2015-03	ug/L	< 1.00	< 1	< 1.00	**1.45**	< 1	< 1	**0.156 J**	**0.418 J**	**0.478 J**	< 1	< 1.00	< 1.00
cis-1,2-Dichloroethene	2015-06	ug/L						**0.191 J**	**0.187 J**					
cis-1,2-Dichloroethene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	**0.63 J**	< 1	< 1		
cis-1,2-Dichloroethene	2015-10	ug/L			< 1	**0.973 J**							< 1	< 1
cis-1,2-Dichloroethene	2016-03	ug/L	< 1	< 1	< 1	**0.578 J**	< 1	**0.286 J**	< 1	**0.512 J**	**1.27**	< 1	< 1	< 1
cis-1,2-Dichloroethene	2016-06	ug/L					< 1							
cis-1,2-Dichloroethene	2016-08	ug/L	< 1	< 1	< 1	**0.345 J**	< 1	< 1	< 1	**0.587 J**	**0.9 J**	< 1	< 1	< 1
cis-1,2-Dichloroethene	2017-03	ug/L	< 1	< 1	< 1	**0.442 J**	< 1	< 1	< 1	**0.502 J**	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	2017-08	ug/L	< 1	< 1	< 1	**0.607 J**	< 1	< 1	< 1	**0.522 J**	**0.577 J**	< 1	< 1	< 1
cis-1,2-Dichloroethene	2017-11	ug/L												
cis-1,2-Dichloroethene	2018-03	ug/L	< 1	< 1	< 1	**1.21**	< 1	< 1	< 1	**0.272 J**	**0.743 J**	< 1	< 1	< 1
cis-1,2-Dichloroethene	2018-06	ug/L												
cis-1,2-Dichloroethene	2018-08	ug/L	< 1	< 1	< 1	**1.08**	< 1	< 1			**0.489 J**	< 1	< 1	< 1
cis-1,2-Dichloroethene	2018-09	ug/L							< 1	**0.391 J**				
cis-1,2-Dichloroethene	2018-11	ug/L											< 1	
cis-1,2-Dichloroethene	2019-03	ug/L	< 1	**0.617 J**	< 1	< 1	< 1	< 1	**0.417 J**	**0.681 J**	**0.402 J**	< 1	**2.77**	< 1
cis-1,2-Dichloroethene	2019-04	ug/L												
cis-1,2-Dichloroethene	2019-08	ug/L	< 1	< 1	< 1	**0.394 J**	< 1	< 1	< 1	**0.977 J**	**0.7 J**	< 1	< 1	< 1
cis-1,2-Dichloroethene	2020-03	ug/L		< 1		**0.992 J**	< 1	< 1	< 1	**1.14**	**1.38**	< 1	< 1	< 1
cis-1,2-Dichloroethene	2020-04	ug/L	< 1		< 1									
cis-1,2-Dichloroethene	2020-08	ug/L	< 1	< 1	< 1	**0.876 J**	< 1	< 1	< 1	**0.756 J**	**0.845 J**			< 1
cis-1,2-Dichloroethene	2021-03	ug/L				< 1								
cis-1,2-Dichloroethene	2021-08	ug/L	< 1	< 10	< 1	**0.46 J**	< 1	< 1	< 1	**0.446 J**	**1.13**			< 1
cis-1,2-Dichloroethene	2022-03	ug/L				**0.996 J**								
cis-1,2-Dichloroethene	2022-08	ug/L	< 1	< 1	< 1	**0.937 J**	< 1	< 1	< 1	**0.5 J**	**0.719 J**			< 1
cis-1,2-Dichloroethene	2023-03	ug/L				**1.15**								
cis-1,2-Dichloroethene	2023-08	ug/L	< 1	< 1	< 1	**0.837 J**	< 1	< 1	< 1	< 1	**0.353 J**			< 1
cis-1,2-Dichloroethene	2024-03	ug/L				< 1								
cis-1,2-Dichloroethene	2024-08	ug/L	< 1	< 1	< 1	**0.81 J**	< 1	< 1	**0.228 J**	**0.757 J**	**1.1**			< 1
cis-1,3-Dichloropropene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2009-07	ug/L	< 5	< 5	< 5	< 5		< 5	< 5.00	< 5.00	< 5			
cis-1,3-Dichloropropene	2009-09	ug/L	< 5.00	< 5	< 5.00	< 25.0		< 5	< 5	< 5	< 5			
cis-1,3-Dichloropropene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00	< 5.00	< 5.00	< 10.0	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2013-03	ug/L	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5	< 5	< 5
cis-1,3-Dichloropropene	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2013-11	ug/L												
cis-1,3-Dichloropropene	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	2014-06	ug/L												
cis-1,3-Dichloropropene	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2015-03	ug/L	< 5.00	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00
cis-1,3-Dichloropropene	2015-06	ug/L						< 5	< 5					
cis-1,3-Dichloropropene	2015-09	ug/L	< 5	< 5			< 5	< 5	< 5	< 5	< 5	< 5		
cis-1,3-Dichloropropene	2015-10	ug/L			< 5	< 5							< 5	< 5
cis-1,3-Dichloropropene	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2016-06	ug/L					< 5							
cis-1,3-Dichloropropene	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2017-11	ug/L												
cis-1,3-Dichloropropene	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2018-06	ug/L												
cis-1,3-Dichloropropene	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2018-09	ug/L							< 5	< 5				
cis-1,3-Dichloropropene	2018-11	ug/L											< 5	
cis-1,3-Dichloropropene	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2019-04	ug/L												
cis-1,3-Dichloropropene	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2020-03	ug/L		< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2020-04	ug/L	< 5		< 5									
cis-1,3-Dichloropropene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
cis-1,3-Dichloropropene	2021-03	ug/L				< 5								
cis-1,3-Dichloropropene	2021-08	ug/L	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Chrysene	2016-08	ug/L			< 11.1	< 11.5							
Chrysene	2018-11	ug/L											
Chrysene	2019-03	ug/L											
Chrysene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
cis-1,2-Dichloroethene	2008-08	ug/L	< 1	**1.84**	< 1								
cis-1,2-Dichloroethene	2009-03	ug/L	< 1	**1.19**	< 1								
cis-1,2-Dichloroethene	2009-07	ug/L	< 1	< 1									
cis-1,2-Dichloroethene	2009-09	ug/L	< 1.00	**1.34**	< 1.00								
cis-1,2-Dichloroethene	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
cis-1,2-Dichloroethene	2013-03	ug/L	< 1	**0.347 J**	< 1.00								
cis-1,2-Dichloroethene	2013-09	ug/L	**0.158 J**	**0.375 J**	< 1.00		< 1.00	< 1.00	< 1.00	**0.210 J**	< 1.00		
cis-1,2-Dichloroethene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
cis-1,2-Dichloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
cis-1,2-Dichloroethene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	**0.208 J**	< 1.00		
cis-1,2-Dichloroethene	2014-09	ug/L	< 1	**0.344 J**	< 1		< 1	< 1	< 1	**0.853 J**	< 1		
cis-1,2-Dichloroethene	2015-03	ug/L	< 1.00	**0.210 J**	< 1		< 1.00	< 1.00	< 1.00	**0.454 J**	< 1.00		
cis-1,2-Dichloroethene	2015-06	ug/L											
cis-1,2-Dichloroethene	2015-09	ug/L	< 1	< 1	< 1								
cis-1,2-Dichloroethene	2015-10	ug/L				< 1	< 1	< 1		**1.34**	< 1		
cis-1,2-Dichloroethene	2016-03	ug/L	**0.135 J**	**0.245 J**	< 1	< 1	< 1	< 1		**0.657 J**	< 1		
cis-1,2-Dichloroethene	2016-06	ug/L											
cis-1,2-Dichloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**0.429 J**	< 1		
cis-1,2-Dichloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**0.349 J**	< 1		
cis-1,2-Dichloroethene	2017-08	ug/L	< 1	**0.245 J**	< 1	< 1	< 1	< 1		**0.42 J**	< 1		
cis-1,2-Dichloroethene	2017-11	ug/L										< 1	**0.582 J**
cis-1,2-Dichloroethene	2018-03	ug/L	**0.14 J**	**0.229 J**	< 1	< 1	< 1	< 1		**0.475 J**	< 1	< 1	**0.735 J**
cis-1,2-Dichloroethene	2018-06	ug/L										< 1	**0.706 J**
cis-1,2-Dichloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		**0.279 J**			
cis-1,2-Dichloroethene	2018-09	ug/L									< 1	< 1	**0.612 J**
cis-1,2-Dichloroethene	2018-11	ug/L										< 1	**0.506 J**
cis-1,2-Dichloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	**0.726 J**	< 1	< 1	
cis-1,2-Dichloroethene	2019-04	ug/L											**0.464 J**
cis-1,2-Dichloroethene	2019-08	ug/L	< 1	**0.254 J**	< 1	< 1	< 1	< 1		**1.56**	< 1	< 1	**0.555 J**
cis-1,2-Dichloroethene	2020-03	ug/L	< 1	**0.226 J**	< 1	< 1	< 1	< 1		**0.649 J**	< 1	< 1	**0.596 J**
cis-1,2-Dichloroethene	2020-04	ug/L											
cis-1,2-Dichloroethene	2020-08	ug/L	< 1	**0.266 J**	< 1	< 1	< 1			**1.38**	< 1	< 1	**0.537 J**
cis-1,2-Dichloroethene	2021-03	ug/L	< 1		< 1	< 1							**0.566 J**
cis-1,2-Dichloroethene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	**0.466 J**
cis-1,2-Dichloroethene	2022-03	ug/L	< 1		< 1	< 1							**0.462 J**
cis-1,2-Dichloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			**0.428 J**	< 1	< 1	**0.4 J**
cis-1,2-Dichloroethene	2023-03	ug/L	< 1		< 1	< 1							**0.423 J**
cis-1,2-Dichloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	2024-03	ug/L	< 1		< 1	< 1							< 1
cis-1,2-Dichloroethene	2024-08	ug/L	**0.232 J**	< 1	< 1	< 1	< 1			**0.815 J**	< 1	< 1	**0.403 J**
cis-1,3-Dichloropropene	2008-08	ug/L	< 5	< 5	< 5								
cis-1,3-Dichloropropene	2009-03	ug/L	< 5	< 5	< 5								
cis-1,3-Dichloropropene	2009-07	ug/L	< 5	< 5									
cis-1,3-Dichloropropene	2009-09	ug/L	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2010-03	ug/L	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
cis-1,3-Dichloropropene	2011-03	ug/L	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2011-09	ug/L	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2012-03	ug/L	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2012-09	ug/L	< 5.00	< 5.00	< 5.00								
cis-1,3-Dichloropropene	2013-03	ug/L	< 5	< 5	< 5.00								
cis-1,3-Dichloropropene	2013-09	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2013-11	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2014-03	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2014-06	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2014-09	ug/L	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
cis-1,3-Dichloropropene	2015-03	ug/L	< 5.00	< 5.00	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
cis-1,3-Dichloropropene	2015-06	ug/L											
cis-1,3-Dichloropropene	2015-09	ug/L	< 5	< 5	< 5								
cis-1,3-Dichloropropene	2015-10	ug/L				< 5	< 5	< 5		< 5	< 5		
cis-1,3-Dichloropropene	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
cis-1,3-Dichloropropene	2016-06	ug/L											
cis-1,3-Dichloropropene	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
cis-1,3-Dichloropropene	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
cis-1,3-Dichloropropene	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
cis-1,3-Dichloropropene	2017-11	ug/L										< 5	< 5
cis-1,3-Dichloropropene	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2018-06	ug/L										< 5	< 5
cis-1,3-Dichloropropene	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5		< 5			
cis-1,3-Dichloropropene	2018-09	ug/L									< 5	< 5	< 5
cis-1,3-Dichloropropene	2018-11	ug/L										< 5	< 5
cis-1,3-Dichloropropene	2019-03	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	
cis-1,3-Dichloropropene	2019-04	ug/L											< 5
cis-1,3-Dichloropropene	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2020-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2020-04	ug/L											
cis-1,3-Dichloropropene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2021-03	ug/L	< 5		< 5	< 5							< 5
cis-1,3-Dichloropropene	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
cis-1,3-Dichloropropene	2022-03	ug/L				< 5								
cis-1,3-Dichloropropene	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
cis-1,3-Dichloropropene	2023-03	ug/L				< 5								
cis-1,3-Dichloropropene	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
cis-1,3-Dichloropropene	2024-03	ug/L				< 5								
cis-1,3-Dichloropropene	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Cobalt	2008-08	mg/L	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	2009-03	mg/L	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	2009-07	mg/L	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~		< 0.05	< 0.05	~~< 0.05~~	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	2009-09	mg/L	~~< 0.0200~~	~~< 0.02~~		~~< 0.0200~~		< 0.02	< 0.02	~~< 0.02~~	< 0.02	< 0.02		
Cobalt	2010-03	mg/L	~~< 0.0200~~	~~< 0.0200~~	~~< 0.0200~~	~~**0.0242**~~	~~< 0.0200~~	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Cobalt	2010-09	mg/L	**0.00636 J**	~~**0.00239 J**~~	~~< 0.0200~~	~~**0.00934 J**~~	~~< 0.0200~~	**0.00160 J**	< 0.0200	~~**0.00541 J**~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Cobalt	2011-03	mg/L	**0.00834 J**	~~< 0.0200~~	~~< 0.0200~~	~~**0.00700 J**~~	~~< 0.0200~~	< 0.0200	< 0.0200	~~**0.00193 J**~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Cobalt	2011-09	mg/L	**0.00615 J**	~~**0.00165 J**~~	~~< 0.0200~~	~~**0.00456 J**~~	~~< 0.0200~~	< 0.0200	< 0.0200	~~**0.00192 J**~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Cobalt	2012-03	mg/L	**0.00948 J**	~~< 0.0200~~	~~< 0.0200~~	~~**0.00570 J**~~	~~< 0.0200~~	< 0.0200	< 0.0200	~~**0.00301 J**~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Cobalt	2012-09	mg/L	**0.00999 J**	~~**0.00208 J**~~	~~< 0.0200~~	~~**0.00256 J**~~	~~< 0.0200~~	< 0.0200	< 0.0200	~~**0.00324 J**~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Cobalt	2013-03	mg/L	**0.00882 J**	~~**0.00490 J**~~	~~< 0.02~~	~~**0.00879 J**~~	~~< 0.02~~	< 0.02	**0.00201 J**	~~**0.00425 J**~~	< 0.0200	< 0.02	< 0.02	< 0.02
Cobalt	2013-09	mg/L	**0.00740**	~~**0.00150 J**~~	~~< 0.00700~~	~~< 0.00700~~	~~< 0.00700~~	< 0.00700	< 0.00700	~~< 0.00700~~	< 0.00700	< 0.00700	< 0.00700	< 0.00700
Cobalt	2013-11	mg/L												
Cobalt	2014-03	mg/L	**0.00827**	~~< 0.0140~~	~~< 0.00700~~	~~**0.00247 J**~~	~~< 0.00700~~	< 0.00700	< 0.00700	~~**0.00502 J**~~	< 0.00700	< 0.00700	< 0.00700	< 0.00700
Cobalt	2014-06	mg/L												
Cobalt	2014-09	mg/L	**0.0079**	**0.00163**	**0.000372 J**	**0.00289**	**0.000574**	< 0.0005	**0.00054**	**0.00338**	< 0.0005	**0.000124 J**	**0.000321 J**	< 0.0005
Cobalt	2015-03	mg/L	**0.00881**	**0.0058**	**0.000388 J**	**0.00261**	**0.00125**	< 0.0005	**0.000582**	**0.00272**	< 0.0005	**0.000182 J**	**0.000895**	< 0.000500
Cobalt	2015-06	mg/L						< 0.0005	**0.000724**					
Cobalt	2015-09	mg/L	**0.00912**	**0.00411**			**0.00247**	< 0.0005	**0.000441 J**	**0.00246**	< 0.0005	**0.000136 J**		
Cobalt	2015-10	mg/L			**0.000721**	**0.00108**							< 0.0005	< 0.0005
Cobalt	2016-03	mg/L	**0.00985**	**0.00574**	**0.00078**	**0.00123**	**0.00215**	< 0.0005	**0.000494 J**	**0.00345**	< 0.0005	**0.000135 J**	**0.000905**	< 0.0005
Cobalt	2016-06	mg/L					**0.00197**							
Cobalt	2016-08	mg/L	**0.00924**	**0.00422**	**0.000632**	**0.00215**	**0.000956**	**0.000028 J**	**0.000405 J**	**0.00246**	< 0.0005	**0.000145 J**	**0.000284 J**	< 0.0005
Cobalt	2017-03	mg/L	**0.00942**	**0.00373**	**0.000875**	**0.00148**	**0.00155**	**0.000052 J**	**0.00052**	**0.00327**	< 0.0005	**0.000182 J**	**0.000999**	< 0.0005
Cobalt	2017-08	mg/L	**0.00788**	**0.00397**	**0.000743**	**0.00103**	**0.00129**	< 0.0005	**0.00025 J**	**0.0028**	< 0.0005	**0.000136 J**	**0.000803**	< 0.0005
Cobalt	2017-11	mg/L												
Cobalt	2018-03	mg/L	**0.00981**	**0.00602**	**0.000566**	**0.000782**	**0.00139**	< 0.0005	**0.000426 J**	**0.00271**	< 0.0005	**0.000143 J**	**0.000501**	< 0.0005
Cobalt	2018-06	mg/L												
Cobalt	2018-08	mg/L	**0.00918**	**0.00493**	**0.000877**	**0.000614**	**0.00213**	< 0.0005			< 0.0005	**0.000127 J**	**0.001**	**0.000068 J**
Cobalt	2018-09	mg/L							**0.000257 J**	**0.00246**				
Cobalt	2018-11	mg/L											**0.0007**	
Cobalt	2019-03	mg/L	**0.0118**	**0.00234**	**0.00077**	**0.00243**	**0.00368**	< 0.0005	**0.000533**	**0.0034**	< 0.0005	**0.000161 J**	**0.000504**	< 0.0005
Cobalt	2019-04	mg/L												
Cobalt	2019-08	mg/L	**0.00792**	**0.00431**	**0.000792**	**0.00114**	**0.00138**	< 0.0005	**0.00016 J**	**0.00306**	< 0.0005	**0.000131 J**	**0.000497 J**	< 0.0005
Cobalt	2020-03	mg/L		**0.00572**		**0.00102**	**0.00156 J**	< 0.0005	< 0.002	**0.00322**	< 0.0005	**0.000108 J**	**0.000347 J**	< 0.0005
Cobalt	2020-04	mg/L	**0.00876**		**0.000802**									
Cobalt	2020-08	mg/L	**0.009**	**0.00411**	**0.000896**	**0.000785**	**0.00243**	< 0.0005	**0.000168 J**	**0.00383**	< 0.0005			< 0.0005
Cobalt	2021-03	mg/L				**0.000849**								
Cobalt	2021-08	mg/L	**0.00852**	**0.00741**	**0.000933**	**0.00111**	**0.00209**	**0.000221 J**	**0.000206 J**	**0.00328**	< 0.0005			< 0.0005
Cobalt	2022-03	mg/L				**0.00111**								
Cobalt	2022-08	mg/L	**0.00919**	**0.00401**	**0.000956**	**0.000601**	**0.00372**	**0.000214 J**	**0.000243 J**	**0.00272**	< 0.0005			< 0.0005
Cobalt	2023-03	mg/L				**0.000698**								
Cobalt	2023-08	mg/L	**0.01**	**0.00489**	**0.000822**	**0.000874**	**0.0032**	< 0.0005	< 0.0005	**0.00338**	**0.000175 J**			< 0.0005
Cobalt	2024-03	mg/L				**0.00126**								
Cobalt	2024-08	mg/L	**0.0104**	**0.00408**	**0.00097**	**0.000543**	**0.00515**	< 0.0005	< 0.0005	**0.00254**	< 0.0005			< 0.0005
Copper	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	2009-03	mg/L	**0.055**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	2009-07	mg/L	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	2009-09	mg/L	< 0.0200	< 0.02		< 0.0200		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		
Copper	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2011-09	mg/L	**0.0244**	< 0.0200	< 0.0200	< 0.0200	**0.0301**	**0.0345**	**0.0325**	**0.0289**	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2013-03	mg/L	**0.00182 J**	< 0.0400	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	**0.00151 J**	< 0.02 J	< 0.02
Copper	2013-09	mg/L	< 0.0200 J	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2013-11	mg/L												
Copper	2014-03	mg/L	**0.00465 J**	< 0.0400	< 0.0200	**0.00166 J**	< 0.0200	< 0.0200	< 0.0200	< 0.0400	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Copper	2014-06	mg/L												
Copper	2014-09	mg/L	**0.00371**	< 0.002	< 0.002	**0.00051 J**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Copper	2015-03	mg/L	**0.00321**	< 0.002	< 0.00200	< 0.00200 J	< 0.002	< 0.002	< 0.00200	< 0.00200	< 0.002	< 0.002	< 0.00200	< 0.00200
Copper	2015-06	mg/L						< 0.002	< 0.002					
Copper	2015-09	mg/L	**0.00267**	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	**0.00104 J**		
Copper	2015-10	mg/L			< 0.002 J	< 0.002							< 0.002	< 0.002
Copper	2016-03	mg/L	**0.00294 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2016-06	mg/L					< 0.005							
Copper	2016-08	mg/L	**0.00759**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2017-03	mg/L	**0.00359 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2017-11	mg/L												
Copper	2018-03	mg/L	**0.00299 J**	< 0.005	< 0.005	**0.00417 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2018-06	mg/L												
Copper	2018-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00298 J**	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Copper	2018-09	mg/L							< 0.005	< 0.005				
Copper	2018-11	mg/L											< 0.005	
Copper	2019-03	mg/L	**0.00354 J**	< 0.005	< 0.005	< 0.005	**0.00614**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2019-04	mg/L												
Copper	2019-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2020-03	mg/L		< 0.005		< 0.005	< 0.02	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	2020-04	mg/L	< 0.005		< 0.005									
Copper	2020-08	mg/L	**0.00177 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
cis-1,3-Dichloropropene	2022-03	ug/L	< 5		< 5	< 5							< 5
cis-1,3-Dichloropropene	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2023-03	ug/L	< 5		< 5	< 5							< 5
cis-1,3-Dichloropropene	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	2024-03	ug/L	< 5		< 5	< 5							< 5
cis-1,3-Dichloropropene	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Cobalt	2008-08	mg/L	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~								
Cobalt	2009-03	mg/L	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~								
Cobalt	2009-07	mg/L	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~								
Cobalt	2009-09	mg/L	~~< 0.0200~~	~~< 0.0200~~	~~< 0.0200~~								
Cobalt	2010-03	mg/L	~~< 0.0200~~	~~< 0.0200~~	~~< 0.0200~~								
Cobalt	2010-09	mg/L	~~< 0.0200~~	~~**0.00172 J**~~	~~< 0.0200~~								
Cobalt	2011-03	mg/L	~~< 0.0200~~	~~< 0.0200~~	~~< 0.0200~~								
Cobalt	2011-09	mg/L	~~< 0.0200~~	~~< 0.0200~~	~~< 0.0200~~								
Cobalt	2012-03	mg/L	~~< 0.0200~~	~~< 0.0200~~	~~< 0.0200~~								
Cobalt	2012-09	mg/L	~~**0.00298 J**~~	~~< 0.0200~~	~~< 0.0200~~								
Cobalt	2013-03	mg/L	~~< 0.02~~	~~**0.00274 J**~~	~~< 0.0200~~								
Cobalt	2013-09	mg/L	~~< 0.00700~~	~~< 0.00700~~	~~< 0.00700~~	~~< 0.00700~~	~~< 0.00700~~	< 0.00700	< 0.00700	~~< 0.00700~~	~~< 0.00700~~		
Cobalt	2013-11	mg/L				~~**0.0127**~~	~~< 0.00700~~	< 0.00700	**0.00324 J**	~~**0.00209 J**~~	~~**0.00155 J**~~		
Cobalt	2014-03	mg/L	~~< 0.00700~~	~~**0.00132 J**~~	~~< 0.00700~~	~~**0.00230 J**~~	~~< 0.00700~~	< 0.00700	**0.00180 J**	~~< 0.00700~~	~~< 0.00700~~		
Cobalt	2014-06	mg/L				~~< 0.00700~~	~~< 0.00700~~	< 0.00700	< 0.00700	~~< 0.00700~~	~~< 0.00700~~		
Cobalt	2014-09	mg/L	**0.000997**	**0.0015**	**0.000203 J**	~~**0.00126**~~	**0.000583**	**0.000119 J**	**0.00121**	**0.00224**	**0.00191**		
Cobalt	2015-03	mg/L	**0.00114**	**0.00136**	**0.000107 J**	~~**0.000396 J**~~	**0.000805**	**0.000505**	**0.00137**	**0.00233**	**0.00115**		
Cobalt	2015-06	mg/L											
Cobalt	2015-09	mg/L	**0.00127**	**0.00143**	**0.000338 J**								
Cobalt	2015-10	mg/L				**0.000363 J**	**0.000671**	**0.000172 J**		**0.00249**	**0.00104**		
Cobalt	2016-03	mg/L	**0.00122**	**0.00117**	**0.000226 J**	**0.000359 J**	**0.000672**	**0.000382 J**		**0.00227**	**0.000954**		
Cobalt	2016-06	mg/L											
Cobalt	2016-08	mg/L	**0.00115**	**0.00128**	**0.000206 J**	**0.000373 J**	**0.000962**	**0.000375 J**		**0.00224**	**0.000938**		
Cobalt	2017-03	mg/L	**0.00112**	**0.00129**	**0.000116 J**	**0.000948**	**0.000827**	**0.000614**		**0.00276**	**0.00323**		
Cobalt	2017-08	mg/L	**0.0013**	**0.00175**	**0.000176 J**	**0.000337 J**	**0.000735**	**0.000546**		**0.00264**	**0.00257**		
Cobalt	2017-11	mg/L										**0.00262**	**0.0269**
Cobalt	2018-03	mg/L	**0.00129**	**0.00132**	**0.000142 J**	**0.000415 J**	**0.00082**	**0.000659**		**0.00294**	**0.00197**	**0.00387**	**0.0191**
Cobalt	2018-06	mg/L										**0.00515**	**0.0232**
Cobalt	2018-08	mg/L	**0.00114**	**0.00201**	**0.000132 J**	**0.000359 J**		**0.000775**		**0.00297**			
Cobalt	2018-09	mg/L									**0.0021**	**0.00558**	**0.0214**
Cobalt	2018-11	mg/L										**0.00653**	**0.0192**
Cobalt	2019-03	mg/L	**0.0014**	**0.00132**	< 0.0005	**0.00035 J**		**0.000743**	**0.000578**	**0.00333**	**0.00259**	**0.00824**	
Cobalt	2019-04	mg/L											**0.016**
Cobalt	2019-08	mg/L	**0.00144**	**0.00201**	**0.000158 J**	< 0.0005	**0.000816**	**0.00122**		**0.00499**	**0.00381**		**0.0181**
Cobalt	2020-03	mg/L	**0.00128**	**0.0017**	**0.000099 J**	**0.000414 J**	**0.000948**	**0.00103**		**0.00372**	**0.00292**		**0.0184**
Cobalt	2020-04	mg/L											
Cobalt	2020-08	mg/L	**0.00148**	**0.00187**	**0.000141 J**	**0.000361 J**	**0.000504**			**0.00732**	**0.00298**		**0.0194**
Cobalt	2021-03	mg/L	**0.00135**		**0.000113 J**	**0.000413 J**							**0.018**
Cobalt	2021-08	mg/L	**0.00105**	**0.00165**	**0.000117 J**	**0.000498 J**	**0.00103**			**0.00383**	**0.00725**		**0.0168**
Cobalt	2022-03	mg/L	**0.000995**		< 0.0005	**0.000454 J**							**0.0163**
Cobalt	2022-08	mg/L	**0.00115**	**0.00153**	< 0.0005	**0.000278 J**	**0.000878**			**0.00277**	**0.00352**		**0.0191**
Cobalt	2023-03	mg/L	**0.00104**		< 0.0005	**0.000382 J**							**0.0173**
Cobalt	2023-08	mg/L	**0.00147**	**0.00126**	**0.000186 J**	**0.000378 J**	**0.00105**			**0.00315**	**0.00275**		**0.0169**
Cobalt	2024-03	mg/L	**0.00127**		< 0.0005	**0.000359 J**							**0.0191**
Cobalt	2024-08	mg/L	**0.00139**	**0.0013**	< 0.0005	**0.000175 J**	**0.00106**			**0.00945**	**0.00224**		**0.0173**
Copper	2008-08	mg/L	< 0.05	< 0.05	~~< 0.05~~								
Copper	2009-03	mg/L	< 0.02	< 0.02	< 0.02								
Copper	2009-07	mg/L	< 0.02	< 0.02	< 0.02								
Copper	2009-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Copper	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Copper	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Copper	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Copper	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Copper	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Copper	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Copper	2013-03	mg/L	< 0.02	< 0.02	< 0.0200								
Copper	2013-09	mg/L	< 0.0200	< 0.0200	< 0.0200 J	~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Copper	2013-11	mg/L				~~< 0.0200 J~~	**0.00193 J**	< 0.0200	**0.00204 J**	**0.00224 J**	< 0.0200		
Copper	2014-03	mg/L	< 0.0200	< 0.0200	< 0.0200	~~**0.00172 J**~~	< 0.0200	< 0.0200	< 0.0200	**0.00176 J**	< 0.0200		
Copper	2014-06	mg/L				~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Copper	2014-09	mg/L	< 0.002	< 0.002	< 0.002	~~**0.00111 J**~~	< 0.002	< 0.002	< 0.002	**0.000962 J**	< 0.002		
Copper	2015-03	mg/L	< 0.00200 J	< 0.00200	< 0.002	~~< 0.00200~~	< 0.00200 J	< 0.00200 J	< 0.00200 J	**0.00118 J**	< 0.00200 J		
Copper	2015-06	mg/L											
Copper	2015-09	mg/L	**0.00114 J**	< 0.002	< 0.002								
Copper	2015-10	mg/L				< 0.002	< 0.002	< 0.002		**0.000944 J**	< 0.002 J		
Copper	2016-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005		
Copper	2016-06	mg/L											
Copper	2016-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005		
Copper	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005		
Copper	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005		
Copper	2017-11	mg/L										< 0.005	< 0.005
Copper	2018-03	mg/L	< 0.005	< 0.005	< 0.005	**0.0108**	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005
Copper	2018-06	mg/L										< 0.005	< 0.005
Copper	2018-08	mg/L	< 0.005	**0.00324 J**	< 0.005	< 0.005		< 0.005		< 0.005			
Copper	2018-09	mg/L									< 0.005	< 0.005	< 0.005
Copper	2018-11	mg/L										< 0.005	< 0.005
Copper	2019-03	mg/L	**0.00514**	**0.0066**	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Copper	2019-04	mg/L											< 0.005
Copper	2019-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005
Copper	2020-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005
Copper	2020-04	mg/L											
Copper	2020-08	mg/L	**0.00152 J**	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Copper	2021-03	mg/L				< 0.005								
Copper	2021-08	mg/L	**0.00313 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Copper	2022-03	mg/L				< 0.005								
Copper	2022-08	mg/L	**0.00182 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Copper	2023-03	mg/L				< 0.005								
Copper	2023-08	mg/L	**0.00211 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Copper	2024-03	mg/L				< 0.005								
Copper	2024-08	mg/L	**0.00234 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Cyanide	2008-08	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	2009-03	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	2010-09	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100				< 0.0100				
Cyanide	2015-06	mg/L						< 0.01	< 0.01					
Cyanide	2015-09	mg/L	< 0.01	< 0.01				< 0.01	< 0.01	< 0.01	< 0.01			
Cyanide	2015-10	mg/L			< 0.01	< 0.01								
Cyanide	2016-03	mg/L												
Cyanide	2016-06	mg/L					< 0.01							
Cyanide	2016-08	mg/L					< 0.01							
Cyanide	2018-11	mg/L											< 0.01	
Cyanide	2019-03	mg/L											< 0.01	
Cyanide	2020-08	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
Cyanide	2021-03	mg/L												
delta-BHC	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
delta-BHC	2008-09	ug/L										< 0.016		< 0.016
delta-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
delta-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
delta-BHC	2012-03	ug/L												
delta-BHC	2013-03	ug/L												
delta-BHC	2014-03	ug/L												
delta-BHC	2015-06	ug/L						< 0.0348	< 0.032					
delta-BHC	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	**0.00333 J**	< 0.0352			
delta-BHC	2015-10	ug/L			< 0.0372	< 0.0364								
delta-BHC	2016-03	ug/L												
delta-BHC	2016-06	ug/L					< 0.0364							
delta-BHC	2016-08	ug/L					< 0.0337							
delta-BHC	2017-03	ug/L												
delta-BHC	2017-08	ug/L												
delta-BHC	2018-11	ug/L											< 0.036	
delta-BHC	2019-03	ug/L											**0.00268 J**	
delta-BHC	2019-08	ug/L												
delta-BHC	2020-08	ug/L	< 0.0376	**0.00568 J**	< 0.0376	< 0.0376	< 0.0376	< 0.0376	**0.0035 J**	< 0.0376	< 0.039			
Diallate	2008-08	ug/L	< 10	< 10	< 10	< 10	**2.27 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diallate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diallate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Diallate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Diallate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Diallate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Diallate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Diallate	2013-09	ug/L					< 10.2							
Diallate	2015-06	ug/L						< 10.5	< 11.1					
Diallate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Diallate	2015-10	ug/L			< 10.3	< 10.5								
Diallate	2016-03	ug/L												
Diallate	2016-06	ug/L					< 11.4							
Diallate	2016-08	ug/L					< 11							
Diallate	2018-11	ug/L											< 11.6	
Diallate	2019-03	ug/L											< 12.2	
Diallate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Dibenzo(a,h)anthracene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzo(a,h)anthracene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzo(a,h)anthracene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Dibenzo(a,h)anthracene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Dibenzo(a,h)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dibenzo(a,h)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dibenzo(a,h)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dibenzo(a,h)anthracene	2015-06	ug/L						< 10.5	< 11.1					
Dibenzo(a,h)anthracene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Dibenzo(a,h)anthracene	2015-10	ug/L			< 10.3	< 10.5								
Dibenzo(a,h)anthracene	2016-03	ug/L												
Dibenzo(a,h)anthracene	2016-06	ug/L					< 11.4							
Dibenzo(a,h)anthracene	2016-08	ug/L					< 11							
Dibenzo(a,h)anthracene	2018-11	ug/L											< 11.6	
Dibenzo(a,h)anthracene	2019-03	ug/L											< 12.2	
Dibenzo(a,h)anthracene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Dibenzofuran	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Dibenzofuran	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Dibenzofuran	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dibenzofuran	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dibenzofuran	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dibenzofuran	2015-06	ug/L						< 10.5	< 11.1					
Dibenzofuran	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Dibenzofuran	2015-10	ug/L			< 10.3	< 10.5								
Dibenzofuran	2016-03	ug/L												
Dibenzofuran	2016-06	ug/L					< 11.4							
Dibenzofuran	2016-08	ug/L					< 11							
Dibenzofuran	2018-11	ug/L											< 11.6	
Dibenzofuran	2019-03	ug/L											< 12.2	

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Copper	2021-03	mg/L	**0.0053**		< 0.005	< 0.005							< 0.005
Copper	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			**0.00311 J**	< 0.005	< 0.005	< 0.005
Copper	2022-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Copper	2022-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Copper	2023-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Copper	2023-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Copper	2024-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Copper	2024-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	**0.00239 J**	< 0.005	< 0.005
Cyanide	2008-08	mg/L	< 0.01	< 0.01	< 0.01								
Cyanide	2009-03	mg/L	< 0.01	< 0.01	< 0.01								
Cyanide	2010-09	mg/L	< 0.0100	< 0.0100	< 0.0100								
Cyanide	2015-06	mg/L											
Cyanide	2015-09	mg/L	< 0.01	**0.0045 J**	< 0.01								
Cyanide	2015-10	mg/L				< 0.01							
Cyanide	2016-03	mg/L			< 0.01	< 0.01							
Cyanide	2016-06	mg/L											
Cyanide	2016-08	mg/L			< 0.01	< 0.01							
Cyanide	2018-11	mg/L											
Cyanide	2019-03	mg/L											
Cyanide	2020-08	mg/L	< 0.01	< 0.01	< 0.01	< 0.01							
Cyanide	2021-03	mg/L	< 0.01		< 0.01								
delta-BHC	2008-08	ug/L	< 0.047	< 0.053									
delta-BHC	2008-09	ug/L			< 0.016								
delta-BHC	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
delta-BHC	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
delta-BHC	2012-03	ug/L			< 0.0320								
delta-BHC	2013-03	ug/L			< 0.0344								
delta-BHC	2014-03	ug/L			< 0.0330								
delta-BHC	2015-06	ug/L											
delta-BHC	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
delta-BHC	2015-10	ug/L				< 0.0364							
delta-BHC	2016-03	ug/L			< 0.034	< 0.0356							
delta-BHC	2016-06	ug/L											
delta-BHC	2016-08	ug/L			< 0.0356	< 0.0327							
delta-BHC	2017-03	ug/L			< 0.0337	< 0.0356							
delta-BHC	2017-08	ug/L			< 0.0337	< 0.0344							
delta-BHC	2018-11	ug/L											
delta-BHC	2019-03	ug/L											
delta-BHC	2019-08	ug/L				< 0.0337							
delta-BHC	2020-08	ug/L	< 0.0376	**0.00435 J**	< 0.039	< 0.0376							
Diallate	2008-08	ug/L	< 10	< 10	< 10								
Diallate	2009-03	ug/L	< 10	< 10	< 10								
Diallate	2009-07	ug/L	< 10	< 10	< 10.0								
Diallate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Diallate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Diallate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Diallate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Diallate	2013-09	ug/L											
Diallate	2015-06	ug/L											
Diallate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Diallate	2015-10	ug/L				< 10.6							
Diallate	2016-03	ug/L			< 10	< 10							
Diallate	2016-06	ug/L											
Diallate	2016-08	ug/L			< 11.1	< 11.5							
Diallate	2018-11	ug/L											
Diallate	2019-03	ug/L											
Diallate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Dibenzo(a,h)anthracene	2008-08	ug/L	< 10	< 10	< 10								
Dibenzo(a,h)anthracene	2009-03	ug/L	< 10	< 10	< 10								
Dibenzo(a,h)anthracene	2009-07	ug/L	< 10	< 10	< 10.0								
Dibenzo(a,h)anthracene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Dibenzo(a,h)anthracene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Dibenzo(a,h)anthracene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Dibenzo(a,h)anthracene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Dibenzo(a,h)anthracene	2015-06	ug/L											
Dibenzo(a,h)anthracene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Dibenzo(a,h)anthracene	2015-10	ug/L				< 10.6							
Dibenzo(a,h)anthracene	2016-03	ug/L			< 10	< 10							
Dibenzo(a,h)anthracene	2016-06	ug/L											
Dibenzo(a,h)anthracene	2016-08	ug/L			< 11.1	< 11.5							
Dibenzo(a,h)anthracene	2018-11	ug/L											
Dibenzo(a,h)anthracene	2019-03	ug/L											
Dibenzo(a,h)anthracene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Dibenzofuran	2008-08	ug/L	< 10	< 10	< 10								
Dibenzofuran	2009-03	ug/L	< 10	< 10	< 10								
Dibenzofuran	2009-07	ug/L	< 10	< 10	< 10.0								
Dibenzofuran	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Dibenzofuran	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Dibenzofuran	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Dibenzofuran	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Dibenzofuran	2015-06	ug/L											
Dibenzofuran	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Dibenzofuran	2015-10	ug/L				< 10.6							
Dibenzofuran	2016-03	ug/L			< 10	< 10							
Dibenzofuran	2016-06	ug/L											
Dibenzofuran	2016-08	ug/L			< 11.1	< 11.5							
Dibenzofuran	2018-11	ug/L											
Dibenzofuran	2019-03	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Dibenzofuran	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Dibromomethane	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Dibromomethane	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Dibromomethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 2.00
Dibromomethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
Dibromomethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2013-11	ug/L												
Dibromomethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibromomethane	2014-06	ug/L												
Dibromomethane	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
Dibromomethane	2015-06	ug/L						< 1	< 1					
Dibromomethane	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Dibromomethane	2015-10	ug/L			< 1	< 1							< 1	< 1
Dibromomethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2016-06	ug/L					< 1							
Dibromomethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2017-11	ug/L												
Dibromomethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2018-06	ug/L												
Dibromomethane	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Dibromomethane	2018-09	ug/L							< 1	< 1				
Dibromomethane	2018-11	ug/L											< 1	
Dibromomethane	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2019-04	ug/L												
Dibromomethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	2020-04	ug/L	< 1		< 1									
Dibromomethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Dibromomethane	2021-03	ug/L				< 1								
Dibromomethane	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Dibromomethane	2022-03	ug/L				< 1								
Dibromomethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Dibromomethane	2023-03	ug/L				< 1								
Dibromomethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Dibromomethane	2024-03	ug/L				< 1								
Dibromomethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Dichlorodifluoromethane	2008-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	2009-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	2009-07	ug/L	< 3	< 3	< 3	< 3		< 3	< 3.00	< 3.00	< 3			
Dichlorodifluoromethane	2009-09	ug/L	< 3.00	< 3	< 3.00	< 15.0		< 3	< 3	< 3	< 3			
Dichlorodifluoromethane	2010-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Dichlorodifluoromethane	2010-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00				< 3.00				
Dichlorodifluoromethane	2011-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00				< 3.00				
Dichlorodifluoromethane	2012-09	ug/L		< 3.00										
Dichlorodifluoromethane	2015-06	ug/L						**0.311 J**	< 3					
Dichlorodifluoromethane	2015-09	ug/L	< 3	< 3				< 3	< 3	< 3	< 3			
Dichlorodifluoromethane	2015-10	ug/L			< 3	< 3								
Dichlorodifluoromethane	2016-03	ug/L												
Dichlorodifluoromethane	2016-06	ug/L					< 3							
Dichlorodifluoromethane	2016-08	ug/L					< 3							
Dichlorodifluoromethane	2018-11	ug/L											< 3	
Dichlorodifluoromethane	2019-03	ug/L											< 3	
Dichlorodifluoromethane	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			
Dieldrin	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Dieldrin	2008-09	ug/L										< 0.016		< 0.016
Dieldrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Dieldrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Dieldrin	2012-03	ug/L												
Dieldrin	2013-03	ug/L												
Dieldrin	2014-03	ug/L												
Dieldrin	2014-09	ug/L												
Dieldrin	2015-03	ug/L												
Dieldrin	2015-06	ug/L						< 0.0348	< 0.032					
Dieldrin	2015-09	ug/L	< 0.0356	**0.00418 J**				< 0.036	< 0.0327	**0.00396 J**	< 0.0352			
Dieldrin	2015-10	ug/L			< 0.0372	< 0.0364								
Dieldrin	2016-03	ug/L												
Dieldrin	2016-06	ug/L					< 0.0364							
Dieldrin	2016-08	ug/L					< 0.0337							
Dieldrin	2017-03	ug/L												
Dieldrin	2017-08	ug/L												
Dieldrin	2018-11	ug/L											< 0.036	
Dieldrin	2019-03	ug/L											< 0.0372	
Dieldrin	2020-08	ug/L	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
Diethylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diethylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diethylphthalate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Diethylphthalate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Diethylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Dibenzofuran	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Dibromomethane	2008-08	ug/L	< 1	< 1	< 1								
Dibromomethane	2009-03	ug/L	< 1	< 1	< 1								
Dibromomethane	2009-07	ug/L	< 1	< 1									
Dibromomethane	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Dibromomethane	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
Dibromomethane	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
Dibromomethane	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Dibromomethane	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
Dibromomethane	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
Dibromomethane	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
Dibromomethane	2013-03	ug/L	< 1	< 1	< 1.00								
Dibromomethane	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Dibromomethane	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Dibromomethane	2015-06	ug/L											
Dibromomethane	2015-09	ug/L	< 1	< 1	< 1								
Dibromomethane	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Dibromomethane	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Dibromomethane	2016-06	ug/L											
Dibromomethane	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Dibromomethane	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Dibromomethane	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Dibromomethane	2017-11	ug/L										< 1	< 1
Dibromomethane	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Dibromomethane	2018-06	ug/L										< 1	< 1
Dibromomethane	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
Dibromomethane	2018-09	ug/L									< 1	< 1	< 1
Dibromomethane	2018-11	ug/L										< 1	< 1
Dibromomethane	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Dibromomethane	2019-04	ug/L											< 1
Dibromomethane	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Dibromomethane	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Dibromomethane	2020-04	ug/L											
Dibromomethane	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Dibromomethane	2021-03	ug/L	< 1		< 1	< 1							< 1
Dibromomethane	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Dibromomethane	2022-03	ug/L	< 1		< 1	< 1							< 1
Dibromomethane	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Dibromomethane	2023-03	ug/L	< 1		< 1	< 1							< 1
Dibromomethane	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Dibromomethane	2024-03	ug/L	< 1		< 1	< 1							< 1
Dibromomethane	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Dichlorodifluoromethane	2008-08	ug/L	< 3	< 3	< 3								
Dichlorodifluoromethane	2009-03	ug/L	< 3	< 3	< 3								
Dichlorodifluoromethane	2009-07	ug/L	< 3	< 3									
Dichlorodifluoromethane	2009-09	ug/L	< 3.00	< 3.00	< 3.00								
Dichlorodifluoromethane	2010-03	ug/L	< 3.00	< 3.00	< 3.00								
Dichlorodifluoromethane	2010-09	ug/L	< 3.00	< 3.00	< 3.00								
Dichlorodifluoromethane	2011-03	ug/L	< 3.00	< 3.00	< 3.00								
Dichlorodifluoromethane	2012-09	ug/L											
Dichlorodifluoromethane	2015-06	ug/L											
Dichlorodifluoromethane	2015-09	ug/L	< 3	< 3	< 3								
Dichlorodifluoromethane	2015-10	ug/L				< 3							
Dichlorodifluoromethane	2016-03	ug/L			< 3	< 3							
Dichlorodifluoromethane	2016-06	ug/L											
Dichlorodifluoromethane	2016-08	ug/L			< 3	< 3							
Dichlorodifluoromethane	2018-11	ug/L											
Dichlorodifluoromethane	2019-03	ug/L											
Dichlorodifluoromethane	2020-08	ug/L	< 3	< 3	< 3	< 3							
Dieldrin	2008-08	ug/L	< 0.047	< 0.053									
Dieldrin	2008-09	ug/L			< 0.016								
Dieldrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Dieldrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Dieldrin	2012-03	ug/L			< 0.0320								
Dieldrin	2013-03	ug/L			< 0.0344								
Dieldrin	2014-03	ug/L			< 0.0330								
Dieldrin	2014-09	ug/L			< 0.032								
Dieldrin	2015-03	ug/L			**0.0029 J**								
Dieldrin	2015-06	ug/L											
Dieldrin	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Dieldrin	2015-10	ug/L				< 0.0364							
Dieldrin	2016-03	ug/L			< 0.034	< 0.0356							
Dieldrin	2016-06	ug/L											
Dieldrin	2016-08	ug/L			< 0.0356	< 0.0327							
Dieldrin	2017-03	ug/L			< 0.0337	< 0.0356							
Dieldrin	2017-08	ug/L			< 0.0337	< 0.0344							
Dieldrin	2018-11	ug/L											
Dieldrin	2019-03	ug/L											
Dieldrin	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Diethylphthalate	2008-08	ug/L	< 10	< 10	< 10								
Diethylphthalate	2009-03	ug/L	< 10	< 10	< 10								
Diethylphthalate	2009-07	ug/L	< 10	< 10	< 10.0								
Diethylphthalate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Diethylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Diethylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Diethylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Diethylphthalate	2011-09	ug/L												
Diethylphthalate	2012-03	ug/L												
Diethylphthalate	2012-09	ug/L												
Diethylphthalate	2013-03	ug/L												
Diethylphthalate	2013-09	ug/L												
Diethylphthalate	2015-06	ug/L						< 10.5	< 11.1					
Diethylphthalate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Diethylphthalate	2015-10	ug/L			< 10.3	< 10.5								
Diethylphthalate	2016-03	ug/L												
Diethylphthalate	2016-06	ug/L					< 11.4							
Diethylphthalate	2016-08	ug/L					< 11							
Diethylphthalate	2018-11	ug/L											< 11.6	
Diethylphthalate	2019-03	ug/L											< 12.2	
Diethylphthalate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Dimethoate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dimethoate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dimethoate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Dimethoate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Dimethoate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dimethoate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dimethoate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dimethoate	2015-06	ug/L						< 10.5	< 11.1					
Dimethoate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Dimethoate	2015-10	ug/L			< 10.3	< 10.5								
Dimethoate	2016-03	ug/L												
Dimethoate	2016-06	ug/L					< 11.4							
Dimethoate	2016-08	ug/L					< 11							
Dimethoate	2018-11	ug/L											< 11.6	
Dimethoate	2019-03	ug/L											< 12.2	
Dimethoate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Dimethylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dimethylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dimethylphthalate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Dimethylphthalate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Dimethylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dimethylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dimethylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dimethylphthalate	2015-06	ug/L						< 10.5	< 11.1					
Dimethylphthalate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Dimethylphthalate	2015-10	ug/L			< 10.3	< 10.5								
Dimethylphthalate	2016-03	ug/L												
Dimethylphthalate	2016-06	ug/L					< 11.4							
Dimethylphthalate	2016-08	ug/L					< 11							
Dimethylphthalate	2018-11	ug/L											< 11.6	
Dimethylphthalate	2019-03	ug/L											< 12.2	
Dimethylphthalate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Di-n-butylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	**1.66 J**	< 10	< 10	< 10	< 10	< 10
Di-n-butylphthalate	2009-03	ug/L	< 10	**1.47 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Di-n-butylphthalate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Di-n-butylphthalate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Di-n-butylphthalate	2010-03	ug/L	**1.03 J**	**1.32 J**	**0.982 J**	**1.17 J**	**0.857 J**	**0.984 J**	**0.794 J**	**1.34 J**	**0.787 J**	**1.05 J**	**0.800 J**	**0.638 J**
Di-n-butylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 0.777 U				
Di-n-butylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	**0.718 J**				< 10.0				
Di-n-butylphthalate	2011-09	ug/L	**0.621 J**	< 10.0 J	< 10.0	**0.808 J**				**0.769 J**				
Di-n-butylphthalate	2012-03	ug/L	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J				< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J	< 10.0 J
Di-n-butylphthalate	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0			< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Di-n-butylphthalate	2013-03	ug/L	< 10.2 J	< 10.2 J	< 10.6	**0.789 J**			< 10.9	< 10.9 J	< 10.2	< 10.5	< 10.2 J	< 11.1 J
Di-n-butylphthalate	2013-09	ug/L	< 11.0	< 11.0	< 10.8	< 10.9	< 10.2	< 10.2	< 10.2	< 10.3	< 10.9	< 11.1	< 10.4	< 10.6
Di-n-butylphthalate	2014-03	ug/L												
Di-n-butylphthalate	2014-09	ug/L												
Di-n-butylphthalate	2015-03	ug/L												
Di-n-butylphthalate	2015-06	ug/L						< 10.5	< 11.1					
Di-n-butylphthalate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Di-n-butylphthalate	2015-10	ug/L			< 10.3	< 10.5								
Di-n-butylphthalate	2016-03	ug/L												
Di-n-butylphthalate	2016-06	ug/L					< 11.4							
Di-n-butylphthalate	2016-08	ug/L					< 11							
Di-n-butylphthalate	2017-03	ug/L												
Di-n-butylphthalate	2017-08	ug/L												
Di-n-butylphthalate	2018-11	ug/L											< 11.6	
Di-n-butylphthalate	2019-03	ug/L											< 12.2	
Di-n-butylphthalate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Di-n-octylphthalate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Di-n-octylphthalate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Di-n-octylphthalate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Di-n-octylphthalate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Di-n-octylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Di-n-octylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Di-n-octylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Di-n-octylphthalate	2011-09	ug/L												
Di-n-octylphthalate	2012-03	ug/L												
Di-n-octylphthalate	2012-09	ug/L												
Di-n-octylphthalate	2013-03	ug/L												
Di-n-octylphthalate	2013-09	ug/L												
Di-n-octylphthalate	2015-06	ug/L						< 21.1	< 22.2					
Di-n-octylphthalate	2015-09	ug/L	< 22.2	< 22.5				< 22.2	< 20.4	< 22.5	< 22.2			

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Diethylphthalate	2010-09	ug/L	< 10.0	**0.328 J**	< 10.0								
Diethylphthalate	2011-03	ug/L	< 10.0	**0.297 J**	< 10.0								
Diethylphthalate	2011-09	ug/L		< 10.0 J	< 10.0								
Diethylphthalate	2012-03	ug/L		< 10.0	< 10.0								
Diethylphthalate	2012-09	ug/L		**0.299 J**	< 10.0								
Diethylphthalate	2013-03	ug/L		< 21.5	< 10.4								
Diethylphthalate	2013-09	ug/L		< 10.9									
Diethylphthalate	2015-06	ug/L											
Diethylphthalate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Diethylphthalate	2015-10	ug/L				< 10.6							
Diethylphthalate	2016-03	ug/L			< 10	< 10							
Diethylphthalate	2016-06	ug/L											
Diethylphthalate	2016-08	ug/L			< 11.1	< 11.5							
Diethylphthalate	2018-11	ug/L											
Diethylphthalate	2019-03	ug/L											
Diethylphthalate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Dimethoate	2008-08	ug/L	< 10	< 10	< 10								
Dimethoate	2009-03	ug/L	< 10	< 10	< 10								
Dimethoate	2009-07	ug/L	< 10	< 10	< 10.0								
Dimethoate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Dimethoate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Dimethoate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Dimethoate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Dimethoate	2015-06	ug/L											
Dimethoate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Dimethoate	2015-10	ug/L				< 10.6							
Dimethoate	2016-03	ug/L			< 10	< 10							
Dimethoate	2016-06	ug/L											
Dimethoate	2016-08	ug/L			< 11.1	< 11.5							
Dimethoate	2018-11	ug/L											
Dimethoate	2019-03	ug/L											
Dimethoate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Dimethylphthalate	2008-08	ug/L	< 10	< 10	< 10								
Dimethylphthalate	2009-03	ug/L	< 10	< 10	< 10								
Dimethylphthalate	2009-07	ug/L	< 10	< 10	< 10.0								
Dimethylphthalate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Dimethylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Dimethylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Dimethylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Dimethylphthalate	2015-06	ug/L											
Dimethylphthalate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Dimethylphthalate	2015-10	ug/L				< 10.6							
Dimethylphthalate	2016-03	ug/L			< 10	< 10							
Dimethylphthalate	2016-06	ug/L											
Dimethylphthalate	2016-08	ug/L			< 11.1	< 11.5							
Dimethylphthalate	2018-11	ug/L											
Dimethylphthalate	2019-03	ug/L											
Dimethylphthalate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Di-n-butylphthalate	2008-08	ug/L	< 10	< 10	< 10								
Di-n-butylphthalate	2009-03	ug/L	< 10	< 10	< 10								
Di-n-butylphthalate	2009-07	ug/L	< 10	< 10	< 10.0								
Di-n-butylphthalate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Di-n-butylphthalate	2010-03	ug/L	**1.06 J**	**1.13 J**	**1.92 J**								
Di-n-butylphthalate	2010-09	ug/L	**0.830 J**	**0.806 J**	**0.618 J**								
Di-n-butylphthalate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Di-n-butylphthalate	2011-09	ug/L	**0.594 J**	< 10.0 J	< 10.0 J								
Di-n-butylphthalate	2012-03	ug/L	< 10.0 J	< 10.0 J	< 10.0 J								
Di-n-butylphthalate	2012-09	ug/L	< 10.0	< 10.0	**0.662 J**								
Di-n-butylphthalate	2013-03	ug/L	< 10.5	**1.74 J**	< 10.4 J								
Di-n-butylphthalate	2013-09	ug/L	< 10.1	< 10.9	< 10.2								
Di-n-butylphthalate	2014-03	ug/L			**2.69 J**								
Di-n-butylphthalate	2014-09	ug/L			< 10								
Di-n-butylphthalate	2015-03	ug/L			< 10.6								
Di-n-butylphthalate	2015-06	ug/L											
Di-n-butylphthalate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Di-n-butylphthalate	2015-10	ug/L				< 10.6							
Di-n-butylphthalate	2016-03	ug/L			< 10	< 10							
Di-n-butylphthalate	2016-06	ug/L											
Di-n-butylphthalate	2016-08	ug/L			< 11.1	< 11.5							
Di-n-butylphthalate	2017-03	ug/L			< 10.2	< 11.4							
Di-n-butylphthalate	2017-08	ug/L			< 10.6	< 11.1							
Di-n-butylphthalate	2018-11	ug/L											
Di-n-butylphthalate	2019-03	ug/L											
Di-n-butylphthalate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Di-n-octylphthalate	2008-08	ug/L	< 10	< 10	< 10								
Di-n-octylphthalate	2009-03	ug/L	< 10	< 10	< 10								
Di-n-octylphthalate	2009-07	ug/L	< 10	< 10	< 10.0								
Di-n-octylphthalate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Di-n-octylphthalate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Di-n-octylphthalate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Di-n-octylphthalate	2011-03	ug/L	**0.274 J**	< 10.0	< 10.0								
Di-n-octylphthalate	2011-09	ug/L	< 10.0		< 10.0								
Di-n-octylphthalate	2012-03	ug/L	< 10.0		< 10.0								
Di-n-octylphthalate	2012-09	ug/L	< 10.0		< 10.0								
Di-n-octylphthalate	2013-03	ug/L	**0.411 J**		< 20.8								
Di-n-octylphthalate	2013-09	ug/L	< 20.2										
Di-n-octylphthalate	2015-06	ug/L											
Di-n-octylphthalate	2015-09	ug/L	< 21.7	< 21.1	< 22.5								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Di-n-octylphthalate	2015-10	ug/L			< 20.6	< 21.1								
Di-n-octylphthalate	2016-03	ug/L												
Di-n-octylphthalate	2016-06	ug/L					< 22.7 J							
Di-n-octylphthalate	2016-08	ug/L					< 22							
Di-n-octylphthalate	2018-11	ug/L											< 23.3	
Di-n-octylphthalate	2019-03	ug/L											< 24.4	
Di-n-octylphthalate	2020-08	ug/L	< 23.5	< 24.4	< 21.5	< 21.7	< 22.7	< 22.7	< 22.5	< 23.5	< 23.8			
Dinoseb	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dinoseb	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dinoseb	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Dinoseb	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Dinoseb	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dinoseb	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dinoseb	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Dinoseb	2015-06	ug/L						< 10.5	< 11.1					
Dinoseb	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Dinoseb	2015-10	ug/L			< 10.3	< 10.5								
Dinoseb	2016-03	ug/L												
Dinoseb	2016-06	ug/L					< 11.4							
Dinoseb	2016-08	ug/L					< 11							
Dinoseb	2018-11	ug/L											< 11.6	
Dinoseb	2019-03	ug/L											< 12.2	
Dinoseb	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Diphenylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diphenylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diphenylamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Diphenylamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Diphenylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Diphenylamine	2010-09	ug/L	< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R				< 10.0 R				
Diphenylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Diphenylamine	2015-06	ug/L						< 10.5	< 11.1					
Diphenylamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Diphenylamine	2015-10	ug/L			< 10.3	< 10.5								
Diphenylamine	2016-03	ug/L												
Diphenylamine	2016-06	ug/L					< 11.4							
Diphenylamine	2016-08	ug/L					< 11							
Diphenylamine	2018-11	ug/L											< 11.6	
Diphenylamine	2019-03	ug/L											< 12.2	
Diphenylamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Disulfoton	2008-08	ug/L	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Disulfoton	2009-03	ug/L	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Disulfoton	2009-07	ug/L	< 70	< 70	< 70	< 70	< 70	< 70	< 70.0	< 70.0	< 70	< 70	< 70	< 70.0
Disulfoton	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Disulfoton	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Disulfoton	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Disulfoton	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Disulfoton	2011-09	ug/L												
Disulfoton	2012-03	ug/L												
Disulfoton	2012-09	ug/L												
Disulfoton	2013-03	ug/L												
Disulfoton	2013-09	ug/L												
Disulfoton	2015-06	ug/L						< 10.5	< 11.1					
Disulfoton	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Disulfoton	2015-10	ug/L			< 10.3	< 10.5								
Disulfoton	2016-03	ug/L												
Disulfoton	2016-06	ug/L					< 11.4							
Disulfoton	2016-08	ug/L					< 11							
Disulfoton	2018-11	ug/L											< 11.6	
Disulfoton	2019-03	ug/L											< 12.2	
Disulfoton	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Endosulfan I	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Endosulfan I	2008-09	ug/L										< 0.016		< 0.016
Endosulfan I	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endosulfan I	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Endosulfan I	2015-06	ug/L						**0.00275 J**	< 0.032					
Endosulfan I	2015-09	ug/L	< 0.0356	**0.00222 J**				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Endosulfan I	2015-10	ug/L			< 0.0372	< 0.0364								
Endosulfan I	2016-03	ug/L												
Endosulfan I	2016-06	ug/L					< 0.0364							
Endosulfan I	2016-08	ug/L					< 0.0337							
Endosulfan I	2018-11	ug/L											< 0.036	
Endosulfan I	2019-03	ug/L											< 0.0372	
Endosulfan I	2020-08	ug/L	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	**0.00306 J**	< 0.0376	< 0.039			
Endosulfan II	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Endosulfan II	2008-09	ug/L										< 0.016		< 0.016
Endosulfan II	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endosulfan II	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Endosulfan II	2015-06	ug/L						< 0.0348	< 0.032					
Endosulfan II	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Endosulfan II	2015-10	ug/L			< 0.0372	< 0.0364								
Endosulfan II	2016-03	ug/L												
Endosulfan II	2016-06	ug/L					< 0.0364							
Endosulfan II	2016-08	ug/L					< 0.0337							
Endosulfan II	2018-11	ug/L											< 0.036	
Endosulfan II	2019-03	ug/L											< 0.0372	
Endosulfan II	2020-08	ug/L	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
Endosulfan Sulfate	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Endosulfan Sulfate	2008-09	ug/L										< 0.016		< 0.016

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Di-n-octylphthalate	2015-10	ug/L				< 21.3							
Di-n-octylphthalate	2016-03	ug/L			< 20 J	< 20 J							
Di-n-octylphthalate	2016-06	ug/L											
Di-n-octylphthalate	2016-08	ug/L			**1.73 J**	< 23							
Di-n-octylphthalate	2018-11	ug/L											
Di-n-octylphthalate	2019-03	ug/L											
Di-n-octylphthalate	2020-08	ug/L	< 23.5	< 22	< 23.5	< 23.5							
Dinoseb	2008-08	ug/L	< 10	< 10	< 10								
Dinoseb	2009-03	ug/L	< 10	< 10	< 10								
Dinoseb	2009-07	ug/L	< 10	< 10	< 10.0								
Dinoseb	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Dinoseb	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Dinoseb	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Dinoseb	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Dinoseb	2015-06	ug/L											
Dinoseb	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Dinoseb	2015-10	ug/L				< 10.6							
Dinoseb	2016-03	ug/L			< 10	< 10							
Dinoseb	2016-06	ug/L											
Dinoseb	2016-08	ug/L			< 11.1	< 11.5							
Dinoseb	2018-11	ug/L											
Dinoseb	2019-03	ug/L											
Dinoseb	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Diphenylamine	2008-08	ug/L	< 10	< 10	< 10								
Diphenylamine	2009-03	ug/L	< 10	< 10	< 10								
Diphenylamine	2009-07	ug/L	< 10	< 10	< 10.0								
Diphenylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Diphenylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Diphenylamine	2010-09	ug/L	< 10.0 R	< 10.0 R	< 10.0 R								
Diphenylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Diphenylamine	2015-06	ug/L											
Diphenylamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Diphenylamine	2015-10	ug/L				< 10.6							
Diphenylamine	2016-03	ug/L			< 10	< 10							
Diphenylamine	2016-06	ug/L											
Diphenylamine	2016-08	ug/L			< 11.1	< 11.5							
Diphenylamine	2018-11	ug/L											
Diphenylamine	2019-03	ug/L											
Diphenylamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Disulfoton	2008-08	ug/L	< 70	< 70	< 70								
Disulfoton	2009-03	ug/L	< 70	< 70	< 70								
Disulfoton	2009-07	ug/L	< 70	< 70	< 70.0								
Disulfoton	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Disulfoton	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Disulfoton	2010-09	ug/L	< 10.0	< 10.0	**1.11 J**								
Disulfoton	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Disulfoton	2011-09	ug/L			< 10.0								
Disulfoton	2012-03	ug/L			< 10.0								
Disulfoton	2012-09	ug/L			< 10.0								
Disulfoton	2013-03	ug/L			< 10.4								
Disulfoton	2013-09	ug/L			< 10.2								
Disulfoton	2015-06	ug/L											
Disulfoton	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Disulfoton	2015-10	ug/L				< 10.6							
Disulfoton	2016-03	ug/L			< 10	< 10							
Disulfoton	2016-06	ug/L											
Disulfoton	2016-08	ug/L			< 11.1	< 11.5							
Disulfoton	2018-11	ug/L											
Disulfoton	2019-03	ug/L											
Disulfoton	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Endosulfan I	2008-08	ug/L	< 0.047	< 0.053									
Endosulfan I	2008-09	ug/L			< 0.016								
Endosulfan I	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Endosulfan I	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Endosulfan I	2015-06	ug/L											
Endosulfan I	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Endosulfan I	2015-10	ug/L				< 0.0364							
Endosulfan I	2016-03	ug/L			< 0.034	< 0.0356							
Endosulfan I	2016-06	ug/L											
Endosulfan I	2016-08	ug/L			< 0.0356	< 0.0327							
Endosulfan I	2018-11	ug/L											
Endosulfan I	2019-03	ug/L											
Endosulfan I	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Endosulfan II	2008-08	ug/L	< 0.047	< 0.053									
Endosulfan II	2008-09	ug/L			< 0.016								
Endosulfan II	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Endosulfan II	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Endosulfan II	2015-06	ug/L											
Endosulfan II	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Endosulfan II	2015-10	ug/L				< 0.0364							
Endosulfan II	2016-03	ug/L			< 0.034	< 0.0356							
Endosulfan II	2016-06	ug/L											
Endosulfan II	2016-08	ug/L			< 0.0356	< 0.0327							
Endosulfan II	2018-11	ug/L											
Endosulfan II	2019-03	ug/L											
Endosulfan II	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Endosulfan Sulfate	2008-08	ug/L	< 0.047	< 0.053									
Endosulfan Sulfate	2008-09	ug/L			< 0.016								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Endosulfan Sulfate	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endosulfan Sulfate	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Endosulfan Sulfate	2015-06	ug/L						< 0.0348	< 0.032					
Endosulfan Sulfate	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Endosulfan Sulfate	2015-10	ug/L			< 0.0372	< 0.0364								
Endosulfan Sulfate	2016-03	ug/L												
Endosulfan Sulfate	2016-06	ug/L					< 0.0364							
Endosulfan Sulfate	2016-08	ug/L					< 0.0337							
Endosulfan Sulfate	2018-11	ug/L											< 0.036	
Endosulfan Sulfate	2019-03	ug/L											< 0.0372	
Endosulfan Sulfate	2020-08	ug/L	**0.00429 J**	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
Endrin	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Endrin	2008-09	ug/L										< 0.016		< 0.016
Endrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Endrin	2015-06	ug/L						< 0.0348 J	< 0.032					
Endrin	2015-09	ug/L	**0.00282 J**	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Endrin	2015-10	ug/L			< 0.0372	< 0.0364								
Endrin	2016-03	ug/L												
Endrin	2016-06	ug/L					< 0.0364							
Endrin	2016-08	ug/L					< 0.0337							
Endrin	2018-11	ug/L											< 0.036	
Endrin	2019-03	ug/L											< 0.0372	
Endrin	2020-08	ug/L	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	**0.00456 J**	< 0.039			
Endrin Aldehyde	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Endrin Aldehyde	2008-09	ug/L										< 0.016		< 0.016
Endrin Aldehyde	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Endrin Aldehyde	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Endrin Aldehyde	2015-06	ug/L						< 0.0348	< 0.032					
Endrin Aldehyde	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Endrin Aldehyde	2015-10	ug/L			< 0.0372	< 0.0364								
Endrin Aldehyde	2016-03	ug/L												
Endrin Aldehyde	2016-06	ug/L					< 0.0364							
Endrin Aldehyde	2016-08	ug/L					< 0.0337							
Endrin Aldehyde	2018-11	ug/L											< 0.036	
Endrin Aldehyde	2019-03	ug/L											< 0.0372	
Endrin Aldehyde	2020-08	ug/L	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
Ethyl Methacrylate	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethyl Methacrylate	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethyl Methacrylate	2009-07	ug/L	< 2	< 2	< 2	< 2		< 2	< 2.00	< 2.00	< 2			
Ethyl Methacrylate	2009-09	ug/L	< 2.00	< 2	< 2.00	< 10.0		< 2	< 2	< 2	< 2			
Ethyl Methacrylate	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 5.00
Ethyl Methacrylate	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0				< 20.0				
Ethyl Methacrylate	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00				< 2.00				
Ethyl Methacrylate	2012-09	ug/L		< 2.00										
Ethyl Methacrylate	2015-06	ug/L						< 2	< 2					
Ethyl Methacrylate	2015-09	ug/L	< 2	< 2				< 2	< 2	< 2	< 2			
Ethyl Methacrylate	2015-10	ug/L			< 2	< 2								
Ethyl Methacrylate	2016-03	ug/L												
Ethyl Methacrylate	2016-06	ug/L					< 2							
Ethyl Methacrylate	2016-08	ug/L					< 2							
Ethyl Methacrylate	2018-11	ug/L											< 2	
Ethyl Methacrylate	2019-03	ug/L											< 2	
Ethyl Methacrylate	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			
Ethyl Methanesulfonate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ethyl Methanesulfonate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ethyl Methanesulfonate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Ethyl Methanesulfonate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Ethyl Methanesulfonate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethyl Methanesulfonate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Ethyl Methanesulfonate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Ethyl Methanesulfonate	2015-06	ug/L						< 10.5	< 11.1					
Ethyl Methanesulfonate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Ethyl Methanesulfonate	2015-10	ug/L			< 10.3	< 10.5								
Ethyl Methanesulfonate	2016-03	ug/L												
Ethyl Methanesulfonate	2016-06	ug/L					< 11.4							
Ethyl Methanesulfonate	2016-08	ug/L					< 11							
Ethyl Methanesulfonate	2018-11	ug/L											< 11.6	
Ethyl Methanesulfonate	2019-03	ug/L											< 12.2	
Ethyl Methanesulfonate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Ethylbenzene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Ethylbenzene	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Ethylbenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
Ethylbenzene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2013-11	ug/L												
Ethylbenzene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	2014-06	ug/L												
Ethylbenzene	2014-09	ug/L	< 1	< 1	< 1	**0.333 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
Ethylbenzene	2015-06	ug/L						< 1	< 1					

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Endosulfan Sulfate	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Endosulfan Sulfate	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Endosulfan Sulfate	2015-06	ug/L											
Endosulfan Sulfate	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Endosulfan Sulfate	2015-10	ug/L				< 0.0364							
Endosulfan Sulfate	2016-03	ug/L			< 0.034	< 0.0356							
Endosulfan Sulfate	2016-06	ug/L											
Endosulfan Sulfate	2016-08	ug/L			< 0.0356	< 0.0327							
Endosulfan Sulfate	2018-11	ug/L											
Endosulfan Sulfate	2019-03	ug/L											
Endosulfan Sulfate	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Endrin	2008-08	ug/L	< 0.047	< 0.053									
Endrin	2008-09	ug/L			< 0.016								
Endrin	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Endrin	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Endrin	2015-06	ug/L											
Endrin	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Endrin	2015-10	ug/L				< 0.0364							
Endrin	2016-03	ug/L			< 0.034	< 0.0356							
Endrin	2016-06	ug/L											
Endrin	2016-08	ug/L			< 0.0356	< 0.0327							
Endrin	2018-11	ug/L											
Endrin	2019-03	ug/L											
Endrin	2020-08	ug/L	< 0.0376	**0.00465 J**	< 0.039	< 0.0376							
Endrin Aldehyde	2008-08	ug/L	< 0.047	< 0.053									
Endrin Aldehyde	2008-09	ug/L			< 0.016								
Endrin Aldehyde	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Endrin Aldehyde	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Endrin Aldehyde	2015-06	ug/L											
Endrin Aldehyde	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Endrin Aldehyde	2015-10	ug/L				< 0.0364							
Endrin Aldehyde	2016-03	ug/L			< 0.034	< 0.0356							
Endrin Aldehyde	2016-06	ug/L											
Endrin Aldehyde	2016-08	ug/L			< 0.0356	< 0.0327							
Endrin Aldehyde	2018-11	ug/L											
Endrin Aldehyde	2019-03	ug/L											
Endrin Aldehyde	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Ethyl Methacrylate	2008-08	ug/L	< 2	< 2	< 2								
Ethyl Methacrylate	2009-03	ug/L	< 2	< 2	< 2								
Ethyl Methacrylate	2009-07	ug/L	< 2	< 2									
Ethyl Methacrylate	2009-09	ug/L	< 2.00	< 2.00	< 2.00								
Ethyl Methacrylate	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
Ethyl Methacrylate	2010-09	ug/L	< 20.0	< 20.0	< 20.0								
Ethyl Methacrylate	2011-03	ug/L	< 2.00	< 2.00	< 2.00								
Ethyl Methacrylate	2012-09	ug/L											
Ethyl Methacrylate	2015-06	ug/L											
Ethyl Methacrylate	2015-09	ug/L	< 2	< 2	< 2								
Ethyl Methacrylate	2015-10	ug/L				< 2							
Ethyl Methacrylate	2016-03	ug/L			< 2	< 2							
Ethyl Methacrylate	2016-06	ug/L											
Ethyl Methacrylate	2016-08	ug/L			< 2	< 2							
Ethyl Methacrylate	2018-11	ug/L											
Ethyl Methacrylate	2019-03	ug/L											
Ethyl Methacrylate	2020-08	ug/L	< 2	< 2	< 2	< 2							
Ethyl Methanesulfonate	2008-08	ug/L	< 10	< 10	< 10								
Ethyl Methanesulfonate	2009-03	ug/L	< 10	< 10	< 10								
Ethyl Methanesulfonate	2009-07	ug/L	< 10	< 10	< 10.0								
Ethyl Methanesulfonate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Ethyl Methanesulfonate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Ethyl Methanesulfonate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Ethyl Methanesulfonate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Ethyl Methanesulfonate	2015-06	ug/L											
Ethyl Methanesulfonate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Ethyl Methanesulfonate	2015-10	ug/L				< 10.6							
Ethyl Methanesulfonate	2016-03	ug/L			< 10	< 10							
Ethyl Methanesulfonate	2016-06	ug/L											
Ethyl Methanesulfonate	2016-08	ug/L			< 11.1	< 11.5							
Ethyl Methanesulfonate	2018-11	ug/L											
Ethyl Methanesulfonate	2019-03	ug/L											
Ethyl Methanesulfonate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Ethylbenzene	2008-08	ug/L	< 1	< 1	< 1								
Ethylbenzene	2009-03	ug/L	< 1	< 1	< 1								
Ethylbenzene	2009-07	ug/L	< 1	< 1									
Ethylbenzene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
Ethylbenzene	2013-03	ug/L	< 1	< 1	< 1.00								
Ethylbenzene	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Ethylbenzene	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Ethylbenzene	2015-06	ug/L											

Table 14
Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Ethylbenzene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Ethylbenzene	2015-10	ug/L			< 1	< 1							< 1	< 1
Ethylbenzene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2016-06	ug/L					< 1							
Ethylbenzene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2017-03	ug/L	< 1	**0.298 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2017-11	ug/L												
Ethylbenzene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2018-06	ug/L												
Ethylbenzene	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Ethylbenzene	2018-09	ug/L							< 1	< 1				
Ethylbenzene	2018-11	ug/L											< 1	
Ethylbenzene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2019-04	ug/L												
Ethylbenzene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	2020-04	ug/L	< 1		< 1									
Ethylbenzene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Ethylbenzene	2021-03	ug/L				< 1								
Ethylbenzene	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Ethylbenzene	2022-03	ug/L				< 1								
Ethylbenzene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Ethylbenzene	2023-03	ug/L				< 1								
Ethylbenzene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Ethylbenzene	2024-03	ug/L				< 1								
Ethylbenzene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Famphur	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Famphur	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Famphur	2009-07	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0	< 20.0	< 20	< 20	< 20	< 20.0
Famphur	2009-09	ug/L	< 20.0	< 20	< 20.0	< 20.0	< 20.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0
Famphur	2010-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Famphur	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0				< 20.0				
Famphur	2011-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0				< 20.0				
Famphur	2015-06	ug/L						< 21.1	< 22.2					
Famphur	2015-09	ug/L	< 22.2	< 22.5				< 22.2	< 20.4	< 22.5	< 22.2			
Famphur	2015-10	ug/L			< 20.6	< 21.1								
Famphur	2016-03	ug/L												
Famphur	2016-06	ug/L					< 22.7							
Famphur	2016-08	ug/L					< 22							
Famphur	2018-11	ug/L											< 11.6	
Famphur	2019-03	ug/L											< 12.2	
Famphur	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Fluoranthene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Fluoranthene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Fluoranthene	2015-06	ug/L						< 10.5	< 11.1					
Fluoranthene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Fluoranthene	2015-10	ug/L			< 10.3	< 10.5								
Fluoranthene	2016-03	ug/L												
Fluoranthene	2016-06	ug/L					< 11.4							
Fluoranthene	2016-08	ug/L					< 11							
Fluoranthene	2018-11	ug/L											< 11.6	
Fluoranthene	2019-03	ug/L											< 12.2	
Fluoranthene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Fluorene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Fluorene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	**0.367 J**	< 10	< 10.0
Fluorene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Fluorene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Fluorene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Fluorene	2012-03	ug/L										< 10.0		
Fluorene	2012-09	ug/L										< 10.0		
Fluorene	2013-03	ug/L										< 10.5		
Fluorene	2013-09	ug/L										< 11.1		
Fluorene	2015-06	ug/L						< 10.5	< 11.1					
Fluorene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Fluorene	2015-10	ug/L			< 10.3	< 10.5								
Fluorene	2016-03	ug/L												
Fluorene	2016-06	ug/L					< 11.4							
Fluorene	2016-08	ug/L					< 11							
Fluorene	2018-11	ug/L											< 11.6	
Fluorene	2019-03	ug/L											< 12.2	
Fluorene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Fluorotrichloromethane	2008-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2009-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2009-07	ug/L	< 4	< 4	< 4	< 4		< 4	< 4.00	< 4.00	< 4			
Fluorotrichloromethane	2009-09	ug/L	< 4.00	< 4	< 4.00	< 20.0		< 4	< 4	< 4	< 4			
Fluorotrichloromethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Ethylbenzene	2015-09	ug/L	< 1	< 1	< 1								
Ethylbenzene	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Ethylbenzene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Ethylbenzene	2016-06	ug/L											
Ethylbenzene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Ethylbenzene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Ethylbenzene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Ethylbenzene	2017-11	ug/L										< 1	< 1
Ethylbenzene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Ethylbenzene	2018-06	ug/L										< 1	< 1
Ethylbenzene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
Ethylbenzene	2018-09	ug/L									< 1	< 1	< 1
Ethylbenzene	2018-11	ug/L										< 1	< 1
Ethylbenzene	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Ethylbenzene	2019-04	ug/L											< 1
Ethylbenzene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Ethylbenzene	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Ethylbenzene	2020-04	ug/L											
Ethylbenzene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Ethylbenzene	2021-03	ug/L	< 1		< 1	< 1							< 1
Ethylbenzene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Ethylbenzene	2022-03	ug/L	< 1		< 1	< 1							< 1
Ethylbenzene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Ethylbenzene	2023-03	ug/L	< 1		< 1	< 1							< 1
Ethylbenzene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Ethylbenzene	2024-03	ug/L	< 1		< 1	< 1							< 1
Ethylbenzene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Famphur	2008-08	ug/L	< 20	< 20	< 20								
Famphur	2009-03	ug/L	< 20	< 20	< 20								
Famphur	2009-07	ug/L	< 20	< 20	< 20.0								
Famphur	2009-09	ug/L	< 20.0	< 20.0	< 20.0								
Famphur	2010-03	ug/L	< 20.0	< 20.0	< 20.0								
Famphur	2010-09	ug/L	< 20.0	< 20.0	< 20.0								
Famphur	2011-03	ug/L	< 20.0	< 20.0	< 20.0								
Famphur	2015-06	ug/L											
Famphur	2015-09	ug/L	< 21.7	< 21.1	< 22.5								
Famphur	2015-10	ug/L				< 21.3							
Famphur	2016-03	ug/L			< 20	< 20							
Famphur	2016-06	ug/L											
Famphur	2016-08	ug/L			< 22.2	< 23							
Famphur	2018-11	ug/L											
Famphur	2019-03	ug/L											
Famphur	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Fluoranthene	2008-08	ug/L	< 10	< 10	< 10								
Fluoranthene	2009-03	ug/L	< 10	< 10	< 10								
Fluoranthene	2009-07	ug/L	< 10	< 10	< 10.0								
Fluoranthene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Fluoranthene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Fluoranthene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Fluoranthene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Fluoranthene	2015-06	ug/L											
Fluoranthene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Fluoranthene	2015-10	ug/L				< 10.6							
Fluoranthene	2016-03	ug/L			< 10	< 10							
Fluoranthene	2016-06	ug/L											
Fluoranthene	2016-08	ug/L			< 11.1	< 11.5							
Fluoranthene	2018-11	ug/L											
Fluoranthene	2019-03	ug/L											
Fluoranthene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Fluorene	2008-08	ug/L	< 10	< 10	< 10								
Fluorene	2009-03	ug/L	< 10	< 10	< 10								
Fluorene	2009-07	ug/L	< 10	< 10	< 10.0								
Fluorene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Fluorene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Fluorene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Fluorene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Fluorene	2012-03	ug/L			< 10.0								
Fluorene	2012-09	ug/L			< 10.0								
Fluorene	2013-03	ug/L			< 10.4								
Fluorene	2013-09	ug/L											
Fluorene	2015-06	ug/L											
Fluorene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Fluorene	2015-10	ug/L				< 10.6							
Fluorene	2016-03	ug/L			< 10	< 10							
Fluorene	2016-06	ug/L											
Fluorene	2016-08	ug/L			< 11.1	< 11.5							
Fluorene	2018-11	ug/L											
Fluorene	2019-03	ug/L											
Fluorene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Fluorotrichloromethane	2008-08	ug/L	< 4	< 4	< 4								
Fluorotrichloromethane	2009-03	ug/L	< 4	< 4	< 4								
Fluorotrichloromethane	2009-07	ug/L	< 4	< 4									
Fluorotrichloromethane	2009-09	ug/L	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2010-03	ug/L	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2010-09	ug/L	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2011-03	ug/L	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2011-09	ug/L	< 4.00	< 4.00	< 4.00								
Fluorotrichloromethane	2012-03	ug/L	< 4.00	< 4.00	< 4.00								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Fluorotrichloromethane	2012-09	ug/L	< 4.00	< 4.00	< 5.00	< 5.00	< 5.00	< 4.00	< 5.00	< 5.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2013-03	ug/L	< 4.00	< 4.00	< 4	< 4	< 4	< 4	< 4	< 4	< 4.00	< 4	< 4	< 4
Fluorotrichloromethane	2013-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2013-11	ug/L												
Fluorotrichloromethane	2014-03	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Fluorotrichloromethane	2014-06	ug/L												
Fluorotrichloromethane	2014-09	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2015-03	ug/L	< 4.00	< 4	< 4.00	< 4.00	< 4	< 4	< 4.00	< 4.00	< 4	< 4	< 4.00	< 4.00
Fluorotrichloromethane	2015-06	ug/L						< 4	< 4					
Fluorotrichloromethane	2015-09	ug/L	< 4	< 4			< 4	< 4	< 4	< 4	< 4	< 4		
Fluorotrichloromethane	2015-10	ug/L			< 4	< 4							< 4	< 4
Fluorotrichloromethane	2016-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2016-06	ug/L					< 4							
Fluorotrichloromethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2017-11	ug/L												
Fluorotrichloromethane	2018-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2018-06	ug/L												
Fluorotrichloromethane	2018-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Fluorotrichloromethane	2018-09	ug/L							< 4	< 4				
Fluorotrichloromethane	2018-11	ug/L											< 4	
Fluorotrichloromethane	2019-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2019-04	ug/L												
Fluorotrichloromethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2020-03	ug/L		< 4		< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Fluorotrichloromethane	2020-04	ug/L	< 4		< 4									
Fluorotrichloromethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Fluorotrichloromethane	2021-03	ug/L				< 4								
Fluorotrichloromethane	2021-08	ug/L	< 4	< 40	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Fluorotrichloromethane	2022-03	ug/L				< 4								
Fluorotrichloromethane	2022-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Fluorotrichloromethane	2023-03	ug/L				< 4								
Fluorotrichloromethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Fluorotrichloromethane	2024-03	ug/L				< 4								
Fluorotrichloromethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4			< 4
Heptachlor	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Heptachlor	2008-09	ug/L										< 0.016		< 0.016
Heptachlor	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Heptachlor	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Heptachlor	2012-03	ug/L												
Heptachlor	2013-03	ug/L												
Heptachlor	2014-03	ug/L												
Heptachlor	2014-09	ug/L												
Heptachlor	2015-03	ug/L												
Heptachlor	2015-06	ug/L						< 0.0348	< 0.032					
Heptachlor	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Heptachlor	2015-10	ug/L			< 0.0372	< 0.0364								
Heptachlor	2016-03	ug/L												
Heptachlor	2016-06	ug/L					< 0.0364							
Heptachlor	2016-08	ug/L					< 0.0337							
Heptachlor	2017-03	ug/L												
Heptachlor	2017-08	ug/L												
Heptachlor	2018-11	ug/L											< 0.036	
Heptachlor	2019-03	ug/L											< 0.0372	
Heptachlor	2020-08	ug/L	**0.00687 J**	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
Heptachlor Epoxide	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Heptachlor Epoxide	2008-09	ug/L										< 0.016		< 0.016
Heptachlor Epoxide	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Heptachlor Epoxide	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Heptachlor Epoxide	2015-06	ug/L						< 0.0348	< 0.032					
Heptachlor Epoxide	2015-09	ug/L	< 0.0356	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Heptachlor Epoxide	2015-10	ug/L			< 0.0372	< 0.0364								
Heptachlor Epoxide	2016-03	ug/L												
Heptachlor Epoxide	2016-06	ug/L					< 0.0364							
Heptachlor Epoxide	2016-08	ug/L					< 0.0337							
Heptachlor Epoxide	2018-11	ug/L											< 0.036	
Heptachlor Epoxide	2019-03	ug/L											< 0.0372	
Heptachlor Epoxide	2020-08	ug/L	< 0.0376	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
Hexachlorobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorobenzene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Hexachlorobenzene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Hexachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hexachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachlorobenzene	2015-06	ug/L						< 10.5	< 11.1					
Hexachlorobenzene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Hexachlorobenzene	2015-10	ug/L			< 10.3	< 10.5								
Hexachlorobenzene	2016-03	ug/L												
Hexachlorobenzene	2016-06	ug/L					< 11.4							
Hexachlorobenzene	2016-08	ug/L					< 11							
Hexachlorobenzene	2018-11	ug/L											< 11.6	
Hexachlorobenzene	2019-03	ug/L											< 12.2	
Hexachlorobenzene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Hexachlorobutadiene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Fluorotrichloromethane	2012-09	ug/L	< 4.00	< 4.00	< 5.00								
Fluorotrichloromethane	2013-03	ug/L	< 4	< 4	< 4.00								
Fluorotrichloromethane	2013-09	ug/L	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2013-11	ug/L					< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2014-03	ug/L	< 4.00	< 4.00	< 4.00		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2014-06	ug/L					< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2014-09	ug/L	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4		
Fluorotrichloromethane	2015-03	ug/L	< 4.00	< 4.00	< 4		< 4.00	< 4.00	< 4.00	< 4.00	< 4.00		
Fluorotrichloromethane	2015-06	ug/L											
Fluorotrichloromethane	2015-09	ug/L	< 4	< 4	< 4								
Fluorotrichloromethane	2015-10	ug/L				< 4	< 4	< 4		< 4	< 4		
Fluorotrichloromethane	2016-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Fluorotrichloromethane	2016-06	ug/L											
Fluorotrichloromethane	2016-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Fluorotrichloromethane	2017-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Fluorotrichloromethane	2017-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4		
Fluorotrichloromethane	2017-11	ug/L										< 4	< 4
Fluorotrichloromethane	2018-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4
Fluorotrichloromethane	2018-06	ug/L										< 4	< 4
Fluorotrichloromethane	2018-08	ug/L	< 4	< 4	< 4	< 4		< 4		< 4			
Fluorotrichloromethane	2018-09	ug/L									< 4	< 4	< 4
Fluorotrichloromethane	2018-11	ug/L										< 4	< 4
Fluorotrichloromethane	2019-03	ug/L	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4	< 4	
Fluorotrichloromethane	2019-04	ug/L											< 4
Fluorotrichloromethane	2019-08	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4
Fluorotrichloromethane	2020-03	ug/L	< 4	< 4	< 4	< 4	< 4	< 4		< 4	< 4	< 4	< 4
Fluorotrichloromethane	2020-04	ug/L											
Fluorotrichloromethane	2020-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Fluorotrichloromethane	2021-03	ug/L	< 4		< 4	< 4							< 4
Fluorotrichloromethane	2021-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Fluorotrichloromethane	2022-03	ug/L	< 4		< 4	< 4							< 4
Fluorotrichloromethane	2022-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Fluorotrichloromethane	2023-03	ug/L	< 4		< 4	< 4							< 4
Fluorotrichloromethane	2023-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Fluorotrichloromethane	2024-03	ug/L	< 4		< 4	< 4							< 4
Fluorotrichloromethane	2024-08	ug/L	< 4	< 4	< 4	< 4	< 4			< 4	< 4	< 4	< 4
Heptachlor	2008-08	ug/L	< 0.047	< 0.053									
Heptachlor	2008-09	ug/L			< 0.016								
Heptachlor	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Heptachlor	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Heptachlor	2012-03	ug/L			< 0.0320								
Heptachlor	2013-03	ug/L			< 0.0344								
Heptachlor	2014-03	ug/L			< 0.0330								
Heptachlor	2014-09	ug/L			< 0.032								
Heptachlor	2015-03	ug/L			< 0.0337								
Heptachlor	2015-06	ug/L											
Heptachlor	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Heptachlor	2015-10	ug/L				< 0.0364							
Heptachlor	2016-03	ug/L			< 0.034	< 0.0356							
Heptachlor	2016-06	ug/L											
Heptachlor	2016-08	ug/L			< 0.0356	< 0.0327							
Heptachlor	2017-03	ug/L			< 0.0337	< 0.0356							
Heptachlor	2017-08	ug/L			< 0.0337	< 0.0344							
Heptachlor	2018-11	ug/L											
Heptachlor	2019-03	ug/L											
Heptachlor	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Heptachlor Epoxide	2008-08	ug/L	< 0.047	< 0.053									
Heptachlor Epoxide	2008-09	ug/L			< 0.016								
Heptachlor Epoxide	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Heptachlor Epoxide	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Heptachlor Epoxide	2015-06	ug/L											
Heptachlor Epoxide	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Heptachlor Epoxide	2015-10	ug/L				< 0.0364							
Heptachlor Epoxide	2016-03	ug/L			< 0.034	< 0.0356							
Heptachlor Epoxide	2016-06	ug/L											
Heptachlor Epoxide	2016-08	ug/L			< 0.0356	< 0.0327							
Heptachlor Epoxide	2018-11	ug/L											
Heptachlor Epoxide	2019-03	ug/L											
Heptachlor Epoxide	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Hexachlorobenzene	2008-08	ug/L	< 10	< 10	< 10								
Hexachlorobenzene	2009-03	ug/L	< 10	< 10	< 10								
Hexachlorobenzene	2009-07	ug/L	< 10	< 10	< 10.0								
Hexachlorobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorobenzene	2015-06	ug/L											
Hexachlorobenzene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Hexachlorobenzene	2015-10	ug/L				< 10.6							
Hexachlorobenzene	2016-03	ug/L			< 10	< 10							
Hexachlorobenzene	2016-06	ug/L											
Hexachlorobenzene	2016-08	ug/L			< 11.1	< 11.5							
Hexachlorobenzene	2018-11	ug/L											
Hexachlorobenzene	2019-03	ug/L											
Hexachlorobenzene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Hexachlorobutadiene	2008-08	ug/L	< 10	< 10	< 10								
Hexachlorobutadiene	2009-03	ug/L	< 10	< 10	< 10								
Hexachlorobutadiene	2009-07	ug/L	< 10	< 10	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Hexachlorobutadiene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Hexachlorobutadiene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hexachlorobutadiene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachlorobutadiene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachlorobutadiene	2015-06	ug/L						< 10.5	< 11.1					
Hexachlorobutadiene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Hexachlorobutadiene	2015-10	ug/L			< 10.3	< 10.5								
Hexachlorobutadiene	2016-03	ug/L												
Hexachlorobutadiene	2016-06	ug/L					< 11.4							
Hexachlorobutadiene	2016-08	ug/L					< 11							
Hexachlorobutadiene	2018-11	ug/L											< 11.6	
Hexachlorobutadiene	2019-03	ug/L											< 12.2	
Hexachlorobutadiene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Hexachlorocyclopentadiene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorocyclopentadiene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorocyclopentadiene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Hexachlorocyclopentadiene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Hexachlorocyclopentadiene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hexachlorocyclopentadiene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachlorocyclopentadiene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachlorocyclopentadiene	2015-06	ug/L						< 21.1	< 22.2					
Hexachlorocyclopentadiene	2015-09	ug/L	< 22.2	< 22.5				< 22.2	< 20.4	< 22.5	< 22.2			
Hexachlorocyclopentadiene	2015-10	ug/L			< 20.6	< 21.1								
Hexachlorocyclopentadiene	2016-03	ug/L												
Hexachlorocyclopentadiene	2016-06	ug/L					< 22.7							
Hexachlorocyclopentadiene	2016-08	ug/L					< 22							
Hexachlorocyclopentadiene	2018-11	ug/L											< 11.6	
Hexachlorocyclopentadiene	2019-03	ug/L											< 12.2	
Hexachlorocyclopentadiene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Hexachloroethane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloroethane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloroethane	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Hexachloroethane	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Hexachloroethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hexachloroethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachloroethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachloroethane	2012-03	ug/L												
Hexachloroethane	2012-09	ug/L												
Hexachloroethane	2013-03	ug/L												
Hexachloroethane	2015-06	ug/L						< 10.5	< 11.1					
Hexachloroethane	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Hexachloroethane	2015-10	ug/L			< 10.3	< 10.5								
Hexachloroethane	2016-03	ug/L												
Hexachloroethane	2016-06	ug/L					< 11.4							
Hexachloroethane	2016-08	ug/L					< 11							
Hexachloroethane	2018-11	ug/L											< 11.6	
Hexachloroethane	2019-03	ug/L											< 12.2	
Hexachloroethane	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Hexachloropropene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloropropene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloropropene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Hexachloropropene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Hexachloropropene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hexachloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachloropropene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Hexachloropropene	2015-06	ug/L						< 10.5	< 11.1					
Hexachloropropene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Hexachloropropene	2015-10	ug/L			< 10.3	< 10.5								
Hexachloropropene	2016-03	ug/L												
Hexachloropropene	2016-06	ug/L					< 11.4							
Hexachloropropene	2016-08	ug/L					< 11							
Hexachloropropene	2018-11	ug/L											< 11.6	
Hexachloropropene	2019-03	ug/L											< 12.2	
Hexachloropropene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Indeno(1,2,3-cd)pyrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Indeno(1,2,3-cd)pyrene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Indeno(1,2,3-cd)pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Indeno(1,2,3-cd)pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Indeno(1,2,3-cd)pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Indeno(1,2,3-cd)pyrene	2012-03	ug/L												
Indeno(1,2,3-cd)pyrene	2012-09	ug/L												
Indeno(1,2,3-cd)pyrene	2013-03	ug/L												
Indeno(1,2,3-cd)pyrene	2015-06	ug/L						< 10.5	< 11.1					
Indeno(1,2,3-cd)pyrene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Indeno(1,2,3-cd)pyrene	2015-10	ug/L			< 10.3	< 10.5								
Indeno(1,2,3-cd)pyrene	2016-03	ug/L												
Indeno(1,2,3-cd)pyrene	2016-06	ug/L					< 11.4							
Indeno(1,2,3-cd)pyrene	2016-08	ug/L					< 11							
Indeno(1,2,3-cd)pyrene	2018-11	ug/L											< 11.6	
Indeno(1,2,3-cd)pyrene	2019-03	ug/L											< 12.2	
Indeno(1,2,3-cd)pyrene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Iodomethane	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2009-07	ug/L	< 10	< 20	< 10	< 10		< 10	< 20.0	< 20.0	< 10			
Iodomethane	2009-09	ug/L	< 20.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
Iodomethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Hexachlorobutadiene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorobutadiene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorobutadiene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorobutadiene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorobutadiene	2015-06	ug/L											
Hexachlorobutadiene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Hexachlorobutadiene	2015-10	ug/L				< 10.6							
Hexachlorobutadiene	2016-03	ug/L			< 10	< 10							
Hexachlorobutadiene	2016-06	ug/L											
Hexachlorobutadiene	2016-08	ug/L			< 11.1	< 11.5							
Hexachlorobutadiene	2018-11	ug/L											
Hexachlorobutadiene	2019-03	ug/L											
Hexachlorobutadiene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Hexachlorocyclopentadiene	2008-08	ug/L	< 10	< 10	< 10								
Hexachlorocyclopentadiene	2009-03	ug/L	< 10	< 10	< 10								
Hexachlorocyclopentadiene	2009-07	ug/L	< 10	< 10	< 10.0								
Hexachlorocyclopentadiene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorocyclopentadiene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorocyclopentadiene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorocyclopentadiene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachlorocyclopentadiene	2015-06	ug/L											
Hexachlorocyclopentadiene	2015-09	ug/L	< 21.7	< 21.1	< 22.5								
Hexachlorocyclopentadiene	2015-10	ug/L				< 21.3							
Hexachlorocyclopentadiene	2016-03	ug/L			< 20	< 20							
Hexachlorocyclopentadiene	2016-06	ug/L											
Hexachlorocyclopentadiene	2016-08	ug/L			< 22.2	< 23							
Hexachlorocyclopentadiene	2018-11	ug/L											
Hexachlorocyclopentadiene	2019-03	ug/L											
Hexachlorocyclopentadiene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Hexachloroethane	2008-08	ug/L	< 10	< 10	< 10								
Hexachloroethane	2009-03	ug/L	< 10	< 10	< 10								
Hexachloroethane	2009-07	ug/L	< 10	< 10	< 10.0								
Hexachloroethane	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachloroethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachloroethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachloroethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachloroethane	2012-03	ug/L			< 10.0								
Hexachloroethane	2012-09	ug/L			< 10.0								
Hexachloroethane	2013-03	ug/L			< 10.4								
Hexachloroethane	2015-06	ug/L											
Hexachloroethane	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Hexachloroethane	2015-10	ug/L				< 10.6							
Hexachloroethane	2016-03	ug/L			< 10	< 10							
Hexachloroethane	2016-06	ug/L											
Hexachloroethane	2016-08	ug/L			< 11.1	< 11.5							
Hexachloroethane	2018-11	ug/L											
Hexachloroethane	2019-03	ug/L											
Hexachloroethane	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Hexachloropropene	2008-08	ug/L	< 10	< 10	< 10								
Hexachloropropene	2009-03	ug/L	< 10	< 10	< 10								
Hexachloropropene	2009-07	ug/L	< 10	< 10	< 10.0								
Hexachloropropene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachloropropene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Hexachloropropene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Hexachloropropene	2015-06	ug/L											
Hexachloropropene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Hexachloropropene	2015-10	ug/L				< 10.6							
Hexachloropropene	2016-03	ug/L			< 10	< 10							
Hexachloropropene	2016-06	ug/L											
Hexachloropropene	2016-08	ug/L			< 11.1	< 11.5							
Hexachloropropene	2018-11	ug/L											
Hexachloropropene	2019-03	ug/L											
Hexachloropropene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Indeno(1,2,3-cd)pyrene	2008-08	ug/L	< 10	< 10	< 10								
Indeno(1,2,3-cd)pyrene	2009-03	ug/L	< 10	< 10	< 10								
Indeno(1,2,3-cd)pyrene	2009-07	ug/L	< 10	< 10	< 10.0								
Indeno(1,2,3-cd)pyrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Indeno(1,2,3-cd)pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Indeno(1,2,3-cd)pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Indeno(1,2,3-cd)pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Indeno(1,2,3-cd)pyrene	2012-03	ug/L			< 10.0								
Indeno(1,2,3-cd)pyrene	2012-09	ug/L			< 10.0								
Indeno(1,2,3-cd)pyrene	2013-03	ug/L			< 10.4								
Indeno(1,2,3-cd)pyrene	2015-06	ug/L											
Indeno(1,2,3-cd)pyrene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Indeno(1,2,3-cd)pyrene	2015-10	ug/L				< 10.6							
Indeno(1,2,3-cd)pyrene	2016-03	ug/L			< 10	< 10							
Indeno(1,2,3-cd)pyrene	2016-06	ug/L											
Indeno(1,2,3-cd)pyrene	2016-08	ug/L			< 11.1	< 11.5							
Indeno(1,2,3-cd)pyrene	2018-11	ug/L											
Indeno(1,2,3-cd)pyrene	2019-03	ug/L											
Indeno(1,2,3-cd)pyrene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Iodomethane	2008-08	ug/L	< 10	< 10	< 10								
Iodomethane	2009-03	ug/L	< 10	< 10	< 10								
Iodomethane	2009-07	ug/L	< 20	< 10									
Iodomethane	2009-09	ug/L	< 10.0	< 20.0	< 10.0								
Iodomethane	2010-03	ug/L	< 10.0	< 10.0	< 10.0								

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Iodomethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2011-09	ug/L	< 10.0	< 20.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 50.0
Iodomethane	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2013-03	ug/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
Iodomethane	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2013-11	ug/L												
Iodomethane	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Iodomethane	2014-06	ug/L												
Iodomethane	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2015-03	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0
Iodomethane	2015-06	ug/L						< 10	< 10					
Iodomethane	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
Iodomethane	2015-10	ug/L			< 10	< 10							< 10	< 10
Iodomethane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2016-06	ug/L					< 10							
Iodomethane	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2017-11	ug/L												
Iodomethane	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2018-06	ug/L												
Iodomethane	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Iodomethane	2018-09	ug/L							< 10	< 10				
Iodomethane	2018-11	ug/L											< 10	
Iodomethane	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2019-04	ug/L												
Iodomethane	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2020-03	ug/L		< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	2020-04	ug/L	< 10		< 10									
Iodomethane	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Iodomethane	2021-03	ug/L				< 10								
Iodomethane	2021-08	ug/L	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Iodomethane	2022-03	ug/L				< 10								
Iodomethane	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Iodomethane	2023-03	ug/L				< 10								
Iodomethane	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Iodomethane	2024-03	ug/L				< 10								
Iodomethane	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Isobutanol	2008-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutanol	2009-03	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutanol	2010-09	mg/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Isobutanol	2015-06	mg/L						< 10	< 10					
Isobutanol	2015-09	mg/L	< 10	< 10				< 10	< 10	< 10	< 10			
Isobutanol	2015-10	mg/L			< 10	< 10								
Isobutanol	2016-03	mg/L												
Isobutanol	2016-06	mg/L					< 10							
Isobutanol	2016-08	mg/L					< 10							
Isobutanol	2018-11	mg/L											< 10	
Isobutanol	2019-03	mg/L											< 10	
Isobutanol	2020-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Isodrin	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isodrin	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isodrin	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Isodrin	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Isodrin	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Isodrin	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Isodrin	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Isodrin	2015-06	ug/L						< 10.5	< 11.1					
Isodrin	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Isodrin	2015-10	ug/L			< 10.3	< 10.5								
Isodrin	2016-03	ug/L												
Isodrin	2016-06	ug/L					< 11.4							
Isodrin	2016-08	ug/L					< 11							
Isodrin	2018-11	ug/L											< 11.6	
Isodrin	2019-03	ug/L											< 12.2	
Isodrin	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Isophorone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isophorone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isophorone	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Isophorone	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Isophorone	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Isophorone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Isophorone	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Isophorone	2015-06	ug/L						< 10.5	< 11.1					
Isophorone	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Isophorone	2015-10	ug/L			< 10.3	< 10.5								
Isophorone	2016-03	ug/L												
Isophorone	2016-06	ug/L					< 11.4							
Isophorone	2016-08	ug/L					< 11							
Isophorone	2018-11	ug/L											< 11.6	
Isophorone	2019-03	ug/L											< 12.2	
Isophorone	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Isosafrole	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isosafrole	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isosafrole	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Isosafrole	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Iodomethane	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Iodomethane	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Iodomethane	2011-09	ug/L	< 50.0	< 20.0	< 20.0								
Iodomethane	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
Iodomethane	2012-09	ug/L	< 10.0	< 10.0	< 10.0								
Iodomethane	2013-03	ug/L	< 10	< 10	< 10.0								
Iodomethane	2013-09	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Iodomethane	2013-11	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Iodomethane	2014-03	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Iodomethane	2014-06	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Iodomethane	2014-09	ug/L	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
Iodomethane	2015-03	ug/L	< 10.0	< 10.0	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Iodomethane	2015-06	ug/L											
Iodomethane	2015-09	ug/L	< 10	< 10	< 10								
Iodomethane	2015-10	ug/L				< 10	< 10	< 10		< 10	< 10		
Iodomethane	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Iodomethane	2016-06	ug/L											
Iodomethane	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Iodomethane	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Iodomethane	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Iodomethane	2017-11	ug/L										< 10	< 10
Iodomethane	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Iodomethane	2018-06	ug/L										< 10	< 10
Iodomethane	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10		< 10			
Iodomethane	2018-09	ug/L									< 10	< 10	< 10
Iodomethane	2018-11	ug/L										< 10	< 10
Iodomethane	2019-03	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	
Iodomethane	2019-04	ug/L											< 10
Iodomethane	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Iodomethane	2020-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Iodomethane	2020-04	ug/L											
Iodomethane	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Iodomethane	2021-03	ug/L	< 10		< 10	< 10							< 10
Iodomethane	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Iodomethane	2022-03	ug/L	< 10		< 10	< 10							< 10
Iodomethane	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Iodomethane	2023-03	ug/L	< 10		< 10	< 10							< 10
Iodomethane	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Iodomethane	2024-03	ug/L	< 10		< 10	< 10							< 10
Iodomethane	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Isobutanol	2008-08	mg/L	< 10	< 10	< 10								
Isobutanol	2009-03	mg/L	< 10	< 10	< 10								
Isobutanol	2010-09	mg/L	< 10.0	< 10.0	< 10.0								
Isobutanol	2015-06	mg/L											
Isobutanol	2015-09	mg/L	< 10	< 10	< 10								
Isobutanol	2015-10	mg/L				< 10							
Isobutanol	2016-03	mg/L			< 10	< 10							
Isobutanol	2016-06	mg/L											
Isobutanol	2016-08	mg/L			< 10	< 10							
Isobutanol	2018-11	mg/L											
Isobutanol	2019-03	mg/L											
Isobutanol	2020-08	mg/L	< 10	< 10	< 10	< 10							
Isodrin	2008-08	ug/L	< 10	< 10	< 10								
Isodrin	2009-03	ug/L	< 10	< 10	< 10								
Isodrin	2009-07	ug/L	< 10	< 10	< 10.0								
Isodrin	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Isodrin	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Isodrin	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Isodrin	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Isodrin	2015-06	ug/L											
Isodrin	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Isodrin	2015-10	ug/L				< 10.6							
Isodrin	2016-03	ug/L			< 10	< 10							
Isodrin	2016-06	ug/L											
Isodrin	2016-08	ug/L			< 11.1	< 11.5							
Isodrin	2018-11	ug/L											
Isodrin	2019-03	ug/L											
Isodrin	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Isophorone	2008-08	ug/L	< 10	< 10	< 10								
Isophorone	2009-03	ug/L	< 10	< 10	< 10								
Isophorone	2009-07	ug/L	< 10	< 10	< 10.0								
Isophorone	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Isophorone	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Isophorone	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Isophorone	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Isophorone	2015-06	ug/L											
Isophorone	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Isophorone	2015-10	ug/L				< 10.6							
Isophorone	2016-03	ug/L			< 10	< 10							
Isophorone	2016-06	ug/L											
Isophorone	2016-08	ug/L			< 11.1	< 11.5							
Isophorone	2018-11	ug/L											
Isophorone	2019-03	ug/L											
Isophorone	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Isosafrole	2008-08	ug/L	< 10	< 10	< 10								
Isosafrole	2009-03	ug/L	< 10	< 10	< 10								
Isosafrole	2009-07	ug/L	< 10	< 10	< 10.0								
Isosafrole	2009-09	ug/L	< 10.0	< 10.0	< 10.0								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Isosafrole	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Isosafrole	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Isosafrole	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Isosafrole	2011-09	ug/L												
Isosafrole	2012-03	ug/L												
Isosafrole	2012-09	ug/L												
Isosafrole	2013-03	ug/L												
Isosafrole	2013-09	ug/L												
Isosafrole	2015-06	ug/L						< 10.5	< 11.1					
Isosafrole	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Isosafrole	2015-10	ug/L			< 10.3	< 10.5								
Isosafrole	2016-03	ug/L												
Isosafrole	2016-06	ug/L					< 11.4							
Isosafrole	2016-08	ug/L					< 11							
Isosafrole	2018-11	ug/L											< 11.6	
Isosafrole	2019-03	ug/L											< 12.2	
Isosafrole	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Kepone	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Kepone	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Kepone	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Kepone	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Kepone	2010-03	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Kepone	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Kepone	2011-03	ug/L	< 0.840	< 10.0	< 10.0	< 10.0				< 0.537				
Kepone	2011-09	ug/L												
Kepone	2012-03	ug/L												
Kepone	2012-09	ug/L												
Kepone	2013-03	ug/L												
Kepone	2013-09	ug/L												
Kepone	2015-06	ug/L						< 10.5	< 11.1					
Kepone	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Kepone	2015-10	ug/L			< 10.3	< 10.5								
Kepone	2016-03	ug/L												
Kepone	2016-06	ug/L					< 11.4							
Kepone	2016-08	ug/L					< 11							
Kepone	2018-11	ug/L											< 11.6	
Kepone	2019-03	ug/L											< 12.2	
Kepone	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Lead	2008-08	mg/L	< 0.01	< 0.01	< 0.01	**0.01**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	2009-03	mg/L	**0.01**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	2009-07	mg/L	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	2009-09	mg/L	< 0.00400	< 0.004		**0.0208**		< 0.004	< 0.004	< 0.004	< 0.004	< 0.004		
Lead	2010-03	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2010-09	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2011-03	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2011-09	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2012-03	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2012-09	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2013-03	mg/L	< 0.00400	< 0.00400	< 0.004 J	< 0.004 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.00400	< 0.004	< 0.004	< 0.004
Lead	2013-09	mg/L	**0.00104 J**	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2013-11	mg/L												
Lead	2014-03	mg/L	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400
Lead	2014-06	mg/L												
Lead	2014-09	mg/L	**0.000169 J**	< 0.0005	**0.000181 J**	**0.000347 J**	< 0.0005	**0.000131 J**	**0.000137 J**	**0.000344 J**	< 0.0005	< 0.0005	**0.000123 J**	< 0.0005
Lead	2015-03	mg/L	< 0.000500	**0.000529**	**0.000154 J**	**0.000169 J**	**0.000407 J**	< 0.0005	< 0.000500	**0.000133 J**	**0.000211 J**	**0.000914**	**0.000168 J**	**0.000110 J**
Lead	2015-06	mg/L						< 0.0005	< 0.0005					
Lead	2015-09	mg/L	**0.000106 J**	**0.000449 J**			< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.00015 J**		
Lead	2015-10	mg/L			< 0.0005	**0.000148 J**							< 0.0005	< 0.0005
Lead	2016-03	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2016-06	mg/L					**0.000662**							
Lead	2016-08	mg/L	**0.000213 J**	**0.000409 J**	**0.000237 J**	< 0.0005	**0.000995**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2017-03	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000395 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2017-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2017-11	mg/L												
Lead	2018-03	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000328 J**	< 0.0005
Lead	2018-06	mg/L												
Lead	2018-08	mg/L	< 0.0005	< 0.0005	< 0.0005	**0.000435 J**	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2018-09	mg/L							< 0.0005	< 0.0005				
Lead	2018-11	mg/L											< 0.0005	
Lead	2019-03	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2019-04	mg/L												
Lead	2019-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2020-03	mg/L		< 0.0005		< 0.0005	< 0.002	< 0.0005	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2020-04	mg/L	< 0.0005		< 0.0005									
Lead	2020-08	mg/L	< 0.0005	**0.000144 J**	< 0.0005	**0.000123 J**	< 0.0005	< 0.0005	**0.00011 J**	< 0.0005	< 0.0005			< 0.0005
Lead	2021-03	mg/L				< 0.0005								
Lead	2021-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005
Lead	2022-03	mg/L				< 0.0005								
Lead	2022-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000281 J**	< 0.0005	< 0.0005			< 0.0005
Lead	2023-03	mg/L				**0.000397 J**								
Lead	2023-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000427 J**	**0.0006**			< 0.0005
Lead	2024-03	mg/L				< 0.0005								
Lead	2024-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005
Lindane (BHC, Gamma-)	2008-08	ug/L	< 0.054	< 0.053	< 0.047	< 0.047	< 0.052	< 0.053	< 0.054	< 0.056	< 0.053		< 0.053	
Lindane (BHC, Gamma-)	2008-09	ug/L										< 0.016		< 0.016
Lindane (BHC, Gamma-)	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Lindane (BHC, Gamma-)	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Lindane (BHC, Gamma-)	2015-06	ug/L						< 0.0348	< 0.032					

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Isosafrole	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Isosafrole	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Isosafrole	2011-03	ug/L	< 10.0	< 10.0	**0.184 J**								
Isosafrole	2011-09	ug/L			**0.184 J**								
Isosafrole	2012-03	ug/L			< 10.0								
Isosafrole	2012-09	ug/L			< 10.0								
Isosafrole	2013-03	ug/L			< 10.4								
Isosafrole	2013-09	ug/L			< 10.2								
Isosafrole	2015-06	ug/L											
Isosafrole	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Isosafrole	2015-10	ug/L				< 10.6							
Isosafrole	2016-03	ug/L			< 10	< 10							
Isosafrole	2016-06	ug/L											
Isosafrole	2016-08	ug/L			< 11.1	< 11.5							
Isosafrole	2018-11	ug/L											
Isosafrole	2019-03	ug/L											
Isosafrole	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Kepone	2008-08	ug/L	< 10	< 10	< 10								
Kepone	2009-03	ug/L	< 10	< 10	< 10								
Kepone	2009-07	ug/L	< 10	< 10	< 10.0								
Kepone	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Kepone	2010-03	ug/L	< 20.0	< 20.0	< 20.0								
Kepone	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Kepone	2011-03	ug/L	**0.597 J**	< 10.0	< 10.0								
Kepone	2011-09	ug/L	< 10.0		< 10.0								
Kepone	2012-03	ug/L	< 10.0		< 10.0								
Kepone	2012-09	ug/L	< 10.0		< 10.0								
Kepone	2013-03	ug/L	< 10.5		< 10.4								
Kepone	2013-09	ug/L	< 10.1										
Kepone	2015-06	ug/L											
Kepone	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Kepone	2015-10	ug/L				< 10.6							
Kepone	2016-03	ug/L			< 10	< 10							
Kepone	2016-06	ug/L											
Kepone	2016-08	ug/L			< 11.1	< 11.5							
Kepone	2018-11	ug/L											
Kepone	2019-03	ug/L											
Kepone	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Lead	2008-08	mg/L	< 0.01	< 0.01	~~< 0.01~~								
Lead	2009-03	mg/L	< 0.01	< 0.01	~~< 0.01~~								
Lead	2009-07	mg/L	< 0.01	< 0.01	~~< 0.01~~								
Lead	2009-09	mg/L	< 0.00400	< 0.00400	< 0.00400								
Lead	2010-03	mg/L	< 0.00400	< 0.00400	< 0.00400								
Lead	2010-09	mg/L	< 0.00400	< 0.00400	< 0.00400								
Lead	2011-03	mg/L	< 0.00400	< 0.00400	< 0.00400								
Lead	2011-09	mg/L	< 0.00400	< 0.00400	< 0.00400								
Lead	2012-03	mg/L	< 0.00400	< 0.00400	< 0.00400								
Lead	2012-09	mg/L	< 0.00400	< 0.00400	< 0.00400								
Lead	2013-03	mg/L	< 0.004	< 0.004	< 0.00400								
Lead	2013-09	mg/L	< 0.00400	< 0.00400	< 0.00400	~~**0.00810**~~	< 0.00400	**0.00324 J**	**0.00145 J**	**0.00198 J**	**0.00109 J**		
Lead	2013-11	mg/L				~~**0.0208**~~	< 0.00400	**0.00144 J**	< 0.00400	< 0.00400	< 0.00400		
Lead	2014-03	mg/L	< 0.00400	< 0.00400	< 0.00400	~~**0.00276 J**~~	< 0.00400	< 0.00400	< 0.00400	< 0.00400	< 0.00400		
Lead	2014-06	mg/L				~~**0.00435**~~	**0.00148 J**	< 0.00400	**0.00139 J**	< 0.00400	< 0.00400		
Lead	2014-09	mg/L	**0.000214 J**	< 0.0005	**0.000117 J**	~~**0.00261**~~	**0.000375 J**	**0.000114 J**	**0.000499 J**	**0.000248 J**	**0.000213 J**		
Lead	2015-03	mg/L	< 0.000500	< 0.000500	< 0.0005	~~< 0.000500 J~~	**0.000870**	**0.000330 J**	**0.000558**	< 0.000500	**0.000129 J**		
Lead	2015-06	mg/L											
Lead	2015-09	mg/L	**0.00017 J**	< 0.0005	< 0.0005								
Lead	2015-10	mg/L				< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005		
Lead	2016-03	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005		
Lead	2016-06	mg/L											
Lead	2016-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005		
Lead	2017-03	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005		
Lead	2017-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005		
Lead	2017-11	mg/L										**0.000398 J**	< 0.0005
Lead	2018-03	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2018-06	mg/L										< 0.0005	< 0.0005
Lead	2018-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005		< 0.0005			
Lead	2018-09	mg/L									< 0.0005	< 0.0005	< 0.0005
Lead	2018-11	mg/L										< 0.0005	< 0.0005
Lead	2019-03	mg/L	**0.000843**	< 0.0005	< 0.0005	< 0.0005		< 0.0005	**0.000363 J**	< 0.0005	< 0.0005	< 0.0005	
Lead	2019-04	mg/L											< 0.0005
Lead	2019-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	**0.000274 J**	< 0.0005	< 0.0005
Lead	2020-03	mg/L	**0.000521**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2020-04	mg/L											
Lead	2020-08	mg/L	**0.000271 J**	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005	**0.000176 J**	< 0.0005	< 0.0005
Lead	2021-03	mg/L	**0.000699**		< 0.0005	< 0.0005							< 0.0005
Lead	2021-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005	**0.000469 J**	**0.000234 J**	< 0.0005
Lead	2022-03	mg/L	< 0.0005		< 0.0005	< 0.0005							< 0.0005
Lead	2022-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2023-03	mg/L	< 0.0005		< 0.0005	< 0.0005							< 0.0005
Lead	2023-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lead	2024-03	mg/L	< 0.0005		< 0.0005	< 0.0005							< 0.0005
Lead	2024-08	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lindane (BHC, Gamma-)	2008-08	ug/L	< 0.047	< 0.053									
Lindane (BHC, Gamma-)	2008-09	ug/L			< 0.016								
Lindane (BHC, Gamma-)	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Lindane (BHC, Gamma-)	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Lindane (BHC, Gamma-)	2015-06	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Lindane (BHC, Gamma-)	2015-09	ug/L	**0.00225 J**	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Lindane (BHC, Gamma-)	2015-10	ug/L			< 0.0372	< 0.0364								
Lindane (BHC, Gamma-)	2016-03	ug/L												
Lindane (BHC, Gamma-)	2016-06	ug/L					< 0.0364							
Lindane (BHC, Gamma-)	2016-08	ug/L					< 0.0337							
Lindane (BHC, Gamma-)	2018-11	ug/L											< 0.036	
Lindane (BHC, Gamma-)	2019-03	ug/L											< 0.0372	
Lindane (BHC, Gamma-)	2020-08	ug/L	**0.00411 J**	< 0.039	< 0.0376	**0.00369 J**	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
m/p-Cresol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m/p-Cresol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m/p-Cresol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
m/p-Cresol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
m/p-Cresol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
m/p-Cresol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
m/p-Cresol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
m/p-Cresol	2014-03	ug/L												
m/p-Cresol	2014-09	ug/L												
m/p-Cresol	2015-03	ug/L												
m/p-Cresol	2015-06	ug/L						< 10.5	< 11.1					
m/p-Cresol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	**0.312 J**	< 11.2	< 11.1			
m/p-Cresol	2015-10	ug/L			< 10.3	< 10.5								
m/p-Cresol	2016-03	ug/L												
m/p-Cresol	2016-06	ug/L					< 11.4							
m/p-Cresol	2016-08	ug/L					< 11							
m/p-Cresol	2017-03	ug/L												
m/p-Cresol	2017-08	ug/L												
m/p-Cresol	2018-11	ug/L											< 11.6	
m/p-Cresol	2019-03	ug/L											< 12.2	
m/p-Cresol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Mercury	2008-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	**0.0003**	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mercury	2009-03	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mercury	2010-03	mg/L						< 0.000200						
Mercury	2010-09	mg/L	< 0.000200		< 0.000200	< 0.000200				< 0.000200				
Mercury	2011-03	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200				< 0.000200				
Mercury	2013-09	mg/L						< 0.000200						
Mercury	2013-11	mg/L												
Mercury	2014-03	mg/L						< 0.000200						
Mercury	2014-06	mg/L												
Mercury	2014-09	mg/L						< 0.0002						
Mercury	2015-03	mg/L												
Mercury	2015-06	mg/L						< 0.0002	< 0.0002					
Mercury	2015-09	mg/L	< 0.0002	< 0.0002				< 0.0002	< 0.0002	< 0.0002	< 0.0002			
Mercury	2015-10	mg/L			< 0.0002	< 0.0002								
Mercury	2016-03	mg/L						< 0.0002						
Mercury	2016-06	mg/L					< 0.0002							
Mercury	2016-08	mg/L					< 0.0002	< 0.0002						
Mercury	2017-03	mg/L						< 0.0002						
Mercury	2017-08	mg/L						< 0.0002						
Mercury	2018-03	mg/L						< 0.0002						
Mercury	2018-08	mg/L						< 0.0002						
Mercury	2018-11	mg/L											< 0.0002	
Mercury	2019-03	mg/L						< 0.0002					< 0.0002	
Mercury	2019-08	mg/L						< 0.0002						
Mercury	2020-03	mg/L						< 0.0002						
Mercury	2020-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002			
Mercury	2021-08	mg/L						< 0.0002						
Mercury	2022-08	mg/L						< 0.0002						
Mercury	2023-08	mg/L						< 0.0002						
Mercury	2024-08	mg/L						< 0.0002						
Methacrylonitrile	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methacrylonitrile	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methacrylonitrile	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Methacrylonitrile	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Methacrylonitrile	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Methacrylonitrile	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
Methacrylonitrile	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00				< 1.00				
Methacrylonitrile	2012-09	ug/L		< 1.00										
Methacrylonitrile	2015-06	ug/L						< 10	< 10					
Methacrylonitrile	2015-09	ug/L	< 10	< 10				< 10	< 10	< 10	< 10			
Methacrylonitrile	2015-10	ug/L			< 10	< 10								
Methacrylonitrile	2016-03	ug/L												
Methacrylonitrile	2016-06	ug/L					< 10							
Methacrylonitrile	2016-08	ug/L					< 10							
Methacrylonitrile	2018-11	ug/L											< 10	
Methacrylonitrile	2019-03	ug/L											< 10	
Methacrylonitrile	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Methapyrilene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methapyrilene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methapyrilene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Methapyrilene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Methapyrilene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Methapyrilene	2010-09	ug/L	< 10.0	< 10.0	**0.295 J**	< 10.0				< 10.0				
Methapyrilene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Methapyrilene	2011-09	ug/L			< 10.0									
Methapyrilene	2012-03	ug/L			< 10.0									
Methapyrilene	2012-09	ug/L			< 10.0									
Methapyrilene	2013-03	ug/L			< 10.6									
Methapyrilene	2013-09	ug/L			< 10.8									

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Lindane (BHC, Gamma-)	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Lindane (BHC, Gamma-)	2015-10	ug/L				< 0.0364							
Lindane (BHC, Gamma-)	2016-03	ug/L			< 0.034	< 0.0356							
Lindane (BHC, Gamma-)	2016-06	ug/L											
Lindane (BHC, Gamma-)	2016-08	ug/L			< 0.0356	< 0.0327							
Lindane (BHC, Gamma-)	2018-11	ug/L											
Lindane (BHC, Gamma-)	2019-03	ug/L											
Lindane (BHC, Gamma-)	2020-08	ug/L	**0.00341 J**	**0.0089 J**	< 0.039	< 0.0376							
m/p-Cresol	2008-08	ug/L	< 10	< 10	< 10								
m/p-Cresol	2009-03	ug/L	< 10	< 10	< 10								
m/p-Cresol	2009-07	ug/L	< 10	< 10	< 10.0								
m/p-Cresol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
m/p-Cresol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
m/p-Cresol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
m/p-Cresol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
m/p-Cresol	2014-03	ug/L			< 10.2								
m/p-Cresol	2014-09	ug/L			< 10								
m/p-Cresol	2015-03	ug/L			< 10.6								
m/p-Cresol	2015-06	ug/L											
m/p-Cresol	2015-09	ug/L	< 10.9	< 10.5	**0.255 J**								
m/p-Cresol	2015-10	ug/L				< 10.6							
m/p-Cresol	2016-03	ug/L			< 10	< 10							
m/p-Cresol	2016-06	ug/L											
m/p-Cresol	2016-08	ug/L			< 11.1	< 11.5							
m/p-Cresol	2017-03	ug/L			< 10.2	< 11.4							
m/p-Cresol	2017-08	ug/L			< 10.6	< 11.1							
m/p-Cresol	2018-11	ug/L											
m/p-Cresol	2019-03	ug/L											
m/p-Cresol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Mercury	2008-08	mg/L	< 0.0002	< 0.0002	< 0.0002								
Mercury	2009-03	mg/L	< 0.0002	< 0.0002	< 0.0002								
Mercury	2010-03	mg/L			< 0.000200								
Mercury	2010-09	mg/L	< 0.000200	< 0.000200	< 0.000200								
Mercury	2011-03	mg/L	< 0.000200	< 0.000200	< 0.000200								
Mercury	2013-09	mg/L				~~< 0.000200~~							
Mercury	2013-11	mg/L				~~< 0.000200 J~~							
Mercury	2014-03	mg/L			< 0.000200	~~< 0.000200~~							
Mercury	2014-06	mg/L				~~< 0.000200~~							
Mercury	2014-09	mg/L			< 0.0002	~~< 0.0002~~							
Mercury	2015-03	mg/L			< 0.0002	~~< 0.000200~~							
Mercury	2015-06	mg/L											
Mercury	2015-09	mg/L	< 0.0002	< 0.0002	< 0.0002								
Mercury	2015-10	mg/L				< 0.0002							
Mercury	2016-03	mg/L			< 0.0002	< 0.0002							
Mercury	2016-06	mg/L											
Mercury	2016-08	mg/L			< 0.0002	< 0.0002							
Mercury	2017-03	mg/L			< 0.0002	< 0.0002							
Mercury	2017-08	mg/L			< 0.0002	< 0.0002							
Mercury	2018-03	mg/L			< 0.0002	< 0.0002							
Mercury	2018-08	mg/L			< 0.0002	< 0.0002							
Mercury	2018-11	mg/L											
Mercury	2019-03	mg/L			< 0.0002	< 0.0002							
Mercury	2019-08	mg/L			< 0.0002	< 0.0002							
Mercury	2020-03	mg/L			< 0.0002	< 0.0002							
Mercury	2020-08	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002							
Mercury	2021-08	mg/L			< 0.0002	< 0.0002							
Mercury	2022-08	mg/L			< 0.0002	< 0.0002							
Mercury	2023-08	mg/L			< 0.0002	< 0.0002							
Mercury	2024-08	mg/L			< 0.0002	< 0.0002							
Methacrylonitrile	2008-08	ug/L	< 1	< 1	< 1								
Methacrylonitrile	2009-03	ug/L	< 1	< 1	< 1								
Methacrylonitrile	2009-07	ug/L	< 1	< 1									
Methacrylonitrile	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Methacrylonitrile	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
Methacrylonitrile	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
Methacrylonitrile	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Methacrylonitrile	2012-09	ug/L											
Methacrylonitrile	2015-06	ug/L											
Methacrylonitrile	2015-09	ug/L	< 10	< 10	< 10								
Methacrylonitrile	2015-10	ug/L				< 10							
Methacrylonitrile	2016-03	ug/L			< 10	< 10							
Methacrylonitrile	2016-06	ug/L											
Methacrylonitrile	2016-08	ug/L			< 10	< 10							
Methacrylonitrile	2018-11	ug/L											
Methacrylonitrile	2019-03	ug/L											
Methacrylonitrile	2020-08	ug/L	< 10	< 10	< 10	< 10							
Methapyrilene	2008-08	ug/L	< 10	< 10	< 10								
Methapyrilene	2009-03	ug/L	< 10	< 10	< 10								
Methapyrilene	2009-07	ug/L	< 10	< 10	< 10.0								
Methapyrilene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Methapyrilene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Methapyrilene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Methapyrilene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Methapyrilene	2011-09	ug/L			< 10.0								
Methapyrilene	2012-03	ug/L			< 10.0								
Methapyrilene	2012-09	ug/L			< 10.0								
Methapyrilene	2013-03	ug/L			< 10.4								
Methapyrilene	2013-09	ug/L											

Table 14
Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Methapyrilene	2015-06	ug/L						< 10.5	< 11.1					
Methapyrilene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Methapyrilene	2015-10	ug/L			< 10.3	< 10.5								
Methapyrilene	2016-03	ug/L												
Methapyrilene	2016-06	ug/L					< 11.4							
Methapyrilene	2016-08	ug/L					< 11							
Methapyrilene	2018-11	ug/L											< 11.6	
Methapyrilene	2019-03	ug/L											< 12.2	
Methapyrilene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Methoxychlor	2008-08	ug/L	< 0.11	< 0.11	< 0.093	< 0.093	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11		< 0.11	
Methoxychlor	2008-09	ug/L										< 0.016		< 0.016
Methoxychlor	2009-03	ug/L	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Methoxychlor	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320	< 0.0320				< 0.0320				
Methoxychlor	2015-06	ug/L						< 0.0348	**0.00593 J**					
Methoxychlor	2015-09	ug/L	**0.00665 J**	< 0.0356				< 0.036	< 0.0327	< 0.0356	< 0.0352			
Methoxychlor	2015-10	ug/L			< 0.0372	< 0.0364								
Methoxychlor	2016-03	ug/L												
Methoxychlor	2016-06	ug/L					< 0.0364							
Methoxychlor	2016-08	ug/L					< 0.0337							
Methoxychlor	2018-11	ug/L											< 0.036	
Methoxychlor	2019-03	ug/L											< 0.0372	
Methoxychlor	2020-08	ug/L	**0.00649 J**	< 0.039	< 0.0376	< 0.0376	< 0.0376	< 0.0376	< 0.039	< 0.0376	< 0.039			
Methyl Methacrylate	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl Methacrylate	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl Methacrylate	2009-07	ug/L	< 2	< 2	< 2	< 2		< 2	< 2.00	< 2.00	< 2			
Methyl Methacrylate	2009-09	ug/L	< 2.00	< 2	< 2.00	< 10.0		< 2	< 2	< 2	< 2			
Methyl Methacrylate	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 5.00
Methyl Methacrylate	2010-09	ug/L	< 20.0	< 20.0	< 20.0	< 20.0				< 20.0				
Methyl Methacrylate	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00				< 2.00				
Methyl Methacrylate	2012-09	ug/L		< 2.00										
Methyl Methacrylate	2015-06	ug/L						< 2	< 2					
Methyl Methacrylate	2015-09	ug/L	< 2	< 2				< 2	< 2	< 2	< 2			
Methyl Methacrylate	2015-10	ug/L			< 2	< 2								
Methyl Methacrylate	2016-03	ug/L												
Methyl Methacrylate	2016-06	ug/L					< 2							
Methyl Methacrylate	2016-08	ug/L					< 2							
Methyl Methacrylate	2018-11	ug/L											< 2	
Methyl Methacrylate	2019-03	ug/L											< 2	
Methyl Methacrylate	2020-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			
Methyl Methanesulfonate	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl Methanesulfonate	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl Methanesulfonate	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Methyl Methanesulfonate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Methyl Methanesulfonate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Methyl Methanesulfonate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Methyl Methanesulfonate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Methyl Methanesulfonate	2012-03	ug/L												
Methyl Methanesulfonate	2012-09	ug/L												
Methyl Methanesulfonate	2013-03	ug/L												
Methyl Methanesulfonate	2015-06	ug/L						< 10.5	< 11.1					
Methyl Methanesulfonate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Methyl Methanesulfonate	2015-10	ug/L			< 10.3	< 10.5								
Methyl Methanesulfonate	2016-03	ug/L												
Methyl Methanesulfonate	2016-06	ug/L					< 11.4							
Methyl Methanesulfonate	2016-08	ug/L					< 11							
Methyl Methanesulfonate	2018-11	ug/L											< 11.6	
Methyl Methanesulfonate	2019-03	ug/L											< 12.2	
Methyl Methanesulfonate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Methyl Parathion	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl Parathion	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl Parathion	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Methyl Parathion	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Methyl Parathion	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Methyl Parathion	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Methyl Parathion	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Methyl Parathion	2011-09	ug/L		**0.188 J**										
Methyl Parathion	2012-03	ug/L		< 10.0										
Methyl Parathion	2012-09	ug/L		< 10.0										
Methyl Parathion	2013-03	ug/L		< 10.2										
Methyl Parathion	2013-09	ug/L		< 11.0										
Methyl Parathion	2015-06	ug/L						< 10.5	< 11.1					
Methyl Parathion	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Methyl Parathion	2015-10	ug/L			< 10.3	< 10.5								
Methyl Parathion	2016-03	ug/L												
Methyl Parathion	2016-06	ug/L					< 11.4							
Methyl Parathion	2016-08	ug/L					< 11							
Methyl Parathion	2018-11	ug/L											< 11.6	
Methyl Parathion	2019-03	ug/L											< 12.2	
Methyl Parathion	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Methylene Chloride	2008-08	ug/L	< 5	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	2009-03	ug/L	< 5	< 5	**6.01**	< 5	< 5	< 5	**5.8**	< 5	**8.5**	< 5	< 5	< 5
Methylene Chloride	2009-07	ug/L	< 5	< 5	< 5	< 5		< 5	< 5.00	< 5.00	< 5			
Methylene Chloride	2009-09	ug/L	< 5.00	< 5	< 5.00	< 25.0		< 5	< 5	< 5	< 5			
Methylene Chloride	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Methapyrilene	2015-06	ug/L											
Methapyrilene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Methapyrilene	2015-10	ug/L				< 10.6							
Methapyrilene	2016-03	ug/L			< 10	< 10							
Methapyrilene	2016-06	ug/L											
Methapyrilene	2016-08	ug/L			< 11.1	< 11.5							
Methapyrilene	2018-11	ug/L											
Methapyrilene	2019-03	ug/L											
Methapyrilene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Methoxychlor	2008-08	ug/L	< 0.093	< 0.11									
Methoxychlor	2008-09	ug/L			< 0.016								
Methoxychlor	2009-03	ug/L	< 0.032	< 0.032	< 0.032								
Methoxychlor	2010-09	ug/L	< 0.0320	< 0.0320	< 0.0320								
Methoxychlor	2015-06	ug/L											
Methoxychlor	2015-09	ug/L	< 0.0344	< 0.0352	< 0.0352								
Methoxychlor	2015-10	ug/L				**0.00633 J**							
Methoxychlor	2016-03	ug/L			< 0.034	< 0.0356							
Methoxychlor	2016-06	ug/L											
Methoxychlor	2016-08	ug/L			< 0.0356	< 0.0327							
Methoxychlor	2018-11	ug/L											
Methoxychlor	2019-03	ug/L											
Methoxychlor	2020-08	ug/L	< 0.0376	< 0.039	< 0.039	< 0.0376							
Methyl Methacrylate	2008-08	ug/L	< 2	< 2	< 2								
Methyl Methacrylate	2009-03	ug/L	< 2	< 2	< 2								
Methyl Methacrylate	2009-07	ug/L	< 2	< 2									
Methyl Methacrylate	2009-09	ug/L	< 2.00	< 2.00	< 2.00								
Methyl Methacrylate	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
Methyl Methacrylate	2010-09	ug/L	< 20.0	< 20.0	< 20.0								
Methyl Methacrylate	2011-03	ug/L	< 2.00	< 2.00	< 2.00								
Methyl Methacrylate	2012-09	ug/L											
Methyl Methacrylate	2015-06	ug/L											
Methyl Methacrylate	2015-09	ug/L	< 2	< 2	< 2								
Methyl Methacrylate	2015-10	ug/L				< 2							
Methyl Methacrylate	2016-03	ug/L			< 2	< 2							
Methyl Methacrylate	2016-06	ug/L											
Methyl Methacrylate	2016-08	ug/L			< 2	< 2							
Methyl Methacrylate	2018-11	ug/L											
Methyl Methacrylate	2019-03	ug/L											
Methyl Methacrylate	2020-08	ug/L	< 2	< 2	< 2	< 2							
Methyl Methanesulfonate	2008-08	ug/L	< 10	< 10	< 10								
Methyl Methanesulfonate	2009-03	ug/L	< 10	< 10	< 10								
Methyl Methanesulfonate	2009-07	ug/L	< 10	< 10	< 10.0								
Methyl Methanesulfonate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Methyl Methanesulfonate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Methyl Methanesulfonate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Methyl Methanesulfonate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Methyl Methanesulfonate	2012-03	ug/L			< 10.0								
Methyl Methanesulfonate	2012-09	ug/L			< 10.0								
Methyl Methanesulfonate	2013-03	ug/L			< 10.4								
Methyl Methanesulfonate	2015-06	ug/L											
Methyl Methanesulfonate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Methyl Methanesulfonate	2015-10	ug/L				< 10.6							
Methyl Methanesulfonate	2016-03	ug/L			< 10	< 10							
Methyl Methanesulfonate	2016-06	ug/L											
Methyl Methanesulfonate	2016-08	ug/L			< 11.1	< 11.5							
Methyl Methanesulfonate	2018-11	ug/L											
Methyl Methanesulfonate	2019-03	ug/L											
Methyl Methanesulfonate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Methyl Parathion	2008-08	ug/L	< 10	< 10	< 10								
Methyl Parathion	2009-03	ug/L	< 10	< 10	< 10								
Methyl Parathion	2009-07	ug/L	< 10	< 10	< 10.0								
Methyl Parathion	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Methyl Parathion	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Methyl Parathion	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Methyl Parathion	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Methyl Parathion	2011-09	ug/L			< 10.0								
Methyl Parathion	2012-03	ug/L			< 10.0								
Methyl Parathion	2012-09	ug/L			< 10.0								
Methyl Parathion	2013-03	ug/L			< 10.4								
Methyl Parathion	2013-09	ug/L											
Methyl Parathion	2015-06	ug/L											
Methyl Parathion	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Methyl Parathion	2015-10	ug/L				< 10.6							
Methyl Parathion	2016-03	ug/L			< 10	< 10							
Methyl Parathion	2016-06	ug/L											
Methyl Parathion	2016-08	ug/L			< 11.1	< 11.5							
Methyl Parathion	2018-11	ug/L											
Methyl Parathion	2019-03	ug/L											
Methyl Parathion	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Methylene Chloride	2008-08	ug/L	< 5	< 5	< 10								
Methylene Chloride	2009-03	ug/L	< 5	**7.56**	< 5								
Methylene Chloride	2009-07	ug/L	< 5	< 5									
Methylene Chloride	2009-09	ug/L	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2010-03	ug/L	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2010-09	ug/L	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2011-03	ug/L	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2011-09	ug/L	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2012-03	ug/L	< 5.00	< 5.00	< 5.00								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Methylene Chloride	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	2013-03	ug/L	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5	< 5	< 5
Methylene Chloride	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	**0.185 J**
Methylene Chloride	2013-11	ug/L												
Methylene Chloride	2014-03	ug/L	< 5.00	< 5.00	< 5.00	**0.213 J**	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00 J	< 5.00	< 5.00 J	< 5.00 J
Methylene Chloride	2014-06	ug/L												
Methylene Chloride	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5 J	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2015-03	ug/L	< 5.00	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00 J	< 5.00 J	< 5	< 5	< 5.00	< 5.00
Methylene Chloride	2015-06	ug/L						< 5 J	< 5 J					
Methylene Chloride	2015-09	ug/L	< 5 J	< 5 J			< 5	< 5	< 5	< 5	< 5 J	< 5		
Methylene Chloride	2015-10	ug/L			< 5 J	< 5 J							< 5	< 5
Methylene Chloride	2016-03	ug/L	< 5	< 5	< 5	< 5 J	< 5 J	< 5 J	< 5 J	< 5 J	< 5	< 5	< 5	< 5
Methylene Chloride	2016-06	ug/L					< 5							
Methylene Chloride	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2017-11	ug/L												
Methylene Chloride	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2018-06	ug/L												
Methylene Chloride	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Methylene Chloride	2018-09	ug/L							< 5	< 5				
Methylene Chloride	2018-11	ug/L											< 5	
Methylene Chloride	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2019-04	ug/L												
Methylene Chloride	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2020-03	ug/L		< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	2020-04	ug/L	< 5		< 5									
Methylene Chloride	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Methylene Chloride	2021-03	ug/L				< 5								
Methylene Chloride	2021-08	ug/L	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Methylene Chloride	2022-03	ug/L				< 5								
Methylene Chloride	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Methylene Chloride	2023-03	ug/L				< 5								
Methylene Chloride	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Methylene Chloride	2024-03	ug/L				< 5								
Methylene Chloride	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
Naphthalene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	2009-07	ug/L	< 5	< 5	< 5	< 5		< 5	< 5.00	< 5.00	< 5			
Naphthalene	2009-09	ug/L	< 5.00	< 5	< 5.00	< 25.0		< 5	< 5	< 5	< 5			
Naphthalene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Naphthalene	2010-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00				< 5.00				
Naphthalene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00				< 5.00				
Naphthalene	2012-09	ug/L		< 5.00										
Naphthalene	2015-06	ug/L						< 5	< 5					
Naphthalene	2015-09	ug/L	< 5	< 5				< 5	< 5	< 5	< 5			
Naphthalene	2015-10	ug/L			< 5	< 5								
Naphthalene	2016-03	ug/L												
Naphthalene	2016-06	ug/L					< 5							
Naphthalene	2016-08	ug/L					< 5							
Naphthalene	2018-11	ug/L											< 5	
Naphthalene	2019-03	ug/L											< 5	
Naphthalene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			
Nickel	2008-08	mg/L	~~< 0.05~~	~~< 0.05~~	< 0.05	~~0.105~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	2009-03	mg/L	~~< 0.05~~	~~< 0.05~~	< 0.05	~~0.131~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	2009-07	mg/L	~~< 0.05~~	~~< 0.05~~	< 0.05	~~0.092~~		~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	2009-09	mg/L	~~< 0.0500~~	~~< 0.05~~		~~0.114~~		~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	< 0.05	< 0.05		
Nickel	2010-03	mg/L	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	~~0.149~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2010-09	mg/L	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	~~0.0789~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2011-03	mg/L	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	~~0.0615~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2011-09	mg/L	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	~~0.0547~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2012-03	mg/L	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	~~0.0649~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2012-09	mg/L	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2013-03	mg/L	~~**0.0192 J**~~	~~**0.0222 J**~~	< 0.05	~~**0.115**~~	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~	~~**0.04 J**~~	< 0.0500	< 0.05	< 0.05	< 0.05
Nickel	2013-09	mg/L	~~**0.0235 J**~~	~~< 0.0500 J~~	< 0.0500	~~**0.0241 J**~~	~~**0.00769 J**~~	~~**0.0125 J**~~	~~**0.0124 J**~~	~~**0.0232 J**~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2013-11	mg/L												
Nickel	2014-03	mg/L	~~**0.0268 J**~~	~~**0.0293 J**~~	**0.00302 J**	~~**0.0253 J**~~	~~**0.00301 J**~~	~~**0.00909 J**~~	~~**0.00928 J**~~	~~**0.0397 J**~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Nickel	2014-06	mg/L												
Nickel	2014-09	mg/L	**0.0229**	**0.0112**	**0.00243 J**	**0.0369**	**0.00305 J**	**0.00832**	**0.0161**	**0.0291**	< 0.005	< 0.005	**0.000689 J**	< 0.005
Nickel	2015-03	mg/L	**0.0255**	**0.0285**	**0.00168 J**	**0.0577**	**0.00461 J**	**0.0119**	**0.00724**	**0.0268**	< 0.005	< 0.005	**0.00122 J**	< 0.00500
Nickel	2015-06	mg/L						**0.011**	**0.0075**					
Nickel	2015-09	mg/L	**0.027**	**0.0209**			**0.00688**	**0.0091**	**0.0074**	**0.0254**	< 0.005	< 0.005		
Nickel	2015-10	mg/L			**0.00394 J**	**0.0178**							**0.000672 J**	**0.00131 J**
Nickel	2016-03	mg/L	**0.0274**	**0.0294**	**0.00321 J**	**0.0156**	**0.00559**	**0.016**	**0.00738**	**0.0376**	< 0.005	< 0.005	< 0.005	< 0.005
Nickel	2016-06	mg/L					**0.00626**							
Nickel	2016-08	mg/L	**0.0266**	**0.0201**	**0.00292 J**	**0.0186**	**0.00422 J**	**0.00815**	**0.00739**	**0.0247**	< 0.005	< 0.005	< 0.005	< 0.005
Nickel	2017-03	mg/L	**0.0259**	**0.0175**	**0.00429 J**	**0.0156**	**0.00615**	**0.00946**	**0.00497 J**	**0.0405**	< 0.005	< 0.005	**0.00128 J**	< 0.005
Nickel	2017-08	mg/L	**0.0256**	**0.0182**	**0.00334 J**	**0.0152**	**0.00467 J**	**0.011**	**0.00732**	**0.0275**	< 0.005	< 0.005	**0.00128 J**	< 0.005
Nickel	2017-11	mg/L												
Nickel	2018-03	mg/L	**0.0276**	**0.029**	**0.00215 J**	**0.0158**	**0.00615**	**0.012**	**0.00884**	**0.0305**	< 0.005	< 0.005	< 0.005	< 0.005
Nickel	2018-06	mg/L												
Nickel	2018-08	mg/L	**0.025**	**0.0208**	**0.0039 J**	**0.011**	**0.00754**	**0.0125**			< 0.005	< 0.005	**0.00133 J**	< 0.005
Nickel	2018-09	mg/L							**0.00907**	**0.0301**				
Nickel	2018-11	mg/L											**0.00123 J**	
Nickel	2019-03	mg/L	**0.0274**	**0.0169**	**0.00354 J**	**0.0255**	**0.00831**	**0.0119**	**0.0134**	**0.0447**	< 0.005	< 0.005	< 0.005	< 0.005
Nickel	2019-04	mg/L												
Nickel	2019-08	mg/L	**0.029**	**0.0185**	**0.00404 J**	**0.0179**	**0.0066**	**0.0114**	**0.00942**	**0.0316**	< 0.005	< 0.005	< 0.005	< 0.005
Nickel	2020-03	mg/L		**0.0283**		**0.0117**	< 0.02	**0.0102**	**0.0079 J**	**0.0435**	< 0.005	< 0.005	< 0.005	< 0.005

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Methylene Chloride	2012-09	ug/L	< 5.00	< 5.00	< 5.00								
Methylene Chloride	2013-03	ug/L	< 5	< 5	< 5.00								
Methylene Chloride	2013-09	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	**0.282 J**	< 5.00	< 5.00	< 5.00		
Methylene Chloride	2013-11	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Methylene Chloride	2014-03	ug/L	< 5.00 J	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
Methylene Chloride	2014-06	ug/L					< 5.00 J	< 5.00 J	< 5.00 J	< 5.00 J	< 5.00 J		
Methylene Chloride	2014-09	ug/L	< 5	< 5	< 5		**0.279 J**	< 5	< 5	< 5	< 5		
Methylene Chloride	2015-03	ug/L	< 5.00	< 5.00	< 5		< 5.00	< 5.00 J	< 5.00	< 5.00	< 5.00 J		
Methylene Chloride	2015-06	ug/L											
Methylene Chloride	2015-09	ug/L	< 5 J	< 5	< 5								
Methylene Chloride	2015-10	ug/L				< 5	< 5	< 5		< 5 J	< 5		
Methylene Chloride	2016-03	ug/L	< 5	< 5	< 5	< 5 J	< 5 J	< 5		< 5	< 5		
Methylene Chloride	2016-06	ug/L											
Methylene Chloride	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Methylene Chloride	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Methylene Chloride	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
Methylene Chloride	2017-11	ug/L										**0.197 J**	< 5
Methylene Chloride	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Methylene Chloride	2018-06	ug/L										< 5	< 5
Methylene Chloride	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5		< 5			
Methylene Chloride	2018-09	ug/L									< 5	< 5	< 5
Methylene Chloride	2018-11	ug/L										< 5	< 5
Methylene Chloride	2019-03	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	
Methylene Chloride	2019-04	ug/L											< 5
Methylene Chloride	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Methylene Chloride	2020-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
Methylene Chloride	2020-04	ug/L											
Methylene Chloride	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Methylene Chloride	2021-03	ug/L	< 5		< 5	< 5							< 5
Methylene Chloride	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Methylene Chloride	2022-03	ug/L	< 5		< 5	< 5							< 5
Methylene Chloride	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Methylene Chloride	2023-03	ug/L	< 5		< 5	< 5							< 5
Methylene Chloride	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Methylene Chloride	2024-03	ug/L	< 5		< 5	< 5							< 5
Methylene Chloride	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
Naphthalene	2008-08	ug/L	< 5	< 5	< 5								
Naphthalene	2009-03	ug/L	< 5	< 5	< 5								
Naphthalene	2009-07	ug/L	< 5	< 5									
Naphthalene	2009-09	ug/L	< 5.00	< 5.00	< 5.00								
Naphthalene	2010-03	ug/L	< 5.00	< 5.00	< 5.00								
Naphthalene	2010-09	ug/L	< 5.00	< 5.00	< 5.00								
Naphthalene	2011-03	ug/L	< 5.00	< 5.00	< 5.00								
Naphthalene	2012-09	ug/L											
Naphthalene	2015-06	ug/L											
Naphthalene	2015-09	ug/L	< 5	< 5	< 5								
Naphthalene	2015-10	ug/L				< 5							
Naphthalene	2016-03	ug/L			< 5	< 5							
Naphthalene	2016-06	ug/L											
Naphthalene	2016-08	ug/L			< 5	< 5							
Naphthalene	2018-11	ug/L											
Naphthalene	2019-03	ug/L											
Naphthalene	2020-08	ug/L	< 5	< 5	< 5	< 5							
Nickel	2008-08	mg/L	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~								
Nickel	2009-03	mg/L	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~								
Nickel	2009-07	mg/L	~~< 0.05~~	~~< 0.05~~	~~< 0.05~~								
Nickel	2009-09	mg/L	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~								
Nickel	2010-03	mg/L	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~								
Nickel	2010-09	mg/L	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~								
Nickel	2011-03	mg/L	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~								
Nickel	2011-09	mg/L	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~								
Nickel	2012-03	mg/L	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~								
Nickel	2012-09	mg/L	~~< 0.0500~~	~~< 0.0500~~	~~< 0.0500~~								
Nickel	2013-03	mg/L	~~< 0.05~~	~~**0.00233 J**~~	~~< 0.0500~~								
Nickel	2013-09	mg/L	~~< 0.0500 J~~	~~< 0.0500 J~~	~~< 0.0500~~	~~< 0.0500~~	< 0.0500	< 0.0500	< 0.0500	**0.00225 J**	**0.00901 J**		
Nickel	2013-11	mg/L				~~**0.0128 J**~~	< 0.0500	< 0.0500	**0.00519 J**	**0.00978 J**	**0.0123 J**		
Nickel	2014-03	mg/L	~~**0.00519 J**~~	~~**0.00871 J**~~	~~< 0.0500 J~~	~~**0.00205 J**~~	< 0.0500 J	< 0.0500 J	< 0.0500	**0.0102 J**	< 0.0500 J		
Nickel	2014-06	mg/L				~~< 0.0500~~	< 0.0500	< 0.0500	< 0.0500	**0.00918 J**	**0.00805 J**		
Nickel	2014-09	mg/L	**0.00447 J**	**0.00653**	**0.00377 J**	~~**0.00377 J**~~	**0.00187 J**	< 0.005	**0.00194 J**	**0.0104**	**0.0116**		
Nickel	2015-03	mg/L	**0.00663**	**0.00703**	**0.000748 J**	~~**0.00114 J**~~	**0.00248 J**	**0.00356 J**	**0.00345 J**	**0.0111**	**0.0104**		
Nickel	2015-06	mg/L											
Nickel	2015-09	mg/L	**0.0078**	**0.00904**	< 0.005 J								
Nickel	2015-10	mg/L				**0.00328 J**	**0.00253 J**	**0.00248 J**		**0.0119**	**0.0108**		
Nickel	2016-03	mg/L	**0.00725**	**0.00632**	< 0.005	**0.00259 J**	**0.00207 J**	**0.00361 J**		**0.0114**	**0.00946**		
Nickel	2016-06	mg/L											
Nickel	2016-08	mg/L	**0.0068**	**0.00693**	< 0.005	**0.00276 J**	**0.00207 J**	**0.00316 J**		**0.0107**	**0.0104**		
Nickel	2017-03	mg/L	**0.00647**	**0.00693**	< 0.005	**0.00735**	**0.00246 J**	**0.00633**		**0.0123**	**0.0155**		
Nickel	2017-08	mg/L	**0.00736**	**0.00881**	< 0.005	**0.00304 J**	**0.00185 J**	**0.00378 J**		**0.0108**	**0.0174**		
Nickel	2017-11	mg/L										**0.00632**	**0.0468**
Nickel	2018-03	mg/L	**0.0076**	**0.00726**	< 0.005	**0.00308 J**	**0.00207 J**	< 0.005		**0.0105**	**0.0128**	**0.00578**	**0.0394**
Nickel	2018-06	mg/L										**0.00849**	**0.0463**
Nickel	2018-08	mg/L	**0.00684**	**0.0106**	< 0.005	**0.00199 J**		**0.00429 J**		**0.0109**			
Nickel	2018-09	mg/L									**0.0124**	**0.00918**	**0.041**
Nickel	2018-11	mg/L										**0.0104**	**0.0369**
Nickel	2019-03	mg/L	**0.00916**	**0.0086**	< 0.005	**0.00389 J**		**0.00422 J**	**0.00208 J**	**0.0115**	**0.0116**	**0.0105**	
Nickel	2019-04	mg/L											**0.0324**
Nickel	2019-08	mg/L	**0.00806**	**0.0107**	< 0.005	**0.00253 J**	**0.00241 J**	**0.00462 J**		**0.0139**	**0.0206**	**0.00955**	**0.0347**
Nickel	2020-03	mg/L	**0.00818**	**0.0111**	< 0.005	**0.00247 J**	< 0.005	**0.00358 J**		**0.0117**	**0.0138**	**0.00893**	**0.0387**

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Nickel	2020-04	mg/L	**0.0231**		**0.00302 J**									
Nickel	2020-08	mg/L	**0.0312**	**0.0177**	**0.00432 J**	**0.0129**	**0.00957**	**0.011**	**0.0109**	**0.036**	< 0.005			< 0.005
Nickel	2021-03	mg/L				**0.0114**								
Nickel	2021-08	mg/L	**0.027**	**0.0287**	**0.00429 J**	**0.0136**	**0.00901**	**0.00937**	**0.0105**	**0.0343**	< 0.005			< 0.005
Nickel	2022-03	mg/L				**0.024**								
Nickel	2022-08	mg/L	**0.0282**	**0.0159**	**0.0043 J**	**0.0134**	**0.0121**	**0.00815**	**0.0131**	**0.0301**	< 0.005			< 0.005
Nickel	2023-03	mg/L				**0.0156**								
Nickel	2023-08	mg/L	**0.0318**	**0.0217**	**0.00389 J**	**0.0171**	**0.0104**	**0.00671**	**0.015**	**0.0314**	< 0.005			< 0.005
Nickel	2024-03	mg/L				**0.0217**								
Nickel	2024-08	mg/L	**0.0286**	**0.0173**	**0.00441 J**	**0.0148**	**0.0136**	**0.00643**	**0.0144**	**0.0304**	< 0.005			< 0.005
Nitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nitrobenzene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Nitrobenzene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Nitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Nitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Nitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Nitrobenzene	2012-03	ug/L												
Nitrobenzene	2012-09	ug/L												
Nitrobenzene	2013-03	ug/L												
Nitrobenzene	2015-06	ug/L						< 10.5	< 11.1					
Nitrobenzene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Nitrobenzene	2015-10	ug/L			< 10.3	< 10.5								
Nitrobenzene	2016-03	ug/L												
Nitrobenzene	2016-06	ug/L					< 11.4							
Nitrobenzene	2016-08	ug/L					< 11							
Nitrobenzene	2018-11	ug/L											< 11.6	
Nitrobenzene	2019-03	ug/L											< 12.2	
Nitrobenzene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
N-Nitrosodiethylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodiethylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodiethylamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
N-Nitrosodiethylamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
N-Nitrosodiethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
N-Nitrosodiethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodiethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodiethylamine	2015-06	ug/L						< 10.5	< 11.1					
N-Nitrosodiethylamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
N-Nitrosodiethylamine	2015-10	ug/L			< 10.3	< 10.5								
N-Nitrosodiethylamine	2016-03	ug/L												
N-Nitrosodiethylamine	2016-06	ug/L					< 11.4							
N-Nitrosodiethylamine	2016-08	ug/L					< 11							
N-Nitrosodiethylamine	2018-11	ug/L											< 11.6	
N-Nitrosodiethylamine	2019-03	ug/L											< 12.2	
N-Nitrosodiethylamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
N-Nitrosodimethylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodimethylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodimethylamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
N-Nitrosodimethylamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
N-Nitrosodimethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
N-Nitrosodimethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodimethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodimethylamine	2015-06	ug/L						< 10.5	< 11.1					
N-Nitrosodimethylamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
N-Nitrosodimethylamine	2015-10	ug/L			< 10.3	< 10.5								
N-Nitrosodimethylamine	2016-03	ug/L												
N-Nitrosodimethylamine	2016-06	ug/L					< 11.4							
N-Nitrosodimethylamine	2016-08	ug/L					< 11							
N-Nitrosodimethylamine	2018-11	ug/L											< 11.6	
N-Nitrosodimethylamine	2019-03	ug/L											< 12.2	
N-Nitrosodimethylamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
N-Nitrosodi-n-butylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodi-n-butylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodi-n-butylamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
N-Nitrosodi-n-butylamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
N-Nitrosodi-n-butylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
N-Nitrosodi-n-butylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodi-n-butylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodi-n-butylamine	2015-06	ug/L						< 10.5	< 11.1					
N-Nitrosodi-n-butylamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
N-Nitrosodi-n-butylamine	2015-10	ug/L			< 10.3	< 10.5								
N-Nitrosodi-n-butylamine	2016-03	ug/L												
N-Nitrosodi-n-butylamine	2016-06	ug/L					< 11.4							
N-Nitrosodi-n-butylamine	2016-08	ug/L					< 11							
N-Nitrosodi-n-butylamine	2018-11	ug/L											< 11.6	
N-Nitrosodi-n-butylamine	2019-03	ug/L											< 12.2	
N-Nitrosodi-n-butylamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
N-Nitrosodi-n-propylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodi-n-propylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodi-n-propylamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
N-Nitrosodi-n-propylamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
N-Nitrosodi-n-propylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
N-Nitrosodi-n-propylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodi-n-propylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodi-n-propylamine	2012-03	ug/L												
N-Nitrosodi-n-propylamine	2012-09	ug/L												
N-Nitrosodi-n-propylamine	2013-03	ug/L												
N-Nitrosodi-n-propylamine	2015-06	ug/L						< 10.5	< 11.1					

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Nickel	2020-04	mg/L											
Nickel	2020-08	mg/L	**0.00797**	**0.00987**	< 0.005	**0.00242 J**	**0.00213 J**			**0.016**	**0.0147**	**0.00623**	**0.0374**
Nickel	2021-03	mg/L	**0.0075**		< 0.005	< 0.005							**0.037**
Nickel	2021-08	mg/L	**0.0052**	**0.00744**	< 0.005	**0.00266 J**	**0.0026 J**			**0.0148**	**0.0314**	**0.00782**	**0.0357**
Nickel	2022-03	mg/L	**0.00547**		< 0.005	**0.00276 J**							**0.0328**
Nickel	2022-08	mg/L	**0.00588**	**0.0076**	< 0.005	**0.00206 J**	**0.00235 J**			**0.00983**	**0.0158**	**0.00903**	**0.0384**
Nickel	2023-03	mg/L	**0.00555**		< 0.005	**0.00305 J**							**0.0366**
Nickel	2023-08	mg/L	**0.00841**	**0.00711**	< 0.005	**0.00268 J**	**0.0024 J**			**0.0108**	**0.0126**	**0.00619**	**0.0347**
Nickel	2024-03	mg/L	**0.00682**		< 0.005	**0.00244 J**							**0.0378**
Nickel	2024-08	mg/L	**0.00722**	**0.00749**	< 0.005	< 0.005	**0.00258 J**			**0.0131**	**0.0113**	**0.0069**	**0.032**
Nitrobenzene	2008-08	ug/L	< 10	< 10	< 10								
Nitrobenzene	2009-03	ug/L	< 10	< 10	< 10								
Nitrobenzene	2009-07	ug/L	< 10	< 10	< 10.0								
Nitrobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Nitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Nitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Nitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Nitrobenzene	2012-03	ug/L			< 10.0								
Nitrobenzene	2012-09	ug/L			< 10.0								
Nitrobenzene	2013-03	ug/L			< 10.4								
Nitrobenzene	2015-06	ug/L											
Nitrobenzene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Nitrobenzene	2015-10	ug/L				< 10.6							
Nitrobenzene	2016-03	ug/L			< 10	< 10							
Nitrobenzene	2016-06	ug/L											
Nitrobenzene	2016-08	ug/L			< 11.1	< 11.5							
Nitrobenzene	2018-11	ug/L											
Nitrobenzene	2019-03	ug/L											
Nitrobenzene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
N-Nitrosodiethylamine	2008-08	ug/L	< 10	< 10	< 10								
N-Nitrosodiethylamine	2009-03	ug/L	< 10	< 10	< 10								
N-Nitrosodiethylamine	2009-07	ug/L	< 10	< 10	< 10.0								
N-Nitrosodiethylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodiethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodiethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodiethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodiethylamine	2015-06	ug/L											
N-Nitrosodiethylamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
N-Nitrosodiethylamine	2015-10	ug/L				< 10.6							
N-Nitrosodiethylamine	2016-03	ug/L			< 10	< 10							
N-Nitrosodiethylamine	2016-06	ug/L											
N-Nitrosodiethylamine	2016-08	ug/L			< 11.1	< 11.5							
N-Nitrosodiethylamine	2018-11	ug/L											
N-Nitrosodiethylamine	2019-03	ug/L											
N-Nitrosodiethylamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
N-Nitrosodimethylamine	2008-08	ug/L	< 10	< 10	< 10								
N-Nitrosodimethylamine	2009-03	ug/L	< 10	< 10	< 10								
N-Nitrosodimethylamine	2009-07	ug/L	< 10	< 10	< 10.0								
N-Nitrosodimethylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodimethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodimethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodimethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodimethylamine	2015-06	ug/L											
N-Nitrosodimethylamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
N-Nitrosodimethylamine	2015-10	ug/L				< 10.6							
N-Nitrosodimethylamine	2016-03	ug/L			< 10	< 10							
N-Nitrosodimethylamine	2016-06	ug/L											
N-Nitrosodimethylamine	2016-08	ug/L			< 11.1	< 11.5							
N-Nitrosodimethylamine	2018-11	ug/L											
N-Nitrosodimethylamine	2019-03	ug/L											
N-Nitrosodimethylamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
N-Nitrosodi-n-butylamine	2008-08	ug/L	< 10	< 10	< 10								
N-Nitrosodi-n-butylamine	2009-03	ug/L	< 10	< 10	< 10								
N-Nitrosodi-n-butylamine	2009-07	ug/L	< 10	< 10	< 10.0								
N-Nitrosodi-n-butylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-butylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-butylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-butylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-butylamine	2015-06	ug/L											
N-Nitrosodi-n-butylamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
N-Nitrosodi-n-butylamine	2015-10	ug/L				< 10.6							
N-Nitrosodi-n-butylamine	2016-03	ug/L			< 10	< 10							
N-Nitrosodi-n-butylamine	2016-06	ug/L											
N-Nitrosodi-n-butylamine	2016-08	ug/L			< 11.1	< 11.5							
N-Nitrosodi-n-butylamine	2018-11	ug/L											
N-Nitrosodi-n-butylamine	2019-03	ug/L											
N-Nitrosodi-n-butylamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
N-Nitrosodi-n-propylamine	2008-08	ug/L	< 10	< 10	< 10								
N-Nitrosodi-n-propylamine	2009-03	ug/L	< 10	< 10	< 10								
N-Nitrosodi-n-propylamine	2009-07	ug/L	< 10	< 10	< 10.0								
N-Nitrosodi-n-propylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-propylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-propylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-propylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodi-n-propylamine	2012-03	ug/L			< 10.0								
N-Nitrosodi-n-propylamine	2012-09	ug/L			< 10.0								
N-Nitrosodi-n-propylamine	2013-03	ug/L			< 10.4								
N-Nitrosodi-n-propylamine	2015-06	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
N-Nitrosodi-n-propylamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
N-Nitrosodi-n-propylamine	2015-10	ug/L			< 10.3	< 10.5								
N-Nitrosodi-n-propylamine	2016-03	ug/L												
N-Nitrosodi-n-propylamine	2016-06	ug/L					< 11.4							
N-Nitrosodi-n-propylamine	2016-08	ug/L					< 11							
N-Nitrosodi-n-propylamine	2018-11	ug/L											< 11.6	
N-Nitrosodi-n-propylamine	2019-03	ug/L											< 12.2	
N-Nitrosodi-n-propylamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
N-Nitrosodiphenylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodiphenylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodiphenylamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
N-Nitrosodiphenylamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
N-Nitrosodiphenylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
N-Nitrosodiphenylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodiphenylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosodiphenylamine	2012-03	ug/L												
N-Nitrosodiphenylamine	2012-09	ug/L												
N-Nitrosodiphenylamine	2013-03	ug/L												
N-Nitrosodiphenylamine	2015-06	ug/L						< 10.5	< 11.1					
N-Nitrosodiphenylamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
N-Nitrosodiphenylamine	2015-10	ug/L			< 10.3	< 10.5								
N-Nitrosodiphenylamine	2016-03	ug/L												
N-Nitrosodiphenylamine	2016-06	ug/L					< 11.4							
N-Nitrosodiphenylamine	2016-08	ug/L					< 11							
N-Nitrosodiphenylamine	2018-11	ug/L											< 11.6	
N-Nitrosodiphenylamine	2019-03	ug/L											< 12.2	
N-Nitrosodiphenylamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
N-Nitrosomethylethylamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosomethylethylamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosomethylethylamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
N-Nitrosomethylethylamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
N-Nitrosomethylethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
N-Nitrosomethylethylamine	2010-09	ug/L	< 10.0	< 10.0	**0.204 J**	< 10.0				< 10.0				
N-Nitrosomethylethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosomethylethylamine	2011-09	ug/L			< 10.0									
N-Nitrosomethylethylamine	2012-03	ug/L			< 10.0									
N-Nitrosomethylethylamine	2012-09	ug/L			< 10.0									
N-Nitrosomethylethylamine	2013-03	ug/L			< 10.6									
N-Nitrosomethylethylamine	2013-09	ug/L			< 10.8									
N-Nitrosomethylethylamine	2015-06	ug/L						< 10.5	< 11.1					
N-Nitrosomethylethylamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
N-Nitrosomethylethylamine	2015-10	ug/L			< 10.3	< 10.5								
N-Nitrosomethylethylamine	2016-03	ug/L												
N-Nitrosomethylethylamine	2016-06	ug/L					< 11.4							
N-Nitrosomethylethylamine	2016-08	ug/L					< 11							
N-Nitrosomethylethylamine	2018-11	ug/L											< 11.6	
N-Nitrosomethylethylamine	2019-03	ug/L											< 12.2	
N-Nitrosomethylethylamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
N-Nitrosopiperidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosopiperidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosopiperidine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
N-Nitrosopiperidine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
N-Nitrosopiperidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
N-Nitrosopiperidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosopiperidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosopiperidine	2015-06	ug/L						< 10.5	< 11.1					
N-Nitrosopiperidine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
N-Nitrosopiperidine	2015-10	ug/L			< 10.3	< 10.5								
N-Nitrosopiperidine	2016-03	ug/L												
N-Nitrosopiperidine	2016-06	ug/L					< 11.4							
N-Nitrosopiperidine	2016-08	ug/L					< 11							
N-Nitrosopiperidine	2018-11	ug/L											< 11.6	
N-Nitrosopiperidine	2019-03	ug/L											< 12.2	
N-Nitrosopiperidine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
N-Nitrosopyrrolidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosopyrrolidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosopyrrolidine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
N-Nitrosopyrrolidine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
N-Nitrosopyrrolidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
N-Nitrosopyrrolidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosopyrrolidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
N-Nitrosopyrrolidine	2015-06	ug/L						< 10.5	< 11.1					
N-Nitrosopyrrolidine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
N-Nitrosopyrrolidine	2015-10	ug/L			< 10.3	< 10.5								
N-Nitrosopyrrolidine	2016-03	ug/L												
N-Nitrosopyrrolidine	2016-06	ug/L					< 11.4							
N-Nitrosopyrrolidine	2016-08	ug/L					< 11							
N-Nitrosopyrrolidine	2018-11	ug/L											< 11.6	
N-Nitrosopyrrolidine	2019-03	ug/L											< 12.2	
N-Nitrosopyrrolidine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
o,o,o-Triethylphosphorothioate	2008-08	ug/L	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
o,o,o-Triethylphosphorothioate	2009-03	ug/L	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
o,o,o-Triethylphosphorothioate	2009-07	ug/L	< 30	< 30	< 30	< 30	< 30	< 30	< 30.0	< 30.0	< 30	< 30	< 30	< 30.0
o,o,o-Triethylphosphorothioate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
o,o,o-Triethylphosphorothioate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
o,o,o-Triethylphosphorothioate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
o,o,o-Triethylphosphorothioate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
o,o,o-Triethylphosphorothioate	2015-06	ug/L						< 10.5	< 11.1					

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
N-Nitrosodi-n-propylamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
N-Nitrosodi-n-propylamine	2015-10	ug/L				< 10.6							
N-Nitrosodi-n-propylamine	2016-03	ug/L			< 10	< 10							
N-Nitrosodi-n-propylamine	2016-06	ug/L											
N-Nitrosodi-n-propylamine	2016-08	ug/L			< 11.1	< 11.5							
N-Nitrosodi-n-propylamine	2018-11	ug/L											
N-Nitrosodi-n-propylamine	2019-03	ug/L											
N-Nitrosodi-n-propylamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
N-Nitrosodiphenylamine	2008-08	ug/L	< 10	< 10	< 10								
N-Nitrosodiphenylamine	2009-03	ug/L	< 10	< 10	< 10								
N-Nitrosodiphenylamine	2009-07	ug/L	< 10	< 10	< 10.0								
N-Nitrosodiphenylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodiphenylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodiphenylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodiphenylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosodiphenylamine	2012-03	ug/L			< 10.0								
N-Nitrosodiphenylamine	2012-09	ug/L			< 10.0								
N-Nitrosodiphenylamine	2013-03	ug/L			< 10.4								
N-Nitrosodiphenylamine	2015-06	ug/L											
N-Nitrosodiphenylamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
N-Nitrosodiphenylamine	2015-10	ug/L				< 10.6							
N-Nitrosodiphenylamine	2016-03	ug/L			< 10	< 10							
N-Nitrosodiphenylamine	2016-06	ug/L											
N-Nitrosodiphenylamine	2016-08	ug/L			< 11.1	< 11.5							
N-Nitrosodiphenylamine	2018-11	ug/L											
N-Nitrosodiphenylamine	2019-03	ug/L											
N-Nitrosodiphenylamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
N-Nitrosomethylethylamine	2008-08	ug/L	< 10	< 10	< 10								
N-Nitrosomethylethylamine	2009-03	ug/L	< 10	< 10	< 10								
N-Nitrosomethylethylamine	2009-07	ug/L	< 10	< 10	< 10.0								
N-Nitrosomethylethylamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosomethylethylamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosomethylethylamine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosomethylethylamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosomethylethylamine	2011-09	ug/L			< 10.0								
N-Nitrosomethylethylamine	2012-03	ug/L			< 10.0								
N-Nitrosomethylethylamine	2012-09	ug/L			< 10.0								
N-Nitrosomethylethylamine	2013-03	ug/L			< 10.4								
N-Nitrosomethylethylamine	2013-09	ug/L											
N-Nitrosomethylethylamine	2015-06	ug/L											
N-Nitrosomethylethylamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
N-Nitrosomethylethylamine	2015-10	ug/L				< 10.6							
N-Nitrosomethylethylamine	2016-03	ug/L			< 10	< 10							
N-Nitrosomethylethylamine	2016-06	ug/L											
N-Nitrosomethylethylamine	2016-08	ug/L			< 11.1	< 11.5							
N-Nitrosomethylethylamine	2018-11	ug/L											
N-Nitrosomethylethylamine	2019-03	ug/L											
N-Nitrosomethylethylamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
N-Nitrosopiperidine	2008-08	ug/L	< 10	< 10	< 10								
N-Nitrosopiperidine	2009-03	ug/L	< 10	< 10	< 10								
N-Nitrosopiperidine	2009-07	ug/L	< 10	< 10	< 10.0								
N-Nitrosopiperidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosopiperidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosopiperidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosopiperidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosopiperidine	2015-06	ug/L											
N-Nitrosopiperidine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
N-Nitrosopiperidine	2015-10	ug/L				< 10.6							
N-Nitrosopiperidine	2016-03	ug/L			< 10	< 10							
N-Nitrosopiperidine	2016-06	ug/L											
N-Nitrosopiperidine	2016-08	ug/L			< 11.1	< 11.5							
N-Nitrosopiperidine	2018-11	ug/L											
N-Nitrosopiperidine	2019-03	ug/L											
N-Nitrosopiperidine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
N-Nitrosopyrrolidine	2008-08	ug/L	< 10	< 10	< 10								
N-Nitrosopyrrolidine	2009-03	ug/L	< 10	< 10	< 10								
N-Nitrosopyrrolidine	2009-07	ug/L	< 10	< 10	< 10.0								
N-Nitrosopyrrolidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosopyrrolidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosopyrrolidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosopyrrolidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
N-Nitrosopyrrolidine	2015-06	ug/L											
N-Nitrosopyrrolidine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
N-Nitrosopyrrolidine	2015-10	ug/L				< 10.6							
N-Nitrosopyrrolidine	2016-03	ug/L			< 10	< 10							
N-Nitrosopyrrolidine	2016-06	ug/L											
N-Nitrosopyrrolidine	2016-08	ug/L			< 11.1	< 11.5							
N-Nitrosopyrrolidine	2018-11	ug/L											
N-Nitrosopyrrolidine	2019-03	ug/L											
N-Nitrosopyrrolidine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
o,o,o-Triethylphosphorothioate	2008-08	ug/L	< 30	< 30	< 30								
o,o,o-Triethylphosphorothioate	2009-03	ug/L	< 30	< 30	< 30								
o,o,o-Triethylphosphorothioate	2009-07	ug/L	< 30	< 30	< 30.0								
o,o,o-Triethylphosphorothioate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
o,o,o-Triethylphosphorothioate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
o,o,o-Triethylphosphorothioate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
o,o,o-Triethylphosphorothioate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
o,o,o-Triethylphosphorothioate	2015-06	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
o,o,o-Triethylphosphorothioate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
o,o,o-Triethylphosphorothioate	2015-10	ug/L			< 10.3	< 10.5								
o,o,o-Triethylphosphorothioate	2016-03	ug/L												
o,o,o-Triethylphosphorothioate	2016-06	ug/L					< 11.4							
o,o,o-Triethylphosphorothioate	2016-08	ug/L					< 11							
o,o,o-Triethylphosphorothioate	2018-11	ug/L											< 11.6	
o,o,o-Triethylphosphorothioate	2019-03	ug/L											< 12.2	
o,o,o-Triethylphosphorothioate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
o-Toluidine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Toluidine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Toluidine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
o-Toluidine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
o-Toluidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
o-Toluidine	2010-09	ug/L	< 10.0	**0.185 J**	< 10.0	< 10.0				< 10.0				
o-Toluidine	2011-03	ug/L	< 10.0	**0.204 J**	< 10.0	< 10.0				< 10.0				
o-Toluidine	2011-09	ug/L		**0.187 J**										
o-Toluidine	2012-03	ug/L		**0.222 J**										
o-Toluidine	2012-09	ug/L		< 10.0										
o-Toluidine	2013-03	ug/L		**0.369 J**										
o-Toluidine	2013-09	ug/L		< 11.0										
o-Toluidine	2015-06	ug/L						< 10.5	< 11.1					
o-Toluidine	2015-09	ug/L	< 11.1	**0.234 J**				< 11.1	< 10.2	< 11.2	< 11.1			
o-Toluidine	2015-10	ug/L			< 10.3	< 10.5								
o-Toluidine	2016-03	ug/L												
o-Toluidine	2016-06	ug/L					< 11.4							
o-Toluidine	2016-08	ug/L					< 11							
o-Toluidine	2018-11	ug/L											< 11.6	
o-Toluidine	2019-03	ug/L											< 12.2	
o-Toluidine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
p-(Dimethylamino)azobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-(Dimethylamino)azobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-(Dimethylamino)azobenzene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
p-(Dimethylamino)azobenzene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
p-(Dimethylamino)azobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
p-(Dimethylamino)azobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
p-(Dimethylamino)azobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
p-(Dimethylamino)azobenzene	2015-06	ug/L						< 10.5	< 11.1					
p-(Dimethylamino)azobenzene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
p-(Dimethylamino)azobenzene	2015-10	ug/L			< 10.3	< 10.5								
p-(Dimethylamino)azobenzene	2016-03	ug/L												
p-(Dimethylamino)azobenzene	2016-06	ug/L					< 11.4							
p-(Dimethylamino)azobenzene	2016-08	ug/L					< 11							
p-(Dimethylamino)azobenzene	2018-11	ug/L											< 11.6	
p-(Dimethylamino)azobenzene	2019-03	ug/L											< 12.2	
p-(Dimethylamino)azobenzene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Parathion	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Parathion	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Parathion	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Parathion	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Parathion	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Parathion	2010-09	ug/L	< 10.0	**0.182 J**	< 10.0	< 10.0				< 10.0				
Parathion	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Parathion	2011-09	ug/L		< 10.0										
Parathion	2012-03	ug/L		< 10.0										
Parathion	2012-09	ug/L		< 10.0										
Parathion	2013-03	ug/L		< 10.2										
Parathion	2013-09	ug/L		< 11.0										
Parathion	2015-06	ug/L						< 10.5	< 11.1					
Parathion	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Parathion	2015-10	ug/L			< 10.3	< 10.5								
Parathion	2016-03	ug/L												
Parathion	2016-06	ug/L					< 11.4							
Parathion	2016-08	ug/L					< 11							
Parathion	2018-11	ug/L											< 11.6	
Parathion	2019-03	ug/L											< 12.2	
Parathion	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
PCBs - Aroclor 1016	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1016	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1016	2010-09	ug/L	< 0.800	< 0.800	< 0.800	< 0.800 UJ				< 0.800				
PCBs - Aroclor 1016	2015-06	ug/L						< 0.889	< 0.8					
PCBs - Aroclor 1016	2015-09	ug/L	< 0.879	< 0.808				< 0.808	< 0.889	< 0.889	< 0.879			
PCBs - Aroclor 1016	2015-10	ug/L			< 0.93	< 0.889								
PCBs - Aroclor 1016	2016-03	ug/L												
PCBs - Aroclor 1016	2016-06	ug/L					< 0.86							
PCBs - Aroclor 1016	2016-08	ug/L					< 0.842							
PCBs - Aroclor 1016	2018-11	ug/L											< 0.92	
PCBs - Aroclor 1016	2019-03	ug/L											< 0.941	
PCBs - Aroclor 1016	2020-08	ug/L	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 0.976	< 0.941	< 0.976			
PCBs - Aroclor 1221	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1221	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1221	2010-09	ug/L	< 0.800	< 0.800	< 0.800	< 0.800 UJ				< 0.800				
PCBs - Aroclor 1221	2015-06	ug/L						< 0.889	< 0.8					
PCBs - Aroclor 1221	2015-09	ug/L	< 0.879	< 0.808				< 0.808	< 0.889	< 0.889	< 0.879			
PCBs - Aroclor 1221	2015-10	ug/L			< 0.93	< 0.889								
PCBs - Aroclor 1221	2016-03	ug/L												
PCBs - Aroclor 1221	2016-06	ug/L					< 0.86							
PCBs - Aroclor 1221	2016-08	ug/L					< 0.842							
PCBs - Aroclor 1221	2018-11	ug/L											< 0.92	

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
o,o,o-Triethylphosphorothioate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
o,o,o-Triethylphosphorothioate	2015-10	ug/L				< 10.6							
o,o,o-Triethylphosphorothioate	2016-03	ug/L			< 10	< 10							
o,o,o-Triethylphosphorothioate	2016-06	ug/L											
o,o,o-Triethylphosphorothioate	2016-08	ug/L			< 11.1	< 11.5							
o,o,o-Triethylphosphorothioate	2018-11	ug/L											
o,o,o-Triethylphosphorothioate	2019-03	ug/L											
o,o,o-Triethylphosphorothioate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
o-Toluidine	2008-08	ug/L	< 10	< 10	< 10								
o-Toluidine	2009-03	ug/L	< 10	< 10	< 10								
o-Toluidine	2009-07	ug/L	< 10	< 10	< 10.0								
o-Toluidine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
o-Toluidine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
o-Toluidine	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
o-Toluidine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
o-Toluidine	2011-09	ug/L			< 10.0								
o-Toluidine	2012-03	ug/L			< 10.0								
o-Toluidine	2012-09	ug/L	< 10.0		< 10.0								
o-Toluidine	2013-03	ug/L			< 10.4								
o-Toluidine	2013-09	ug/L											
o-Toluidine	2015-06	ug/L											
o-Toluidine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
o-Toluidine	2015-10	ug/L				< 10.6							
o-Toluidine	2016-03	ug/L			< 10	< 10							
o-Toluidine	2016-06	ug/L											
o-Toluidine	2016-08	ug/L			< 11.1	< 11.5							
o-Toluidine	2018-11	ug/L											
o-Toluidine	2019-03	ug/L											
o-Toluidine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
p-(Dimethylamino)azobenzene	2008-08	ug/L	< 10	< 10	< 10								
p-(Dimethylamino)azobenzene	2009-03	ug/L	< 10	< 10	< 10								
p-(Dimethylamino)azobenzene	2009-07	ug/L	< 10	< 10	< 10.0								
p-(Dimethylamino)azobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
p-(Dimethylamino)azobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
p-(Dimethylamino)azobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
p-(Dimethylamino)azobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
p-(Dimethylamino)azobenzene	2015-06	ug/L											
p-(Dimethylamino)azobenzene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
p-(Dimethylamino)azobenzene	2015-10	ug/L				< 10.6							
p-(Dimethylamino)azobenzene	2016-03	ug/L			< 10	< 10							
p-(Dimethylamino)azobenzene	2016-06	ug/L											
p-(Dimethylamino)azobenzene	2016-08	ug/L			< 11.1	< 11.5							
p-(Dimethylamino)azobenzene	2018-11	ug/L											
p-(Dimethylamino)azobenzene	2019-03	ug/L											
p-(Dimethylamino)azobenzene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Parathion	2008-08	ug/L	< 10	< 10	< 10								
Parathion	2009-03	ug/L	< 10	< 10	< 10								
Parathion	2009-07	ug/L	< 10	< 10	< 10.0								
Parathion	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Parathion	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Parathion	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Parathion	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Parathion	2011-09	ug/L			< 10.0								
Parathion	2012-03	ug/L			< 10.0								
Parathion	2012-09	ug/L			< 10.0								
Parathion	2013-03	ug/L			< 10.4								
Parathion	2013-09	ug/L											
Parathion	2015-06	ug/L											
Parathion	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Parathion	2015-10	ug/L				< 10.6							
Parathion	2016-03	ug/L			< 10	< 10							
Parathion	2016-06	ug/L											
Parathion	2016-08	ug/L			< 11.1	< 11.5							
Parathion	2018-11	ug/L											
Parathion	2019-03	ug/L											
Parathion	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
PCBs - Aroclor 1016	2008-08	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1016	2009-03	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1016	2010-09	ug/L	< 0.800	< 0.800	< 0.800								
PCBs - Aroclor 1016	2015-06	ug/L											
PCBs - Aroclor 1016	2015-09	ug/L	< 0.842	< 0.889	< 0.87								
PCBs - Aroclor 1016	2015-10	ug/L				< 0.909							
PCBs - Aroclor 1016	2016-03	ug/L			< 0.87	< 0.909							
PCBs - Aroclor 1016	2016-06	ug/L											
PCBs - Aroclor 1016	2016-08	ug/L			< 0.899	< 0.899							
PCBs - Aroclor 1016	2018-11	ug/L											
PCBs - Aroclor 1016	2019-03	ug/L											
PCBs - Aroclor 1016	2020-08	ug/L	< 0.941	< 0.976	< 0.976	< 0.941							
PCBs - Aroclor 1221	2008-08	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1221	2009-03	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1221	2010-09	ug/L	< 0.800	< 0.800	< 0.800								
PCBs - Aroclor 1221	2015-06	ug/L											
PCBs - Aroclor 1221	2015-09	ug/L	< 0.842	< 0.889	< 0.87								
PCBs - Aroclor 1221	2015-10	ug/L				< 0.909							
PCBs - Aroclor 1221	2016-03	ug/L			< 0.87	< 0.909							
PCBs - Aroclor 1221	2016-06	ug/L											
PCBs - Aroclor 1221	2016-08	ug/L			< 0.899	< 0.899							
PCBs - Aroclor 1221	2018-11	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
PCBs - Aroclor 1221	2019-03	ug/L											< 0.941	
PCBs - Aroclor 1221	2020-08	ug/L	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 0.976	< 0.941	< 0.976			
PCBs - Aroclor 1232	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1232	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1232	2010-09	ug/L	< 0.800	< 0.800	< 0.800	< 0.800 UJ				< 0.800				
PCBs - Aroclor 1232	2015-06	ug/L						< 0.889	< 0.8					
PCBs - Aroclor 1232	2015-09	ug/L	< 0.879	< 0.808				< 0.808	< 0.889	< 0.889	< 0.879			
PCBs - Aroclor 1232	2015-10	ug/L			< 0.93	< 0.889								
PCBs - Aroclor 1232	2016-03	ug/L												
PCBs - Aroclor 1232	2016-06	ug/L					< 0.86							
PCBs - Aroclor 1232	2016-08	ug/L					< 0.842							
PCBs - Aroclor 1232	2018-11	ug/L											< 0.92	
PCBs - Aroclor 1232	2019-03	ug/L											< 0.941	
PCBs - Aroclor 1232	2020-08	ug/L	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 0.976	< 0.941	< 0.976			
PCBs - Aroclor 1242	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1242	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1242	2010-09	ug/L	< 0.800	< 0.800	< 0.800	< 0.800 UJ				< 0.800				
PCBs - Aroclor 1242	2015-06	ug/L						< 0.889	< 0.8					
PCBs - Aroclor 1242	2015-09	ug/L	< 0.879	< 0.808				< 0.808	< 0.889	< 0.889	< 0.879			
PCBs - Aroclor 1242	2015-10	ug/L			< 0.93	< 0.889								
PCBs - Aroclor 1242	2016-03	ug/L												
PCBs - Aroclor 1242	2016-06	ug/L					< 0.86							
PCBs - Aroclor 1242	2016-08	ug/L					< 0.842							
PCBs - Aroclor 1242	2018-11	ug/L											< 0.92	
PCBs - Aroclor 1242	2019-03	ug/L											< 0.941	
PCBs - Aroclor 1242	2020-08	ug/L	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 0.976	< 0.941	< 0.976			
PCBs - Aroclor 1248	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1248	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1248	2010-09	ug/L	< 0.800	< 0.800	< 0.800	< 0.800 UJ				< 0.800				
PCBs - Aroclor 1248	2015-06	ug/L						< 0.889	< 0.8					
PCBs - Aroclor 1248	2015-09	ug/L	< 0.879	< 0.808				< 0.808	< 0.889	< 0.889	< 0.879			
PCBs - Aroclor 1248	2015-10	ug/L			< 0.93	< 0.889								
PCBs - Aroclor 1248	2016-03	ug/L												
PCBs - Aroclor 1248	2016-06	ug/L					< 0.86							
PCBs - Aroclor 1248	2016-08	ug/L					< 0.842							
PCBs - Aroclor 1248	2018-11	ug/L											< 0.92	
PCBs - Aroclor 1248	2019-03	ug/L											< 0.941	
PCBs - Aroclor 1248	2020-08	ug/L	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 0.976	< 0.941	< 0.976			
PCBs - Aroclor 1254	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1254	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1254	2010-09	ug/L	< 0.800	< 0.800	< 0.800	< 0.800 UJ				< 0.800				
PCBs - Aroclor 1254	2015-06	ug/L						< 0.889	< 0.8					
PCBs - Aroclor 1254	2015-09	ug/L	< 0.879	< 0.808				< 0.808	< 0.889	< 0.889	< 0.879			
PCBs - Aroclor 1254	2015-10	ug/L			< 0.93	< 0.889								
PCBs - Aroclor 1254	2016-03	ug/L												
PCBs - Aroclor 1254	2016-06	ug/L					< 0.86							
PCBs - Aroclor 1254	2016-08	ug/L					< 0.842							
PCBs - Aroclor 1254	2018-11	ug/L											< 0.92	
PCBs - Aroclor 1254	2019-03	ug/L											< 0.941	
PCBs - Aroclor 1254	2020-08	ug/L	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 0.976	< 0.941	< 0.976			
PCBs - Aroclor 1260	2008-08	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1260	2009-03	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
PCBs - Aroclor 1260	2010-09	ug/L	< 0.800	< 0.800	< 0.800	< 0.800 UJ				< 0.800				
PCBs - Aroclor 1260	2015-06	ug/L						< 0.889	< 0.8					
PCBs - Aroclor 1260	2015-09	ug/L	< 0.879	< 0.808				< 0.808	< 0.889	< 0.889	< 0.879			
PCBs - Aroclor 1260	2015-10	ug/L			< 0.93	< 0.889								
PCBs - Aroclor 1260	2016-03	ug/L												
PCBs - Aroclor 1260	2016-06	ug/L					< 0.86							
PCBs - Aroclor 1260	2016-08	ug/L					< 0.842							
PCBs - Aroclor 1260	2018-11	ug/L											< 0.92	
PCBs - Aroclor 1260	2019-03	ug/L											< 0.941	
PCBs - Aroclor 1260	2020-08	ug/L	< 0.941	< 0.976	< 0.941	< 0.941	< 0.941	< 0.941	< 0.976	< 0.941	< 0.976			
Pentachlorobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachlorobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachlorobenzene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Pentachlorobenzene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Pentachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Pentachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pentachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pentachlorobenzene	2015-06	ug/L						< 10.5	< 11.1					
Pentachlorobenzene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Pentachlorobenzene	2015-10	ug/L			< 10.3	< 10.5								
Pentachlorobenzene	2016-03	ug/L												
Pentachlorobenzene	2016-06	ug/L					< 11.4							
Pentachlorobenzene	2016-08	ug/L					< 11							
Pentachlorobenzene	2018-11	ug/L											< 11.6	
Pentachlorobenzene	2019-03	ug/L											< 12.2	
Pentachlorobenzene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Pentachloronitrobenzene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachloronitrobenzene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachloronitrobenzene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Pentachloronitrobenzene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Pentachloronitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Pentachloronitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pentachloronitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pentachloronitrobenzene	2015-06	ug/L						< 10.5	< 11.1					
Pentachloronitrobenzene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Pentachloronitrobenzene	2015-10	ug/L			< 10.3	< 10.5								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
PCBs - Aroclor 1221	2019-03	ug/L											
PCBs - Aroclor 1221	2020-08	ug/L	< 0.941	< 0.976	< 0.976	< 0.941							
PCBs - Aroclor 1232	2008-08	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1232	2009-03	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1232	2010-09	ug/L	< 0.800	< 0.800	< 0.800								
PCBs - Aroclor 1232	2015-06	ug/L											
PCBs - Aroclor 1232	2015-09	ug/L	< 0.842	< 0.889	< 0.87								
PCBs - Aroclor 1232	2015-10	ug/L				< 0.909							
PCBs - Aroclor 1232	2016-03	ug/L			< 0.87	< 0.909							
PCBs - Aroclor 1232	2016-06	ug/L											
PCBs - Aroclor 1232	2016-08	ug/L			< 0.899	< 0.899							
PCBs - Aroclor 1232	2018-11	ug/L											
PCBs - Aroclor 1232	2019-03	ug/L											
PCBs - Aroclor 1232	2020-08	ug/L	< 0.941	< 0.976	< 0.976	< 0.941							
PCBs - Aroclor 1242	2008-08	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1242	2009-03	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1242	2010-09	ug/L	< 0.800	< 0.800	< 0.800								
PCBs - Aroclor 1242	2015-06	ug/L											
PCBs - Aroclor 1242	2015-09	ug/L	< 0.842	< 0.889	< 0.87								
PCBs - Aroclor 1242	2015-10	ug/L				< 0.909							
PCBs - Aroclor 1242	2016-03	ug/L			< 0.87	< 0.909							
PCBs - Aroclor 1242	2016-06	ug/L											
PCBs - Aroclor 1242	2016-08	ug/L			< 0.899	< 0.899							
PCBs - Aroclor 1242	2018-11	ug/L											
PCBs - Aroclor 1242	2019-03	ug/L											
PCBs - Aroclor 1242	2020-08	ug/L	< 0.941	< 0.976	< 0.976	< 0.941							
PCBs - Aroclor 1248	2008-08	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1248	2009-03	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1248	2010-09	ug/L	< 0.800	< 0.800	< 0.800								
PCBs - Aroclor 1248	2015-06	ug/L											
PCBs - Aroclor 1248	2015-09	ug/L	< 0.842	< 0.889	< 0.87								
PCBs - Aroclor 1248	2015-10	ug/L				< 0.909							
PCBs - Aroclor 1248	2016-03	ug/L			< 0.87	< 0.909							
PCBs - Aroclor 1248	2016-06	ug/L											
PCBs - Aroclor 1248	2016-08	ug/L			< 0.899	< 0.899							
PCBs - Aroclor 1248	2018-11	ug/L											
PCBs - Aroclor 1248	2019-03	ug/L											
PCBs - Aroclor 1248	2020-08	ug/L	< 0.941	< 0.976	< 0.976	< 0.941							
PCBs - Aroclor 1254	2008-08	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1254	2009-03	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1254	2010-09	ug/L	< 0.800	< 0.800	< 0.800								
PCBs - Aroclor 1254	2015-06	ug/L											
PCBs - Aroclor 1254	2015-09	ug/L	< 0.842	< 0.889	< 0.87								
PCBs - Aroclor 1254	2015-10	ug/L				< 0.909							
PCBs - Aroclor 1254	2016-03	ug/L			< 0.87	< 0.909							
PCBs - Aroclor 1254	2016-06	ug/L											
PCBs - Aroclor 1254	2016-08	ug/L			< 0.899	< 0.899							
PCBs - Aroclor 1254	2018-11	ug/L											
PCBs - Aroclor 1254	2019-03	ug/L											
PCBs - Aroclor 1254	2020-08	ug/L	< 0.941	< 0.976	< 0.976	< 0.941							
PCBs - Aroclor 1260	2008-08	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1260	2009-03	ug/L	< 0.8	< 0.8	< 0.8								
PCBs - Aroclor 1260	2010-09	ug/L	< 0.800	< 0.800	< 0.800								
PCBs - Aroclor 1260	2015-06	ug/L											
PCBs - Aroclor 1260	2015-09	ug/L	< 0.842	< 0.889	< 0.87								
PCBs - Aroclor 1260	2015-10	ug/L				< 0.909							
PCBs - Aroclor 1260	2016-03	ug/L			< 0.87	< 0.909							
PCBs - Aroclor 1260	2016-06	ug/L											
PCBs - Aroclor 1260	2016-08	ug/L			< 0.899	< 0.899							
PCBs - Aroclor 1260	2018-11	ug/L											
PCBs - Aroclor 1260	2019-03	ug/L											
PCBs - Aroclor 1260	2020-08	ug/L	< 0.941	< 0.976	< 0.976	< 0.941							
Pentachlorobenzene	2008-08	ug/L	< 10	< 10	< 10								
Pentachlorobenzene	2009-03	ug/L	< 10	< 10	< 10								
Pentachlorobenzene	2009-07	ug/L	< 10	< 10	< 10.0								
Pentachlorobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Pentachlorobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Pentachlorobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Pentachlorobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Pentachlorobenzene	2015-06	ug/L											
Pentachlorobenzene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Pentachlorobenzene	2015-10	ug/L				< 10.6							
Pentachlorobenzene	2016-03	ug/L			< 10	< 10							
Pentachlorobenzene	2016-06	ug/L											
Pentachlorobenzene	2016-08	ug/L			< 11.1	< 11.5							
Pentachlorobenzene	2018-11	ug/L											
Pentachlorobenzene	2019-03	ug/L											
Pentachlorobenzene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Pentachloronitrobenzene	2008-08	ug/L	< 10	< 10	< 10								
Pentachloronitrobenzene	2009-03	ug/L	< 10	< 10	< 10								
Pentachloronitrobenzene	2009-07	ug/L	< 10	< 10	< 10.0								
Pentachloronitrobenzene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Pentachloronitrobenzene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Pentachloronitrobenzene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Pentachloronitrobenzene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Pentachloronitrobenzene	2015-06	ug/L											
Pentachloronitrobenzene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Pentachloronitrobenzene	2015-10	ug/L				< 10.6							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Pentachloronitrobenzene	2016-03	ug/L												
Pentachloronitrobenzene	2016-06	ug/L					< 11.4							
Pentachloronitrobenzene	2016-08	ug/L					< 11							
Pentachloronitrobenzene	2018-11	ug/L											< 11.6	
Pentachloronitrobenzene	2019-03	ug/L											< 12.2	
Pentachloronitrobenzene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Pentachlorophenol	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachlorophenol	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachlorophenol	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Pentachlorophenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Pentachlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Pentachlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pentachlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pentachlorophenol	2012-03	ug/L												
Pentachlorophenol	2012-09	ug/L												
Pentachlorophenol	2013-03	ug/L												
Pentachlorophenol	2015-06	ug/L						< 10.5	< 11.1					
Pentachlorophenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Pentachlorophenol	2015-10	ug/L			< 10.3	< 10.5								
Pentachlorophenol	2016-03	ug/L												
Pentachlorophenol	2016-06	ug/L					< 11.4							
Pentachlorophenol	2016-08	ug/L					< 11							
Pentachlorophenol	2018-11	ug/L											< 11.6	
Pentachlorophenol	2019-03	ug/L											< 12.2	
Pentachlorophenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Phenacetin	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenacetin	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenacetin	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Phenacetin	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Phenacetin	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Phenacetin	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Phenacetin	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Phenacetin	2015-06	ug/L						< 10.5	< 11.1					
Phenacetin	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Phenacetin	2015-10	ug/L			< 10.3	< 10.5								
Phenacetin	2016-03	ug/L												
Phenacetin	2016-06	ug/L					**0.798 J**							
Phenacetin	2016-08	ug/L					< 11							
Phenacetin	2018-11	ug/L											< 11.6	
Phenacetin	2019-03	ug/L											< 12.2	
Phenacetin	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Phenanthrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Phenanthrene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Phenanthrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Phenanthrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Phenanthrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Phenanthrene	2015-06	ug/L						< 10.5	< 11.1					
Phenanthrene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Phenanthrene	2015-10	ug/L			< 10.3	< 10.5								
Phenanthrene	2016-03	ug/L												
Phenanthrene	2016-06	ug/L					< 11.4							
Phenanthrene	2016-08	ug/L					< 11							
Phenanthrene	2018-11	ug/L											< 11.6	
Phenanthrene	2019-03	ug/L											< 12.2	
Phenanthrene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Phenol	2008-08	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Phenol	2009-03	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Phenol	2009-07	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0	< 20.0	< 20	< 20	< 20	< 20.0
Phenol	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Phenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Phenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Phenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Phenol	2015-06	ug/L						< 10.5	< 11.1					
Phenol	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Phenol	2015-10	ug/L			< 10.3	< 10.5								
Phenol	2016-03	ug/L												
Phenol	2016-06	ug/L					< 11.4							
Phenol	2016-08	ug/L					< 11							
Phenol	2017-03	ug/L												
Phenol	2017-08	ug/L												
Phenol	2018-11	ug/L											< 11.6	
Phenol	2019-03	ug/L											< 12.2	
Phenol	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Phorate	2008-08	ug/L	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Phorate	2009-03	ug/L	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Phorate	2009-07	ug/L	< 60	< 60	< 60	< 60	< 60	< 60	< 60.0	< 60.0	< 60	< 60	< 60	< 60.0
Phorate	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Phorate	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Phorate	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Phorate	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Phorate	2015-06	ug/L						< 10.5	< 11.1					
Phorate	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Phorate	2015-10	ug/L			< 10.3	< 10.5								
Phorate	2016-03	ug/L												
Phorate	2016-06	ug/L					< 11.4							
Phorate	2016-08	ug/L					< 11							

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Pentachloronitrobenzene	2016-03	ug/L			< 10	< 10							
Pentachloronitrobenzene	2016-06	ug/L											
Pentachloronitrobenzene	2016-08	ug/L			< 11.1	< 11.5							
Pentachloronitrobenzene	2018-11	ug/L											
Pentachloronitrobenzene	2019-03	ug/L											
Pentachloronitrobenzene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Pentachlorophenol	2008-08	ug/L	< 10	< 10	< 10								
Pentachlorophenol	2009-03	ug/L	< 10	< 10	< 10								
Pentachlorophenol	2009-07	ug/L	< 10	< 10	< 10.0								
Pentachlorophenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Pentachlorophenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Pentachlorophenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Pentachlorophenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Pentachlorophenol	2012-03	ug/L			< 10.0								
Pentachlorophenol	2012-09	ug/L			< 10.0								
Pentachlorophenol	2013-03	ug/L			< 10.4								
Pentachlorophenol	2015-06	ug/L											
Pentachlorophenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Pentachlorophenol	2015-10	ug/L				< 10.6							
Pentachlorophenol	2016-03	ug/L			< 10	< 10							
Pentachlorophenol	2016-06	ug/L											
Pentachlorophenol	2016-08	ug/L			< 11.1	< 11.5							
Pentachlorophenol	2018-11	ug/L											
Pentachlorophenol	2019-03	ug/L											
Pentachlorophenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Phenacetin	2008-08	ug/L	< 10	< 10	< 10								
Phenacetin	2009-03	ug/L	< 10	< 10	< 10								
Phenacetin	2009-07	ug/L	< 10	< 10	< 10.0								
Phenacetin	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Phenacetin	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Phenacetin	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Phenacetin	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Phenacetin	2015-06	ug/L											
Phenacetin	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Phenacetin	2015-10	ug/L				< 10.6							
Phenacetin	2016-03	ug/L			< 10	< 10							
Phenacetin	2016-06	ug/L											
Phenacetin	2016-08	ug/L			< 11.1	< 11.5							
Phenacetin	2018-11	ug/L											
Phenacetin	2019-03	ug/L											
Phenacetin	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Phenanthrene	2008-08	ug/L	< 10	< 10	< 10								
Phenanthrene	2009-03	ug/L	< 10	< 10	< 10								
Phenanthrene	2009-07	ug/L	< 10	< 10	< 10.0								
Phenanthrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Phenanthrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Phenanthrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Phenanthrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Phenanthrene	2015-06	ug/L											
Phenanthrene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Phenanthrene	2015-10	ug/L				< 10.6							
Phenanthrene	2016-03	ug/L			< 10	< 10							
Phenanthrene	2016-06	ug/L											
Phenanthrene	2016-08	ug/L			< 11.1	< 11.5							
Phenanthrene	2018-11	ug/L											
Phenanthrene	2019-03	ug/L											
Phenanthrene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Phenol	2008-08	ug/L	< 20	< 20	< 20								
Phenol	2009-03	ug/L	< 20	< 20	< 20								
Phenol	2009-07	ug/L	< 20	< 20	< 20.0								
Phenol	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Phenol	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Phenol	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Phenol	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Phenol	2015-06	ug/L											
Phenol	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Phenol	2015-10	ug/L				< 10.6							
Phenol	2016-03	ug/L			< 10	< 10							
Phenol	2016-06	ug/L											
Phenol	2016-08	ug/L			< 11.1	< 11.5							
Phenol	2017-03	ug/L			< 10.2	< 11.4							
Phenol	2017-08	ug/L			< 10.6	< 11.1							
Phenol	2018-11	ug/L											
Phenol	2019-03	ug/L											
Phenol	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Phorate	2008-08	ug/L	< 60	< 60	< 60								
Phorate	2009-03	ug/L	< 60	< 60	< 60								
Phorate	2009-07	ug/L	< 60	< 60	< 60.0								
Phorate	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Phorate	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Phorate	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Phorate	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Phorate	2015-06	ug/L											
Phorate	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Phorate	2015-10	ug/L				< 10.6							
Phorate	2016-03	ug/L			< 10	< 10							
Phorate	2016-06	ug/L											
Phorate	2016-08	ug/L			< 11.1	< 11.5							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Phorate	2018-11	ug/L											< 11.6	
Phorate	2019-03	ug/L											< 12.2	
Phorate	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
p-Phenylenediamine	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-Phenylenediamine	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-Phenylenediamine	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
p-Phenylenediamine	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
p-Phenylenediamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
p-Phenylenediamine	2010-09	ug/L	< 10.0 R	< 10.0 R	< 10.0 R	< 10.0 R				< 10.0 R				
p-Phenylenediamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
p-Phenylenediamine	2015-06	ug/L						< 10.5	< 11.1					
p-Phenylenediamine	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
p-Phenylenediamine	2015-10	ug/L			< 10.3	< 10.5								
p-Phenylenediamine	2016-03	ug/L												
p-Phenylenediamine	2016-06	ug/L					< 11.4							
p-Phenylenediamine	2016-08	ug/L					< 11							
p-Phenylenediamine	2018-11	ug/L											< 11.6	
p-Phenylenediamine	2019-03	ug/L											< 12.2	
p-Phenylenediamine	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Pronamide	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pronamide	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pronamide	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Pronamide	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Pronamide	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Pronamide	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pronamide	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pronamide	2015-06	ug/L						< 10.5	< 11.1					
Pronamide	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Pronamide	2015-10	ug/L			< 10.3	< 10.5								
Pronamide	2016-03	ug/L												
Pronamide	2016-06	ug/L					< 11.4							
Pronamide	2016-08	ug/L					< 11							
Pronamide	2018-11	ug/L											< 11.6	
Pronamide	2019-03	ug/L											< 12.2	
Pronamide	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Propionitrile	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Propionitrile	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Propionitrile	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
Propionitrile	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
Propionitrile	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Propionitrile	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Propionitrile	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Propionitrile	2012-09	ug/L		< 10.0										
Propionitrile	2015-06	ug/L						< 10	< 10					
Propionitrile	2015-09	ug/L	< 10	< 10				< 10	< 10	< 10	< 10			
Propionitrile	2015-10	ug/L			< 10	< 10								
Propionitrile	2016-03	ug/L												
Propionitrile	2016-06	ug/L					< 10							
Propionitrile	2016-08	ug/L					< 10							
Propionitrile	2018-11	ug/L											< 10	
Propionitrile	2019-03	ug/L											< 10	
Propionitrile	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Pyrene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Pyrene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Pyrene	2012-03	ug/L												
Pyrene	2012-09	ug/L												
Pyrene	2013-03	ug/L												
Pyrene	2015-06	ug/L						< 10.5	< 11.1					
Pyrene	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Pyrene	2015-10	ug/L			< 10.3	< 10.5								
Pyrene	2016-03	ug/L												
Pyrene	2016-06	ug/L					< 11.4							
Pyrene	2016-08	ug/L					< 11							
Pyrene	2018-11	ug/L											< 11.6	
Pyrene	2019-03	ug/L											< 12.2	
Pyrene	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Safrole	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Safrole	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Safrole	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Safrole	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Safrole	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Safrole	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Safrole	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Safrole	2015-06	ug/L						< 10.5	< 11.1					
Safrole	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Safrole	2015-10	ug/L			< 10.3	< 10.5								
Safrole	2016-03	ug/L												
Safrole	2016-06	ug/L					< 11.4							
Safrole	2016-08	ug/L					< 11							
Safrole	2018-11	ug/L											< 11.6	
Safrole	2019-03	ug/L											< 12.2	
Safrole	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Selenium	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Phorate	2018-11	ug/L											
Phorate	2019-03	ug/L											
Phorate	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
p-Phenylenediamine	2008-08	ug/L	< 10	< 10	< 10								
p-Phenylenediamine	2009-03	ug/L	< 10	< 10	< 10								
p-Phenylenediamine	2009-07	ug/L	< 10	< 10	< 10.0								
p-Phenylenediamine	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
p-Phenylenediamine	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
p-Phenylenediamine	2010-09	ug/L	< 10.0 R	< 10.0 R	< 10.0 R								
p-Phenylenediamine	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
p-Phenylenediamine	2015-06	ug/L											
p-Phenylenediamine	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
p-Phenylenediamine	2015-10	ug/L				< 10.6							
p-Phenylenediamine	2016-03	ug/L			< 10	< 10							
p-Phenylenediamine	2016-06	ug/L											
p-Phenylenediamine	2016-08	ug/L			< 11.1	< 11.5							
p-Phenylenediamine	2018-11	ug/L											
p-Phenylenediamine	2019-03	ug/L											
p-Phenylenediamine	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Pronamide	2008-08	ug/L	< 10	< 10	< 10								
Pronamide	2009-03	ug/L	< 10	< 10	< 10								
Pronamide	2009-07	ug/L	< 10	< 10	< 10.0								
Pronamide	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Pronamide	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Pronamide	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Pronamide	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Pronamide	2015-06	ug/L											
Pronamide	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Pronamide	2015-10	ug/L				< 10.6							
Pronamide	2016-03	ug/L			< 10	< 10							
Pronamide	2016-06	ug/L											
Pronamide	2016-08	ug/L			< 11.1	< 11.5							
Pronamide	2018-11	ug/L											
Pronamide	2019-03	ug/L											
Pronamide	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Propionitrile	2008-08	ug/L	< 10	< 10	< 10								
Propionitrile	2009-03	ug/L	< 10	< 10	< 10								
Propionitrile	2009-07	ug/L	< 10	< 10									
Propionitrile	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Propionitrile	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Propionitrile	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Propionitrile	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Propionitrile	2012-09	ug/L											
Propionitrile	2015-06	ug/L											
Propionitrile	2015-09	ug/L	< 10	< 10	< 10								
Propionitrile	2015-10	ug/L				< 10							
Propionitrile	2016-03	ug/L			< 10	< 10							
Propionitrile	2016-06	ug/L											
Propionitrile	2016-08	ug/L			< 10	< 10							
Propionitrile	2018-11	ug/L											
Propionitrile	2019-03	ug/L											
Propionitrile	2020-08	ug/L	< 10	< 10	< 10	< 10							
Pyrene	2008-08	ug/L	< 10	< 10	< 10								
Pyrene	2009-03	ug/L	< 10	< 10	< 10								
Pyrene	2009-07	ug/L	< 10	< 10	< 10.0								
Pyrene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Pyrene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Pyrene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Pyrene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Pyrene	2012-03	ug/L			< 10.0								
Pyrene	2012-09	ug/L			< 10.0								
Pyrene	2013-03	ug/L			< 10.4								
Pyrene	2015-06	ug/L											
Pyrene	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Pyrene	2015-10	ug/L				< 10.6							
Pyrene	2016-03	ug/L			< 10	< 10							
Pyrene	2016-06	ug/L											
Pyrene	2016-08	ug/L			< 11.1	< 11.5							
Pyrene	2018-11	ug/L											
Pyrene	2019-03	ug/L											
Pyrene	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Safrole	2008-08	ug/L	< 10	< 10	< 10								
Safrole	2009-03	ug/L	< 10	< 10	< 10								
Safrole	2009-07	ug/L	< 10	< 10	< 10.0								
Safrole	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Safrole	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Safrole	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Safrole	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Safrole	2015-06	ug/L											
Safrole	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Safrole	2015-10	ug/L				< 10.6							
Safrole	2016-03	ug/L			< 10	< 10							
Safrole	2016-06	ug/L											
Safrole	2016-08	ug/L			< 11.1	< 11.5							
Safrole	2018-11	ug/L											
Safrole	2019-03	ug/L											
Safrole	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Selenium	2008-08	mg/L	< 0.05	< 0.05	< 0.05								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Selenium	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	2009-09	mg/L	< 0.00500	< 0.005		< 0.00500		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		
Selenium	2010-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2010-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2011-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2011-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2012-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2012-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2013-03	mg/L	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00500	< 0.005	< 0.005	< 0.005
Selenium	2013-09	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2013-11	mg/L												
Selenium	2014-03	mg/L	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Selenium	2014-06	mg/L												
Selenium	2014-09	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2015-03	mg/L	< 0.00500	< 0.005	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.00500	< 0.00500	< 0.005	< 0.005	< 0.00500	< 0.00500
Selenium	2015-06	mg/L						< 0.005	< 0.005					
Selenium	2015-09	mg/L	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		
Selenium	2015-10	mg/L			< 0.005	< 0.005							< 0.005	< 0.005
Selenium	2016-03	mg/L	< 0.005	**0.000884 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2016-06	mg/L					< 0.005							
Selenium	2016-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.000948 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2017-11	mg/L												
Selenium	2018-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2018-06	mg/L												
Selenium	2018-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2018-09	mg/L							< 0.005	< 0.005				
Selenium	2018-11	mg/L											< 0.005	
Selenium	2019-03	mg/L	**0.00103 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2019-04	mg/L												
Selenium	2019-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2020-03	mg/L		< 0.005		< 0.005	< 0.02	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2020-04	mg/L	< 0.005		< 0.005									
Selenium	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Selenium	2021-03	mg/L				< 0.005								
Selenium	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00108 J**	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Selenium	2022-03	mg/L				< 0.005								
Selenium	2022-08	mg/L	< 0.005	**0.00171 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Selenium	2023-03	mg/L				**0.00163 J**								
Selenium	2023-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Selenium	2024-03	mg/L				< 0.005								
Selenium	2024-08	mg/L	**0.00157 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Silver	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver	2009-09	mg/L	< 0.0200	< 0.02		< 0.0200		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		
Silver	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2013-03	mg/L	< 0.0200	< 0.0400	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.02	< 0.02	< 0.02
Silver	2013-09	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2013-11	mg/L												
Silver	2014-03	mg/L	< 0.0200	< 0.0400	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0400	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Silver	2014-06	mg/L												
Silver	2014-09	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2015-03	mg/L	< 0.00100	< 0.001	**0.0000780 J**	< 0.00100	< 0.001	< 0.001	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.00100	< 0.00100
Silver	2015-06	mg/L						**0.000071 J**	**0.000086 J**					
Silver	2015-09	mg/L	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001 J	< 0.001	< 0.001 J		
Silver	2015-10	mg/L			< 0.001 J	< 0.001							< 0.001	< 0.001
Silver	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000189 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2016-06	mg/L					< 0.001							
Silver	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2017-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000154 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2017-11	mg/L												
Silver	2018-03	mg/L	**0.000345 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000234 J**	< 0.001	< 0.001
Silver	2018-06	mg/L												
Silver	2018-08	mg/L	**0.000313 J**	**0.000356 J**	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Silver	2018-09	mg/L							< 0.001	< 0.001				
Silver	2018-11	mg/L											< 0.001	
Silver	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2019-04	mg/L												
Silver	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2020-03	mg/L		< 0.001		< 0.001	< 0.004	< 0.001	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	2020-04	mg/L	< 0.001		< 0.001									
Silver	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Silver	2021-03	mg/L				< 0.001								
Silver	2021-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	**0.00131**	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Silver	2022-03	mg/L				< 0.001								
Silver	2022-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Silver	2023-03	mg/L				**0.00164**								
Silver	2023-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.00086 J**	**0.000911 J**			< 0.001
Silver	2024-03	mg/L				< 0.001								

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Selenium	2009-03	mg/L	< 0.05	< 0.05	< 0.05								
Selenium	2009-07	mg/L	< 0.05	< 0.05	< 0.05								
Selenium	2009-09	mg/L	< 0.00500	< 0.00500	< 0.00500								
Selenium	2010-03	mg/L	< 0.00500	< 0.00500	< 0.00500								
Selenium	2010-09	mg/L	< 0.00500	< 0.00500	< 0.00500								
Selenium	2011-03	mg/L	< 0.00500	< 0.00500	< 0.00500								
Selenium	2011-09	mg/L	< 0.00500	< 0.00500	< 0.00500								
Selenium	2012-03	mg/L	< 0.00500	< 0.00500	< 0.00500								
Selenium	2012-09	mg/L	< 0.00500	< 0.00500	< 0.00500								
Selenium	2013-03	mg/L	< 0.005	< 0.005	< 0.00500								
Selenium	2013-09	mg/L	< 0.00500	< 0.00500	< 0.00500	~~< 0.00500~~	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500		
Selenium	2013-11	mg/L				**~~0.000569 J~~**	< 0.00500	< 0.00500	< 0.00500	**0.000619 J**	< 0.00500		
Selenium	2014-03	mg/L	< 0.00500	< 0.00500	< 0.00500	**~~0.000681 J~~**	< 0.00500	< 0.00500	< 0.00500	< 0.00500	**0.000767 J**		
Selenium	2014-06	mg/L				~~< 0.00500 J~~	< 0.00500 J	< 0.00500 J	< 0.00500 J	< 0.00500 J	< 0.00500 J		
Selenium	2014-09	mg/L	< 0.005	< 0.005	< 0.005	~~< 0.005~~	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		
Selenium	2015-03	mg/L	< 0.00500	< 0.00500	< 0.005	~~< 0.00500~~	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500		
Selenium	2015-06	mg/L											
Selenium	2015-09	mg/L	< 0.005	< 0.005	< 0.005								
Selenium	2015-10	mg/L				< 0.005	< 0.005	< 0.005		< 0.005	< 0.005		
Selenium	2016-03	mg/L	< 0.005	< 0.005	< 0.005	**0.00101 J**	< 0.005	**0.000736 J**		< 0.005	< 0.005		
Selenium	2016-06	mg/L											
Selenium	2016-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00133 J**	< 0.005	**0.000653 J**		< 0.005	< 0.005		
Selenium	2017-03	mg/L	< 0.005	< 0.005	< 0.005	**0.00125 J**	< 0.005	**0.00317 J**		< 0.005	< 0.005		
Selenium	2017-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00152 J**	< 0.005	**0.00118 J**		< 0.005	< 0.005		
Selenium	2017-11	mg/L										**0.000996 J**	< 0.005
Selenium	2018-03	mg/L	< 0.005	< 0.005	< 0.005	**0.00169 J**	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2018-06	mg/L										< 0.005	< 0.005
Selenium	2018-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00139 J**		**0.00166 J**		< 0.005			
Selenium	2018-09	mg/L									< 0.005	< 0.005	< 0.005
Selenium	2018-11	mg/L										< 0.005	< 0.005
Selenium	2019-03	mg/L	< 0.005	< 0.005	< 0.005	**0.00163 J**		**0.00181 J**	< 0.005	< 0.005	< 0.005	< 0.005	
Selenium	2019-04	mg/L											< 0.005
Selenium	2019-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00179 J**	< 0.005	**0.00151 J**		< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2020-03	mg/L	< 0.005	< 0.005	< 0.005	**0.0014 J**	< 0.005	**0.0014 J**		< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2020-04	mg/L											
Selenium	2020-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00174 J**	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2021-03	mg/L	< 0.005		< 0.005	**0.00218 J**							< 0.005
Selenium	2021-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00155 J**	< 0.005			**0.00593**	< 0.005	< 0.005	< 0.005
Selenium	2022-03	mg/L	< 0.005		< 0.005	**0.00132 J**							< 0.005
Selenium	2022-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00193 J**	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2023-03	mg/L	< 0.005		< 0.005	**0.00236 J**							< 0.005
Selenium	2023-08	mg/L	< 0.005	< 0.005	< 0.005	**0.0022 J**	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Selenium	2024-03	mg/L	< 0.005		< 0.005	**0.0014 J**							< 0.005
Selenium	2024-08	mg/L	< 0.005	< 0.005	< 0.005	**0.00217 J**	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Silver	2008-08	mg/L	< 0.05	< 0.05	< 0.05								
Silver	2009-03	mg/L	< 0.05	< 0.05	< 0.05								
Silver	2009-07	mg/L	< 0.05	< 0.05	< 0.05								
Silver	2009-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Silver	2010-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Silver	2010-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Silver	2011-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Silver	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Silver	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Silver	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Silver	2013-03	mg/L	< 0.02	< 0.02	< 0.0200								
Silver	2013-09	mg/L	< 0.0200	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Silver	2013-11	mg/L				~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Silver	2014-03	mg/L	< 0.0200	< 0.0200	< 0.0200	~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Silver	2014-06	mg/L				~~< 0.0200~~	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200		
Silver	2014-09	mg/L	< 0.001	< 0.001	< 0.001	~~< 0.001~~	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Silver	2015-03	mg/L	**0.0000930 J**	< 0.00100	< 0.001	**~~0.0000660 J~~**	< 0.00100	< 0.00100	< 0.00100	< 0.00100	**0.0000590 J**		
Silver	2015-06	mg/L											
Silver	2015-09	mg/L	< 0.001	< 0.001	**0.000111 J**								
Silver	2015-10	mg/L				< 0.001	< 0.001	< 0.001 J		< 0.001	< 0.001		
Silver	2016-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		
Silver	2016-06	mg/L											
Silver	2016-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		
Silver	2017-03	mg/L	**0.000197 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		
Silver	2017-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		
Silver	2017-11	mg/L										< 0.001	< 0.001
Silver	2018-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	**0.000231 J**	< 0.001		< 0.001	< 0.001	**0.000183 J**	< 0.001
Silver	2018-06	mg/L										< 0.001	< 0.001
Silver	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		**0.000301 J**		< 0.001			
Silver	2018-09	mg/L									< 0.001	< 0.001	< 0.001
Silver	2018-11	mg/L										< 0.001	< 0.001
Silver	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Silver	2019-04	mg/L											< 0.001
Silver	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001
Silver	2020-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001
Silver	2020-04	mg/L											
Silver	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Silver	2021-03	mg/L	< 0.001		< 0.001	< 0.001							< 0.001
Silver	2021-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			**0.00122**	< 0.001	< 0.001	< 0.001
Silver	2022-03	mg/L	< 0.001		< 0.001	< 0.001							< 0.001
Silver	2022-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Silver	2023-03	mg/L	< 0.001		< 0.001	< 0.001							< 0.001
Silver	2023-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Silver	2024-03	mg/L	< 0.001		< 0.001	< 0.001							< 0.001

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Silver	2024-08	mg/L	**0.000766 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.000889 J**	< 0.001	< 0.001			< 0.001
Styrene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Styrene	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Styrene	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00
Styrene	2010-09	ug/L	< 4.00	< 4.00	< 4.00	< 4.00	< 1.00	< 1.00	< 1.00	< 4.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
Styrene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2013-11	ug/L												
Styrene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Styrene	2014-06	ug/L												
Styrene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2015-03	ug/L	< 1.00	< 1	**0.173 J**	**0.182 J**	< 1	< 1	< 1.00	< 1.00	< 1	**0.211 J**	**0.191 J**	< 1.00
Styrene	2015-06	ug/L						< 1	< 1					
Styrene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Styrene	2015-10	ug/L			< 1	< 1							< 1	< 1
Styrene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2016-06	ug/L					< 1							
Styrene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2017-11	ug/L												
Styrene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2018-06	ug/L												
Styrene	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Styrene	2018-09	ug/L							< 1	< 1				
Styrene	2018-11	ug/L											< 1	
Styrene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2019-04	ug/L												
Styrene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	2020-04	ug/L	< 1		< 1									
Styrene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Styrene	2021-03	ug/L				< 1								
Styrene	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Styrene	2022-03	ug/L				< 1								
Styrene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Styrene	2023-03	ug/L				< 1								
Styrene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Styrene	2024-03	ug/L				< 1								
Styrene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Sulfide	2008-08	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sulfide	2009-03	mg/L										< 5		< 5
Sulfide	2010-09	mg/L	< 1.0	< 1.0 U	< 1.0	< 1.0				< 1.7 U				
Sulfide	2015-06	mg/L						< 1	< 1					
Sulfide	2015-09	mg/L	< 1	**0.366 J**				< 1	< 1	< 1	< 1			
Sulfide	2015-10	mg/L			< 1	< 1								
Sulfide	2016-03	mg/L												
Sulfide	2016-06	mg/L					< 1							
Sulfide	2016-08	mg/L					< 1							
Sulfide	2018-11	mg/L											< 1	
Sulfide	2019-03	mg/L											< 1	
Sulfide	2020-08	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			
Technical Chlordane	2008-09	ug/L										< 2		< 2
Technical Chlordane	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Technical Chlordane	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00				< 2.00				
Technical Chlordane	2015-06	ug/L						< 2.17	< 2					
Technical Chlordane	2015-09	ug/L	< 2.22	< 2.22				< 2.25	< 2.04	< 2.22	< 2.2			
Technical Chlordane	2015-10	ug/L			< 2.33	< 2.27								
Technical Chlordane	2016-03	ug/L												
Technical Chlordane	2016-06	ug/L					< 2.27							
Technical Chlordane	2016-08	ug/L					< 2.11							
Technical Chlordane	2018-11	ug/L											< 2.25	
Technical Chlordane	2019-03	ug/L											< 2.33	
Technical Chlordane	2020-08	ug/L	< 2.35	< 2.44	< 2.35	< 2.35	< 2.35	< 2.35	< 2.44	< 2.35	< 2.44			
Tetrachloroethene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Tetrachloroethene	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Tetrachloroethene	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
Tetrachloroethene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2013-11	ug/L												
Tetrachloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Tetrachloroethene	2014-06	ug/L												
Tetrachloroethene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
Tetrachloroethene	2015-06	ug/L						< 1	< 1					

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Silver	2024-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Styrene	2008-08	ug/L	< 1	< 1	< 1								
Styrene	2009-03	ug/L	< 1	< 1	< 1								
Styrene	2009-07	ug/L	< 1	< 1									
Styrene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Styrene	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
Styrene	2010-09	ug/L	< 4.00	< 4.00	< 4.00								
Styrene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Styrene	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
Styrene	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
Styrene	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
Styrene	2013-03	ug/L	< 1	< 1	< 1.00								
Styrene	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Styrene	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Styrene	2015-06	ug/L											
Styrene	2015-09	ug/L	< 1	< 1	< 1								
Styrene	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Styrene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Styrene	2016-06	ug/L											
Styrene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Styrene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Styrene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Styrene	2017-11	ug/L										< 1	< 1
Styrene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Styrene	2018-06	ug/L										< 1	< 1
Styrene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
Styrene	2018-09	ug/L									< 1	< 1	< 1
Styrene	2018-11	ug/L										< 1	< 1
Styrene	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Styrene	2019-04	ug/L											< 1
Styrene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Styrene	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Styrene	2020-04	ug/L											
Styrene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Styrene	2021-03	ug/L	< 1		< 1	< 1							< 1
Styrene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Styrene	2022-03	ug/L	< 1		< 1	< 1							< 1
Styrene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Styrene	2023-03	ug/L	< 1		< 1	< 1							< 1
Styrene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Styrene	2024-03	ug/L	< 1		< 1	< 1							< 1
Styrene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Sulfide	2008-08	mg/L	< 5	< 5	< 5								
Sulfide	2009-03	mg/L			< 5								
Sulfide	2010-09	mg/L	< 1.0	< 1.0	< 1.0								
Sulfide	2015-06	mg/L											
Sulfide	2015-09	mg/L	< 1	< 1	< 1								
Sulfide	2015-10	mg/L				< 1							
Sulfide	2016-03	mg/L			< 1	< 1							
Sulfide	2016-06	mg/L											
Sulfide	2016-08	mg/L			< 1	< 1							
Sulfide	2018-11	mg/L											
Sulfide	2019-03	mg/L											
Sulfide	2020-08	mg/L	< 10	< 10	< 10	< 10							
Technical Chlordane	2008-09	ug/L			< 2								
Technical Chlordane	2009-03	ug/L	< 2	< 2	< 2								
Technical Chlordane	2010-09	ug/L	< 2.00	< 2.00	< 2.00								
Technical Chlordane	2015-06	ug/L											
Technical Chlordane	2015-09	ug/L	< 2.15	< 2.2	< 2.2								
Technical Chlordane	2015-10	ug/L				< 2.27							
Technical Chlordane	2016-03	ug/L			< 2.13	< 2.22							
Technical Chlordane	2016-06	ug/L											
Technical Chlordane	2016-08	ug/L			< 2.22	< 2.04							
Technical Chlordane	2018-11	ug/L											
Technical Chlordane	2019-03	ug/L											
Technical Chlordane	2020-08	ug/L	< 2.35	< 2.44	< 2.44	< 2.35							
Tetrachloroethene	2008-08	ug/L	< 1	< 1	< 1								
Tetrachloroethene	2009-03	ug/L	< 1	< 1	< 1								
Tetrachloroethene	2009-07	ug/L	< 1	< 1									
Tetrachloroethene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
Tetrachloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
Tetrachloroethene	2013-03	ug/L	< 1	< 1	< 1.00								
Tetrachloroethene	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Tetrachloroethene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Tetrachloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Tetrachloroethene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Tetrachloroethene	2014-09	ug/L	< 1	< 1	< 1		< 1	**0.183 J**	< 1	< 1	< 1		
Tetrachloroethene	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Tetrachloroethene	2015-06	ug/L											

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Tetrachloroethene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Tetrachloroethene	2015-10	ug/L			< 1	< 1							< 1	< 1
Tetrachloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2016-06	ug/L					< 1							
Tetrachloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2017-11	ug/L												
Tetrachloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2018-06	ug/L												
Tetrachloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Tetrachloroethene	2018-09	ug/L							< 1	< 1				
Tetrachloroethene	2018-11	ug/L											< 1	
Tetrachloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2019-04	ug/L												
Tetrachloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	2020-04	ug/L	< 1		< 1									
Tetrachloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			**0.68 J**
Tetrachloroethene	2021-03	ug/L				< 1								
Tetrachloroethene	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Tetrachloroethene	2022-03	ug/L				< 1								
Tetrachloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Tetrachloroethene	2023-03	ug/L				< 1								
Tetrachloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Tetrachloroethene	2024-03	ug/L				< 1								
Tetrachloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Thallium	2008-08	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Thallium	2009-03	mg/L	< 0.002	< 0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002
Thallium	2009-07	mg/L												
Thallium	2009-09	mg/L	< 0.00200	< 0.006		< 0.00200		< 0.002	< 0.002	< 0.01	< 0.002			
Thallium	2010-03	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2010-09	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2011-03	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2011-09	mg/L	< 0.00200	< 0.00300	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00400	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2012-03	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2012-09	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2013-03	mg/L	< 0.00200	< 0.00200	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00200	< 0.002	< 0.002	< 0.002
Thallium	2013-09	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2013-11	mg/L												
Thallium	2014-03	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Thallium	2014-06	mg/L												
Thallium	2014-09	mg/L	**0.000073 J**	< 0.001	**0.000169 J**	**0.000033 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2015-03	mg/L	**0.0000580 J**	< 0.001	**0.0000860 J**	**0.0000590 J**	**0.000036 J**	< 0.001	< 0.00100	< 0.00100	< 0.001	< 0.001	< 0.00100	< 0.00100
Thallium	2015-06	mg/L						< 0.001	< 0.001					
Thallium	2015-09	mg/L	**0.000082 J**	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Thallium	2015-10	mg/L			**0.000125 J**	< 0.001							< 0.001	< 0.001
Thallium	2016-03	mg/L	**0.000059 J**	< 0.001	**0.000089 J**	< 0.001	**0.000031 J**	< 0.001	< 0.001	< 0.001	< 0.001	**0.000033 J**	< 0.001	< 0.001
Thallium	2016-06	mg/L					< 0.001							
Thallium	2016-08	mg/L	< 0.001	< 0.001	**0.000081 J**	**0.000029 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2017-03	mg/L	**0.000094 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2017-08	mg/L	< 0.001	< 0.001	**0.000095 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2017-11	mg/L												
Thallium	2018-03	mg/L	**0.000085 J**	< 0.001	**0.000078 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2018-06	mg/L												
Thallium	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2018-09	mg/L							< 0.001	< 0.001				
Thallium	2018-11	mg/L											< 0.001	
Thallium	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2019-04	mg/L												
Thallium	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2020-03	mg/L		< 0.001		< 0.001	< 0.004	< 0.001	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium	2020-04	mg/L	< 0.001		< 0.001									
Thallium	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Thallium	2021-03	mg/L				< 0.001								
Thallium	2021-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Thallium	2022-03	mg/L				< 0.001								
Thallium	2022-08	mg/L	< 0.001	**0.000527 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Thallium	2023-03	mg/L				**0.000975 J**								
Thallium	2023-08	mg/L	**0.000504 J**	< 0.001	**0.00039 J**	< 0.001	< 0.001	< 0.001	< 0.001	**0.00241**	**0.00307**			< 0.001
Thallium	2024-03	mg/L				< 0.001								
Thallium	2024-08	mg/L	**0.000782 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Thionazin	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thionazin	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thionazin	2009-07	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10	< 10.0
Thionazin	2009-09	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Thionazin	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Thionazin	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Thionazin	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0				< 10.0				
Thionazin	2012-03	ug/L												
Thionazin	2012-09	ug/L												
Thionazin	2013-03	ug/L												
Thionazin	2015-06	ug/L						< 10.5	< 11.1					
Thionazin	2015-09	ug/L	< 11.1	< 11.2				< 11.1	< 10.2	< 11.2	< 11.1			
Thionazin	2015-10	ug/L			< 10.3	< 10.5								
Thionazin	2016-03	ug/L												
Thionazin	2016-06	ug/L					< 11.4							
Thionazin	2016-08	ug/L					< 11							

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Tetrachloroethene	2015-09	ug/L	< 1	< 1	< 1								
Tetrachloroethene	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Tetrachloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Tetrachloroethene	2016-06	ug/L											
Tetrachloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Tetrachloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Tetrachloroethene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Tetrachloroethene	2017-11	ug/L										< 1	< 1
Tetrachloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Tetrachloroethene	2018-06	ug/L										< 1	< 1
Tetrachloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
Tetrachloroethene	2018-09	ug/L									< 1	< 1	< 1
Tetrachloroethene	2018-11	ug/L										< 1	< 1
Tetrachloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Tetrachloroethene	2019-04	ug/L											< 1
Tetrachloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Tetrachloroethene	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Tetrachloroethene	2020-04	ug/L											
Tetrachloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Tetrachloroethene	2021-03	ug/L	< 1		< 1	< 1							< 1
Tetrachloroethene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Tetrachloroethene	2022-03	ug/L	< 1		< 1	< 1							< 1
Tetrachloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Tetrachloroethene	2023-03	ug/L	< 1		< 1	< 1							< 1
Tetrachloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Tetrachloroethene	2024-03	ug/L	< 1		< 1	< 1							< 1
Tetrachloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Thallium	2008-08	mg/L	< 0.002	< 0.002	< 0.002								
Thallium	2009-03	mg/L	< 0.002	< 0.002	< 0.002								
Thallium	2009-07	mg/L			< 0.00200								
Thallium	2009-09	mg/L	< 0.00200	< 0.00200	< 0.00200								
Thallium	2010-03	mg/L	< 0.00200	< 0.00200	< 0.00200								
Thallium	2010-09	mg/L	< 0.00200	< 0.00200	< 0.00200								
Thallium	2011-03	mg/L	< 0.00200	< 0.00200	< 0.00200								
Thallium	2011-09	mg/L	< 0.00200	< 0.00200	< 0.00200								
Thallium	2012-03	mg/L	< 0.00200	< 0.00200	< 0.00200								
Thallium	2012-09	mg/L	< 0.00200	< 0.00200	< 0.00200								
Thallium	2013-03	mg/L	< 0.002	< 0.002	< 0.00200								
Thallium	2013-09	mg/L	< 0.00200	< 0.00200	< 0.00200	~~< 0.00200~~	< 0.00200	< 0.00200	< 0.00200	< 0.00200	**0.00250**		
Thallium	2013-11	mg/L				~~< 0.00200~~	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200		
Thallium	2014-03	mg/L	< 0.00200	< 0.00200	< 0.00200	~~< 0.00200~~	< 0.00200	< 0.00200	< 0.00200	< 0.00200	**0.00105 J**		
Thallium	2014-06	mg/L				~~< 0.00200~~	< 0.00200	< 0.00200	< 0.00200	< 0.00200	**0.000767 J**		
Thallium	2014-09	mg/L	**0.000084 J**	< 0.001	**0.000033 J**	~~**0.000097 J**~~	**0.000036 J**	**0.000052 J**	< 0.001	< 0.001	**0.00237**		
Thallium	2015-03	mg/L	**0.000107 J**	**0.0000330 J**	< 0.001	~~< 0.00100~~	**0.0000490 J**	**0.0000770 J**	**0.000139 J**	< 0.00100	**0.00186**		
Thallium	2015-06	mg/L											
Thallium	2015-09	mg/L	**0.000124 J**	< 0.001	**0.000037 J**								
Thallium	2015-10	mg/L				**0.000087 J**	**0.000052 J**	**0.000068 J**		< 0.001	**0.00166**		
Thallium	2016-03	mg/L	**0.000091 J**	< 0.001	**0.000033 J**	**0.000034 J**	< 0.001	**0.000032 J**		< 0.001	**0.00132**		
Thallium	2016-06	mg/L											
Thallium	2016-08	mg/L	**0.000101 J**	**0.000066 J**	< 0.001	< 0.001	**0.000041 J**	**0.000047 J**		< 0.001	**0.00128**		
Thallium	2017-03	mg/L	**0.000124 J**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	**0.00309**		
Thallium	2017-08	mg/L	**0.000123 J**	< 0.001	< 0.001	**0.00008 J**	< 0.001	< 0.001		< 0.001	**0.0037**		
Thallium	2017-11	mg/L										< 0.001	**0.00463**
Thallium	2018-03	mg/L	**0.000116 J**	< 0.001	< 0.001	**0.000065 J**	< 0.001	< 0.001		< 0.001	**0.003**	< 0.001	**0.0052**
Thallium	2018-06	mg/L										< 0.001	**0.00513**
Thallium	2018-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001		< 0.001			
Thallium	2018-09	mg/L									**0.00289**	< 0.001	**0.00531**
Thallium	2018-11	mg/L										< 0.001	**0.00453**
Thallium	2019-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	**0.00328**	< 0.001	
Thallium	2019-04	mg/L											**0.00464**
Thallium	2019-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	**0.00425**	< 0.001	**0.00482**
Thallium	2020-03	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	**0.00341**	< 0.001	**0.00557**
Thallium	2020-04	mg/L											
Thallium	2020-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	**0.00286**	< 0.001	**0.00446**
Thallium	2021-03	mg/L	< 0.001		< 0.001	< 0.001							**0.00525**
Thallium	2021-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			**0.00445**	**0.0053**	< 0.001	**0.00475**
Thallium	2022-03	mg/L	< 0.001		< 0.001	< 0.001							**0.00456**
Thallium	2022-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	**0.00406**	< 0.001	**0.00557**
Thallium	2023-03	mg/L	< 0.001		< 0.001	< 0.001							**0.00515**
Thallium	2023-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	**0.002**	< 0.001	**0.00342**
Thallium	2024-03	mg/L	< 0.001		< 0.001	< 0.001							**0.00452**
Thallium	2024-08	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	**0.00181**	< 0.001	**0.00378**
Thionazin	2008-08	ug/L	< 10	< 10	< 10								
Thionazin	2009-03	ug/L	< 10	< 10	< 10								
Thionazin	2009-07	ug/L	< 10	< 10	< 10.0								
Thionazin	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
Thionazin	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
Thionazin	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
Thionazin	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
Thionazin	2012-03	ug/L			< 10.0								
Thionazin	2012-09	ug/L			< 10.0								
Thionazin	2013-03	ug/L			< 10.4								
Thionazin	2015-06	ug/L											
Thionazin	2015-09	ug/L	< 10.9	< 10.5	< 11.2								
Thionazin	2015-10	ug/L				< 10.6							
Thionazin	2016-03	ug/L			< 10	< 10							
Thionazin	2016-06	ug/L											
Thionazin	2016-08	ug/L			< 11.1	< 11.5							

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Thionazin	2018-11	ug/L											< 11.6	
Thionazin	2019-03	ug/L											< 12.2	
Thionazin	2020-08	ug/L	< 11.8	< 12.2	< 10.8	< 10.9	< 11.4	< 11.4	< 11.2	< 11.8	< 11.9			
Tin	2008-08	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tin	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tin	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tin	2009-09	mg/L	< 0.100	< 0.1		< 0.100		< 0.1	< 0.1	< 0.1	**0.104**	< 0.1		
Tin	2010-03	mg/L	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
Tin	2010-09	mg/L	< 0.100	< 0.100	< 0.100	< 0.100				< 0.100				
Tin	2011-03	mg/L	**0.210**	**0.143**	**0.171**	< 0.100				**0.134**				
Tin	2011-09	mg/L	< 0.100	< 0.100	< 0.100					< 0.100				
Tin	2012-03	mg/L	< 0.100	< 0.100	< 0.100					< 0.100	< 0.100			
Tin	2012-09	mg/L	< 0.100	< 0.100	< 0.100					< 0.100	< 0.100			
Tin	2013-03	mg/L	< 0.100	< 0.200	< 0.1					< 0.1	< 0.100			
Tin	2013-09	mg/L	< 0.100	< 0.100	< 0.100					< 0.100	< 0.100			
Tin	2013-11	mg/L												
Tin	2014-03	mg/L	< 0.100	< 0.200	< 0.100					< 0.200	< 0.100			
Tin	2014-06	mg/L												
Tin	2014-09	mg/L	**0.126**	**0.111**	**0.104**					**0.113**	**0.0975 J**			
Tin	2015-03	mg/L	< 0.100	< 0.3	< 0.100					< 0.100	< 0.1			
Tin	2015-06	mg/L						< 0.005	< 0.005					
Tin	2015-09	mg/L	< 0.005	< 0.005				< 0.005	< 0.005	< 0.005	< 0.005			
Tin	2015-10	mg/L			< 0.005	< 0.005								
Tin	2016-03	mg/L	< 0.005	**0.00133 J**	< 0.005					< 0.005	< 0.005			
Tin	2016-06	mg/L					< 0.005							
Tin	2016-08	mg/L	< 0.005	**0.00127 J**	< 0.005		< 0.005			< 0.005	< 0.005			
Tin	2017-03	mg/L	< 0.005	< 0.005	< 0.005					< 0.005	< 0.005			
Tin	2017-08	mg/L	< 0.005	< 0.005	< 0.005					< 0.005	< 0.005			
Tin	2018-03	mg/L	< 0.005	< 0.005	< 0.005					< 0.005	< 0.005			
Tin	2018-08	mg/L	< 0.005	**0.000982 J**	**0.000942 J**						**0.0011 J**			
Tin	2018-09	mg/L								< 0.005				
Tin	2018-11	mg/L											< 0.005	
Tin	2019-03	mg/L	< 0.005	< 0.005	< 0.005					< 0.005	< 0.005		< 0.005	
Tin	2019-08	mg/L	< 0.005	< 0.005	< 0.005					< 0.005	**0.00205 J**			
Tin	2020-03	mg/L		< 0.005						< 0.005	< 0.005			
Tin	2020-04	mg/L	< 0.005		< 0.005									
Tin	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Tin	2021-03	mg/L												
Tin	2021-08	mg/L	< 0.005	< 0.005	< 0.005					< 0.005	< 0.005			
Tin	2022-03	mg/L												
Tin	2022-08	mg/L	< 0.005	< 0.005	< 0.005					< 0.005	< 0.005			
Tin	2023-03	mg/L												
Tin	2023-08	mg/L	< 0.005	< 0.005	< 0.005					< 0.005	< 0.005			
Tin	2024-03	mg/L												
Tin	2024-08	mg/L	< 0.005	< 0.005	< 0.005					< 0.005	< 0.005			
Toluene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	< 1.00	< 1			
Toluene	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Toluene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2013-03	ug/L	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1.00	< 1	< 1	< 1
Toluene	2013-09	ug/L	< 1.00	< 1.00 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2013-11	ug/L												
Toluene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	2014-06	ug/L												
Toluene	2014-09	ug/L	< 1	< 1	< 1	**0.166 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	**0.177 J**	< 1	< 1	< 1.00	< 1.00
Toluene	2015-06	ug/L						< 1	< 1					
Toluene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Toluene	2015-10	ug/L			< 1	< 1							< 1	< 1
Toluene	2016-03	ug/L	< 1	< 1	< 1	< 1 J	< 1	< 1	< 1	< 1 J	< 1	< 1	< 1	< 1
Toluene	2016-06	ug/L					**0.214 J**							
Toluene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.08**	< 1	< 1	< 1	< 1
Toluene	2017-03	ug/L	< 1	**1.19**	< 1	< 1	< 1	< 1	< 1	< 1	**0.177 J**	< 1	< 1	**0.168 J**
Toluene	2017-08	ug/L	< 1	**0.456 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.154 J**	**0.39 J**	**0.3 J**	< 1
Toluene	2017-11	ug/L												
Toluene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.185 J**	< 1	**0.332 J**	< 1
Toluene	2018-06	ug/L												
Toluene	2018-08	ug/L	< 1	< 1	< 1	**0.572 J**	< 1	< 1			< 1	**0.438 J**	< 1	< 1
Toluene	2018-09	ug/L							< 1	< 1				
Toluene	2018-11	ug/L											< 1	
Toluene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2019-04	ug/L												
Toluene	2019-08	ug/L	< 1	**0.445 J**	< 1	**1.14**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	2020-04	ug/L	< 1		< 1									
Toluene	2020-08	ug/L	< 1	< 1	< 1	**0.681 J**	< 1	< 1	< 1	< 1	< 1			< 1
Toluene	2021-03	ug/L				< 1								
Toluene	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Toluene	2022-03	ug/L				< 1								
Toluene	2022-08	ug/L	< 1	< 1	< 1	**0.475 J**	< 1	< 1	< 1	< 1	< 1			< 1
Toluene	2023-03	ug/L				< 1								
Toluene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Thionazin	2018-11	ug/L											
Thionazin	2019-03	ug/L											
Thionazin	2020-08	ug/L	< 11.8	< 11	< 11.8	< 11.8							
Tin	2008-08	mg/L	< 0.1	< 0.1	< 0.1								
Tin	2009-03	mg/L	< 0.05	< 0.05	< 0.05								
Tin	2009-07	mg/L	< 0.05	< 0.05	< 0.05								
Tin	2009-09	mg/L	< 0.100	< 0.100	< 0.100								
Tin	2010-03	mg/L	< 0.100	< 0.100	< 0.100								
Tin	2010-09	mg/L	< 0.100	< 0.100	< 0.100								
Tin	2011-03	mg/L	**0.128**	**0.173 J**	**0.109**								
Tin	2011-09	mg/L	< 0.100	< 0.100	< 0.100								
Tin	2012-03	mg/L	< 0.100	< 0.100	< 0.100								
Tin	2012-09	mg/L	< 0.100	< 0.100	< 0.100								
Tin	2013-03	mg/L	< 0.1	< 0.1	< 0.100								
Tin	2013-09	mg/L	< 0.100	< 0.100	< 0.100	~~< 0.100~~							
Tin	2013-11	mg/L				~~**0.591**~~							
Tin	2014-03	mg/L	< 0.100	< 0.100	< 0.100	~~< 0.100~~							
Tin	2014-06	mg/L				~~< 0.100~~							
Tin	2014-09	mg/L	**0.0954 J**	**0.12**	**0.0592 J**	~~**0.105**~~							
Tin	2015-03	mg/L	< 0.100	< 0.100	< 0.1	~~< 0.100~~							
Tin	2015-06	mg/L											
Tin	2015-09	mg/L	< 0.005	< 0.005	< 0.005								
Tin	2015-10	mg/L				< 0.005							
Tin	2016-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2016-06	mg/L											
Tin	2016-08	mg/L	< 0.005	**0.00166 J**	< 0.005	< 0.005							
Tin	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2018-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2018-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2018-09	mg/L											
Tin	2018-11	mg/L											
Tin	2019-03	mg/L	**0.00491 J**	< 0.005	< 0.005	< 0.005							
Tin	2019-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2020-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2020-04	mg/L											
Tin	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005				< 0.005	< 0.005		< 0.005
Tin	2021-03	mg/L	< 0.005		< 0.005	< 0.005							
Tin	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2022-03	mg/L	< 0.005		< 0.005	< 0.005							
Tin	2022-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2023-03	mg/L	< 0.005		< 0.005	< 0.005							
Tin	2023-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Tin	2024-03	mg/L	< 0.005		< 0.005	< 0.005							
Tin	2024-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005							
Toluene	2008-08	ug/L	< 1	< 1	< 1								
Toluene	2009-03	ug/L	< 1	< 1	< 1								
Toluene	2009-07	ug/L	< 1	< 1									
Toluene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Toluene	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
Toluene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
Toluene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Toluene	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
Toluene	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
Toluene	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
Toluene	2013-03	ug/L	< 1	< 1	< 1.00								
Toluene	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Toluene	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Toluene	2015-06	ug/L											
Toluene	2015-09	ug/L	< 1	< 1	< 1								
Toluene	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Toluene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Toluene	2016-06	ug/L											
Toluene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Toluene	2017-03	ug/L	**0.216 J**	< 1	**0.315 J**	< 1	< 1	< 1		< 1	< 1		
Toluene	2017-08	ug/L	< 1	< 1	**0.325 J**	< 1	< 1	< 1		< 1	< 1		
Toluene	2017-11	ug/L										< 1	< 1
Toluene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	**0.617 J**	**0.281 J**
Toluene	2018-06	ug/L										< 1	< 1
Toluene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
Toluene	2018-09	ug/L									< 1	< 1	< 1
Toluene	2018-11	ug/L										< 1	< 1
Toluene	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Toluene	2019-04	ug/L											< 1
Toluene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Toluene	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Toluene	2020-04	ug/L											
Toluene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	**1.01**	< 1	< 1
Toluene	2021-03	ug/L	< 1		< 1	< 1							< 1
Toluene	2021-08	ug/L	< 1	**0.555 J**	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Toluene	2022-03	ug/L	< 1		< 1	< 1							< 1
Toluene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Toluene	2023-03	ug/L	< 1		< 1	< 1							< 1
Toluene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Toluene	2024-03	ug/L				< 1								
Toluene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Total Suspended Solids	2014-09	mg/L	**2.25**	**36**	**6.38**	**69**	**1.63 J**	**2.88**	**5.14**	**48.8**	**4.13**	**1.88**	< 1.88	**1.75 J**
Total Suspended Solids	2015-03	mg/L	**1.76**	**50.7**	**3.00**	**54.7**	**3**	**5.17**	**4.20**	**49.0**	**3.83**	**10.8**	< 2.50	**5.83**
Total Suspended Solids	2015-06	mg/L						**6.87**	**4.38**					
Total Suspended Solids	2015-09	mg/L	< 1.88	**30.5**			**2.63**	**5**	**3.87**	**42.1**	**3**	**3.13**		
Total Suspended Solids	2015-10	mg/L			**2.13**	**58.7**							< 1.88	**6.2**
Total Suspended Solids	2016-03	mg/L	**1.63 J**	**34.7**	< 1.88	**138**	**2.5**	< 16.1 J	< 10.8 J	**51.3**	**1.88**	**1.5 J**	**1.25 J**	**3.75**
Total Suspended Solids	2016-06	mg/L					**2.75**							
Total Suspended Solids	2016-08	mg/L	**6.63**	**44**	**7.25**	**100**	**2.63**	**5.13**	**6.25**	**49.6**	**3**	**2.38**	**2.25**	**4.25**
Total Suspended Solids	2017-03	mg/L	< 1.88	**24.1**	**0.75 J**	**112**	**1.63 J**	**4.2**	**7.38**	**49.2**	**2.13**	**2.25**	< 1.88	**3.63**
Total Suspended Solids	2017-08	mg/L	< 1.88	**21.9**	**2**	**108**	**2.13**	**4.5**	**3.25**	**54**	**2.63**	**4.25**	**0.875 J**	**5.25**
Total Suspended Solids	2017-11	mg/L												
Total Suspended Solids	2018-03	mg/L	< 1.88	**28**	**2.13**	**81.5**	**0.75 J**	**5.25**	**14.9**	**41.2**	**4.25**	**2**	**3**	**6**
Total Suspended Solids	2018-06	mg/L												
Total Suspended Solids	2018-08	mg/L	**1.75 J**	**28.7**	**1.75 J**	**63**	**2.88**	**4.75**			**5**	**3.63**	**0.875 J**	**9.38**
Total Suspended Solids	2018-09	mg/L							**8.63**	**32.5**				
Total Suspended Solids	2018-11	mg/L											**0.875 J**	
Total Suspended Solids	2019-03	mg/L	**4.5**	**27**	**3.63**	**111**	**3.75**	**4.88**	**5.63**	**38.7**	**4.88**	**2.38**	< 1.88	**6**
Total Suspended Solids	2019-04	mg/L												
Total Suspended Solids	2019-08	mg/L	< 1.88	**20.5**	< 1.88	**82.7**	**2.5**	**4.62**	**3.75**	**47**	**4.5**	< 1.88	**1.63 J**	**5.12**
Total Suspended Solids	2020-03	mg/L		**36**		**88**	**1.13 J**	**2.88**	**2.75**	**45**	**2.5**	< 1.88	**1.5 J**	**3.5 J**
Total Suspended Solids	2020-04	mg/L	< 1.88		**1.5 J**									
Total Suspended Solids	2020-08	mg/L	**0.75 J**	**19**	**1.75 J**	**58.7**	**2**	**1.38 J**	**5.37**	**39.1**	**2.63**			**4.13**
Total Suspended Solids	2021-03	mg/L				**64**								
Total Suspended Solids	2021-08	mg/L	**2.75**	**23.5**	< 1.88	**93**	**2.88**	**3.63**	**5.5**	**45.8**	**2.38**			**2**
Total Suspended Solids	2022-03	mg/L				**38.5**								
Total Suspended Solids	2022-08	mg/L	**1.25 J**	**19**	**1.75 J**	**48**	**3**	**5.5**	**7.88**	**41**	**2.5**			**3.5**
Total Suspended Solids	2023-03	mg/L				**33**								
Total Suspended Solids	2023-08	mg/L	< 1.88	**22.7**	**2.88**	**53**	**2.63**	**3.87**	**3.13**	**41.8**	**3.13**			**3**
Total Suspended Solids	2024-03	mg/L				**77**								
Total Suspended Solids	2024-08	mg/L	**4.75**	**22.5**	< 1.88	**61**	**3.63**	**3.4**	**5.2**	**33.5**	**4.25**			**2.13**
Toxaphene	2008-08	ug/L	< 0.54	< 0.53	< 0.47	< 0.47	< 0.52	< 0.53	< 0.54	< 0.56	< 0.53		< 0.53	
Toxaphene	2008-09	ug/L										< 2		< 2
Toxaphene	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toxaphene	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00				< 2.00				
Toxaphene	2015-06	ug/L						< 2.17	< 2					
Toxaphene	2015-09	ug/L	< 2.22	< 2.22				< 2.25	< 2.04	< 2.22	< 2.2			
Toxaphene	2015-10	ug/L			< 2.33	< 2.27								
Toxaphene	2016-03	ug/L												
Toxaphene	2016-06	ug/L					< 2.27							
Toxaphene	2016-08	ug/L					< 2.11							
Toxaphene	2018-11	ug/L											< 2.25	
Toxaphene	2019-03	ug/L											< 2.33	
Toxaphene	2020-08	ug/L	< 2.35	< 2.44	< 2.35	< 2.35	< 2.35	< 2.35	< 2.44	< 2.35	< 2.44			
trans-1,2-Dichloroethene	2008-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2009-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2009-07	ug/L	< 1	< 1	< 1	< 1		< 1	< 1.00	**1.09**	< 1			
trans-1,2-Dichloroethene	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
trans-1,2-Dichloroethene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.26**	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2013-03	ug/L	< 1.00	**0.280 J**	< 1	**0.438 J**	< 1	< 1	< 1	**0.86 J**	< 1.00	< 1	< 1	< 1
trans-1,2-Dichloroethene	2013-09	ug/L	< 1.00	**0.444 J**	< 1.00	**0.213 J**	< 1.00	< 1.00	< 1.00	**0.513 J**	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2013-11	ug/L												
trans-1,2-Dichloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
trans-1,2-Dichloroethene	2014-06	ug/L												
trans-1,2-Dichloroethene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	**0.313 J**	< 1	< 1	< 1.00	< 1.00
trans-1,2-Dichloroethene	2015-06	ug/L						< 1	< 1					
trans-1,2-Dichloroethene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
trans-1,2-Dichloroethene	2015-10	ug/L			< 1	< 1							< 1	< 1
trans-1,2-Dichloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.03**	**0.352 J**	< 1	< 1	< 1
trans-1,2-Dichloroethene	2016-06	ug/L					< 1							
trans-1,2-Dichloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.569 J**	**0.243 J**	< 1	< 1	< 1
trans-1,2-Dichloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.329 J**	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2017-08	ug/L	< 1	< 1	< 1	**0.212 J**	< 1	< 1	< 1	**0.361 J**	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2017-11	ug/L												
trans-1,2-Dichloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.368 J**	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2018-06	ug/L												
trans-1,2-Dichloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2018-09	ug/L							< 1	< 1				
trans-1,2-Dichloroethene	2018-11	ug/L											< 1	
trans-1,2-Dichloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.306 J**	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2019-04	ug/L												
trans-1,2-Dichloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.474 J**	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	**0.598 J**	**0.277 J**	< 1	< 1	< 1
trans-1,2-Dichloroethene	2020-04	ug/L	< 1		< 1									
trans-1,2-Dichloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.471 J**	< 1			< 1
trans-1,2-Dichloroethene	2021-03	ug/L				< 1								
trans-1,2-Dichloroethene	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	**0.359 J**	**0.412 J**			< 1
trans-1,2-Dichloroethene	2022-03	ug/L				< 1								
trans-1,2-Dichloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
trans-1,2-Dichloroethene	2023-03	ug/L				< 1								
trans-1,2-Dichloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Toluene	2024-03	ug/L	< 1		< 1	< 1							< 1
Toluene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Total Suspended Solids	2014-09	mg/L	**10.7**	**22**	**2.5**	**165**	**13.8**	**4.13**	**30**	**13.2**	**7.67**		
Total Suspended Solids	2015-03	mg/L	**11.5**	**28.5**	< 2.5	**9.88**	**66.2**	**15.3**	**10.2**	**1.76**	**2.47**		
Total Suspended Solids	2015-06	mg/L											
Total Suspended Solids	2015-09	mg/L	**15**	**31.1**	< 1.88								
Total Suspended Solids	2015-10	mg/L				< 1.88	< 1.88	< 1.88	**17.3**	< 1.88	< 1.88		
Total Suspended Solids	2016-03	mg/L	**12.4**	**31**	< 1.88	< 1.76	< 1.76	< 1.88	**4.38**	**1.92**	< 1.88		
Total Suspended Solids	2016-06	mg/L											
Total Suspended Solids	2016-08	mg/L	**11.6**	**34.4**	**0.875 J**	< 1.88	**0.75 J**	< 1.88	**10.6**	**6.12**	**1 J**		
Total Suspended Solids	2017-03	mg/L	**11.9**	**27.1**	< 1.88	< 1.88	< 1.88	< 1.88	**5**	< 1.88	**0.875 J**		
Total Suspended Solids	2017-08	mg/L	**13.5**	**35**	< 1.88	< 1.88	< 1.88	< 1.88	**4.5**	< 1.88	**0.625 J**		
Total Suspended Solids	2017-11	mg/L										< 1.88	**12.8**
Total Suspended Solids	2018-03	mg/L	**14.3**	**28**	< 1.88	< 1.88	**1 J**	< 1.88	**7.75**	< 1.88	**0.625 J**	**1.63 J**	**9**
Total Suspended Solids	2018-06	mg/L										**1 J**	**9.75**
Total Suspended Solids	2018-08	mg/L	**10.4**	**35.5**	**0.75 J**	< 1.88		< 1.88	**4.62**	**0.75 J**			
Total Suspended Solids	2018-09	mg/L									< 1.88	**0.75 J**	**10.1**
Total Suspended Solids	2018-11	mg/L										**1 J**	**15.8**
Total Suspended Solids	2019-03	mg/L	**19**	**27.6**	**34.9**	< 1.88		< 1.88	**6.25**	**2.13**	**1.63 J**	**1.88**	
Total Suspended Solids	2019-04	mg/L											**12**
Total Suspended Solids	2019-08	mg/L	**13.3**	**31**	**0.75 J**	< 1.88	**5.13**	< 1.88	**14.6**	**2.25**	< 1.88	**1 J**	**10.9**
Total Suspended Solids	2020-03	mg/L	**14**	**26**	**1.75 J**	< 1.88	**4.62**	< 1.88	**2.38**	**1.5 J**	**3.13**	**1 J**	**13**
Total Suspended Solids	2020-04	mg/L											
Total Suspended Solids	2020-08	mg/L	**9.5**	**30**	< 1.88	**5.5**	**1.38 J**		**4.5**	**2.38**	< 1.88	< 1.88	**10.5**
Total Suspended Solids	2021-03	mg/L	**17.7**		< 1.88	< 1.88							**11**
Total Suspended Solids	2021-08	mg/L	**9.88**	**31.5**	< 1.88	< 1.88	**0.75 J**		**2.63**	**1.63 J**	< 1.88	**8.25**	**10.9**
Total Suspended Solids	2022-03	mg/L	**8.63**		**0.875 J**	< 1.88							**10.4**
Total Suspended Solids	2022-08	mg/L	**9.67**	**28**	< 1.88	< 1.88	< 1.88		**2.63**	< 1.88	< 1.88	**1.38 J**	**12**
Total Suspended Solids	2023-03	mg/L	**9**		< 1.88	< 1.88							**11**
Total Suspended Solids	2023-08	mg/L	**13.5**	**17.3**	< 1.88	< 1.88	< 1.88		**2.25**	**0.75 J**	**0.875 J**	**1.38 J**	**11.3**
Total Suspended Solids	2024-03	mg/L	**11.8**		< 1.88	**0.75 J**							**10**
Total Suspended Solids	2024-08	mg/L	**12.3**	**23.5**	< 1.88	< 1.88	< 1.88		**2.88**	**1.75 J**	< 1.88	< 1.88	**10.8**
Toxaphene	2008-08	ug/L	< 0.47	< 0.53									
Toxaphene	2008-09	ug/L			< 2								
Toxaphene	2009-03	ug/L	< 2	< 2	< 2								
Toxaphene	2010-09	ug/L	< 2.00	< 2.00	< 2.00								
Toxaphene	2015-06	ug/L											
Toxaphene	2015-09	ug/L	< 2.15	< 2.2	< 2.2								
Toxaphene	2015-10	ug/L				< 2.27							
Toxaphene	2016-03	ug/L			< 2.13	< 2.22							
Toxaphene	2016-06	ug/L											
Toxaphene	2016-08	ug/L			< 2.22	< 2.04							
Toxaphene	2018-11	ug/L											
Toxaphene	2019-03	ug/L											
Toxaphene	2020-08	ug/L	< 2.35	< 2.44	< 2.44	< 2.35							
trans-1,2-Dichloroethene	2008-08	ug/L	< 1	< 1	< 1								
trans-1,2-Dichloroethene	2009-03	ug/L	< 1	< 1	< 1								
trans-1,2-Dichloroethene	2009-07	ug/L	< 1	< 1									
trans-1,2-Dichloroethene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
trans-1,2-Dichloroethene	2013-03	ug/L	< 1	< 1	< 1.00								
trans-1,2-Dichloroethene	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
trans-1,2-Dichloroethene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
trans-1,2-Dichloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
trans-1,2-Dichloroethene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
trans-1,2-Dichloroethene	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
trans-1,2-Dichloroethene	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
trans-1,2-Dichloroethene	2015-06	ug/L											
trans-1,2-Dichloroethene	2015-09	ug/L	< 1	< 1	< 1								
trans-1,2-Dichloroethene	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
trans-1,2-Dichloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
trans-1,2-Dichloroethene	2016-06	ug/L											
trans-1,2-Dichloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
trans-1,2-Dichloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
trans-1,2-Dichloroethene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
trans-1,2-Dichloroethene	2017-11	ug/L										< 1	< 1
trans-1,2-Dichloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2018-06	ug/L										< 1	< 1
trans-1,2-Dichloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
trans-1,2-Dichloroethene	2018-09	ug/L									< 1	< 1	< 1
trans-1,2-Dichloroethene	2018-11	ug/L										< 1	< 1
trans-1,2-Dichloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
trans-1,2-Dichloroethene	2019-04	ug/L											< 1
trans-1,2-Dichloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2020-04	ug/L											
trans-1,2-Dichloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2021-03	ug/L	< 1		< 1	< 1							< 1
trans-1,2-Dichloroethene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2022-03	ug/L	< 1		< 1	< 1							< 1
trans-1,2-Dichloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	2023-03	ug/L	< 1		< 1	< 1							< 1
trans-1,2-Dichloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
trans-1,2-Dichloroethene	2024-03	ug/L				< 1								
trans-1,2-Dichloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.376 J**	< 1			< 1
trans-1,3-Dichloropropene	2008-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2009-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2009-07	ug/L	< 5	< 5	< 5	< 5		< 5	< 5.00	< 5.00	< 5			
trans-1,3-Dichloropropene	2009-09	ug/L	< 5.00	< 5	< 5.00	< 25.0		< 5	< 5	< 5	< 5			
trans-1,3-Dichloropropene	2010-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 5.00	< 5.00	< 5.00	< 10.0	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2011-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2011-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2012-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2012-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2013-03	ug/L	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	< 5.00	< 5	< 5	< 5
trans-1,3-Dichloropropene	2013-09	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2013-11	ug/L												
trans-1,3-Dichloropropene	2014-03	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	2014-06	ug/L												
trans-1,3-Dichloropropene	2014-09	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2015-03	ug/L	< 5.00	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00	< 5	< 5	< 5.00	< 5.00
trans-1,3-Dichloropropene	2015-06	ug/L						< 5	< 5					
trans-1,3-Dichloropropene	2015-09	ug/L	< 5	< 5			< 5	< 5	< 5	< 5	< 5	< 5		
trans-1,3-Dichloropropene	2015-10	ug/L			< 5	< 5							< 5	< 5
trans-1,3-Dichloropropene	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2016-06	ug/L					< 5							
trans-1,3-Dichloropropene	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2017-11	ug/L												
trans-1,3-Dichloropropene	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2018-06	ug/L												
trans-1,3-Dichloropropene	2018-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2018-09	ug/L							< 5	< 5				
trans-1,3-Dichloropropene	2018-11	ug/L											< 5	
trans-1,3-Dichloropropene	2019-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2019-04	ug/L												
trans-1,3-Dichloropropene	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2020-03	ug/L		< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2020-04	ug/L	< 5		< 5									
trans-1,3-Dichloropropene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
trans-1,3-Dichloropropene	2021-03	ug/L				< 5								
trans-1,3-Dichloropropene	2021-08	ug/L	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
trans-1,3-Dichloropropene	2022-03	ug/L				< 5								
trans-1,3-Dichloropropene	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
trans-1,3-Dichloropropene	2023-03	ug/L				< 5								
trans-1,3-Dichloropropene	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
trans-1,3-Dichloropropene	2024-03	ug/L				< 5								
trans-1,3-Dichloropropene	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5			< 5
trans-1,4-Dichloro-2-butene	2008-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2009-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2009-07	ug/L	< 10	< 10	< 10	< 10		< 10	< 10.0	< 10.0	< 10			
trans-1,4-Dichloro-2-butene	2009-09	ug/L	< 10.0	< 10	< 10.0	< 50.0		< 10	< 10	< 10	< 10			
trans-1,4-Dichloro-2-butene	2010-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2010-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2011-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2011-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2012-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2012-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2013-03	ug/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2013-09	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2013-11	ug/L												
trans-1,4-Dichloro-2-butene	2014-03	ug/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2014-06	ug/L												
trans-1,4-Dichloro-2-butene	2014-09	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2015-03	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0
trans-1,4-Dichloro-2-butene	2015-06	ug/L						< 10	< 10					
trans-1,4-Dichloro-2-butene	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
trans-1,4-Dichloro-2-butene	2015-10	ug/L			< 10	< 10							< 10	< 10
trans-1,4-Dichloro-2-butene	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**8.06 J**	< 10	< 10
trans-1,4-Dichloro-2-butene	2016-06	ug/L					< 10							
trans-1,4-Dichloro-2-butene	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2017-11	ug/L												
trans-1,4-Dichloro-2-butene	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2018-06	ug/L												
trans-1,4-Dichloro-2-butene	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2018-09	ug/L							< 10	< 10				
trans-1,4-Dichloro-2-butene	2018-11	ug/L											< 10	
trans-1,4-Dichloro-2-butene	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2019-04	ug/L												
trans-1,4-Dichloro-2-butene	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2020-03	ug/L		< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2020-04	ug/L	< 10		< 10									
trans-1,4-Dichloro-2-butene	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
trans-1,4-Dichloro-2-butene	2021-03	ug/L				< 10								
trans-1,4-Dichloro-2-butene	2021-08	ug/L	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
trans-1,4-Dichloro-2-butene	2022-03	ug/L				< 10								
trans-1,4-Dichloro-2-butene	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
trans-1,2-Dichloroethene	2024-03	ug/L	< 1		< 1	< 1							< 1
trans-1,2-Dichloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	2008-08	ug/L	< 5	< 5	< 5								
trans-1,3-Dichloropropene	2009-03	ug/L	< 5	< 5	< 5								
trans-1,3-Dichloropropene	2009-07	ug/L	< 5	< 5									
trans-1,3-Dichloropropene	2009-09	ug/L	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2010-03	ug/L	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
trans-1,3-Dichloropropene	2011-03	ug/L	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2011-09	ug/L	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2012-03	ug/L	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2012-09	ug/L	< 5.00	< 5.00	< 5.00								
trans-1,3-Dichloropropene	2013-03	ug/L	< 5	< 5	< 5.00								
trans-1,3-Dichloropropene	2013-09	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2013-11	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2014-03	ug/L	< 5.00	< 5.00	< 5.00		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2014-06	ug/L					< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2014-09	ug/L	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5		
trans-1,3-Dichloropropene	2015-03	ug/L	< 5.00	< 5.00	< 5		< 5.00	< 5.00	< 5.00	< 5.00	< 5.00		
trans-1,3-Dichloropropene	2015-06	ug/L											
trans-1,3-Dichloropropene	2015-09	ug/L	< 5	< 5	< 5								
trans-1,3-Dichloropropene	2015-10	ug/L				< 5	< 5	< 5		< 5	< 5		
trans-1,3-Dichloropropene	2016-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
trans-1,3-Dichloropropene	2016-06	ug/L											
trans-1,3-Dichloropropene	2016-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
trans-1,3-Dichloropropene	2017-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
trans-1,3-Dichloropropene	2017-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5		
trans-1,3-Dichloropropene	2017-11	ug/L										< 5	< 5
trans-1,3-Dichloropropene	2018-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2018-06	ug/L										< 5	< 5
trans-1,3-Dichloropropene	2018-08	ug/L	< 5	< 5	< 5	< 5		< 5		< 5			
trans-1,3-Dichloropropene	2018-09	ug/L									< 5	< 5	< 5
trans-1,3-Dichloropropene	2018-11	ug/L										< 5	< 5
trans-1,3-Dichloropropene	2019-03	ug/L	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	
trans-1,3-Dichloropropene	2019-04	ug/L											< 5
trans-1,3-Dichloropropene	2019-08	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2020-03	ug/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2020-04	ug/L											
trans-1,3-Dichloropropene	2020-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2021-03	ug/L	< 5		< 5	< 5							< 5
trans-1,3-Dichloropropene	2021-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2022-03	ug/L	< 5		< 5	< 5							< 5
trans-1,3-Dichloropropene	2022-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2023-03	ug/L	< 5		< 5	< 5							< 5
trans-1,3-Dichloropropene	2023-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	2024-03	ug/L	< 5		< 5	< 5							< 5
trans-1,3-Dichloropropene	2024-08	ug/L	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5
trans-1,4-Dichloro-2-butene	2008-08	ug/L	< 10	< 10	< 10								
trans-1,4-Dichloro-2-butene	2009-03	ug/L	< 10	< 10	< 10								
trans-1,4-Dichloro-2-butene	2009-07	ug/L	< 10	< 10									
trans-1,4-Dichloro-2-butene	2009-09	ug/L	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2010-03	ug/L	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2010-09	ug/L	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2011-03	ug/L	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2011-09	ug/L	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2012-03	ug/L	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2012-09	ug/L	< 10.0	< 10.0	< 10.0								
trans-1,4-Dichloro-2-butene	2013-03	ug/L	< 10	< 10	< 10.0								
trans-1,4-Dichloro-2-butene	2013-09	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2013-11	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2014-03	ug/L	< 10.0	< 10.0	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2014-06	ug/L					< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2014-09	ug/L	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		
trans-1,4-Dichloro-2-butene	2015-03	ug/L	< 10.0	< 10.0	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
trans-1,4-Dichloro-2-butene	2015-06	ug/L											
trans-1,4-Dichloro-2-butene	2015-09	ug/L	< 10	< 10	< 10								
trans-1,4-Dichloro-2-butene	2015-10	ug/L				< 10	< 10	< 10		< 10	< 10		
trans-1,4-Dichloro-2-butene	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
trans-1,4-Dichloro-2-butene	2016-06	ug/L											
trans-1,4-Dichloro-2-butene	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
trans-1,4-Dichloro-2-butene	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
trans-1,4-Dichloro-2-butene	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
trans-1,4-Dichloro-2-butene	2017-11	ug/L										< 10	< 10
trans-1,4-Dichloro-2-butene	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2018-06	ug/L										< 10	< 10
trans-1,4-Dichloro-2-butene	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10		< 10			
trans-1,4-Dichloro-2-butene	2018-09	ug/L									< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2018-11	ug/L										< 10	< 10
trans-1,4-Dichloro-2-butene	2019-03	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	
trans-1,4-Dichloro-2-butene	2019-04	ug/L											< 10
trans-1,4-Dichloro-2-butene	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2020-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2020-04	ug/L											
trans-1,4-Dichloro-2-butene	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2021-03	ug/L	< 10		< 10	< 10							< 10
trans-1,4-Dichloro-2-butene	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2022-03	ug/L	< 10		< 10	< 10							< 10
trans-1,4-Dichloro-2-butene	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
trans-1,4-Dichloro-2-butene	2023-03	ug/L				< 10								
trans-1,4-Dichloro-2-butene	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
trans-1,4-Dichloro-2-butene	2024-03	ug/L				< 10								
trans-1,4-Dichloro-2-butene	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Trichloroethene	2008-08	ug/L	< 1	< 1	< 1	**1.97**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2009-03	ug/L	< 1	< 1	< 1	**1.73**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2009-07	ug/L	< 1	< 1	< 1	**1.7**		< 1	< 1.00	< 1.00	< 1			
Trichloroethene	2009-09	ug/L	< 1.00	< 1	< 1.00	< 5.00		< 1	< 1	< 1	< 1			
Trichloroethene	2010-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2013-03	ug/L	< 1.00	< 1.00	< 1	**0.704 J**	< 1	< 1	< 1	**0.369 J**	< 1.00	< 1	< 1	< 1
Trichloroethene	2013-09	ug/L	< 1.00	< 1.00	< 1.00	**0.249 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2013-11	ug/L												
Trichloroethene	2014-03	ug/L	< 1.00	**0.383 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Trichloroethene	2014-06	ug/L												
Trichloroethene	2014-09	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2015-03	ug/L	< 1.00	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00	< 1	< 1	< 1.00	< 1.00
Trichloroethene	2015-06	ug/L						< 1	< 1					
Trichloroethene	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Trichloroethene	2015-10	ug/L			< 1	< 1							< 1	< 1
Trichloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2016-06	ug/L					< 1							
Trichloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2017-11	ug/L												
Trichloroethene	2018-03	ug/L	< 1	< 1	< 1	**0.225 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2018-06	ug/L												
Trichloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Trichloroethene	2018-09	ug/L							< 1	< 1				
Trichloroethene	2018-11	ug/L											< 1	
Trichloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.611 J**	< 1
Trichloroethene	2019-04	ug/L												
Trichloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	2020-04	ug/L	< 1		< 1									
Trichloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Trichloroethene	2021-03	ug/L				< 1								
Trichloroethene	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Trichloroethene	2022-03	ug/L				< 1								
Trichloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Trichloroethene	2023-03	ug/L				< 1								
Trichloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Trichloroethene	2024-03	ug/L				< 1								
Trichloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Vanadium	2008-08	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	2009-03	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	2009-07	mg/L	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	2009-09	mg/L	< 0.0500	< 0.05		< 0.0500		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		
Vanadium	2010-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2010-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2011-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2011-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2012-03	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2012-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2013-03	mg/L	< 0.0500	**0.00627 J**	< 0.05	**0.00318 J**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.05	< 0.05	< 0.05
Vanadium	2013-09	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2013-11	mg/L												
Vanadium	2014-03	mg/L	< 0.0500	< 0.100	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.100	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Vanadium	2014-06	mg/L												
Vanadium	2014-09	mg/L	**0.000813 J**	**0.000995 J**	< 0.005	**0.000599 J**	< 0.005	**0.000564 J**	**0.000585 J**	**0.00161 J**	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2015-03	mg/L	**0.000636 J**	**0.00193 J**	< 0.00500	**0.000467 J**	< 0.005	**0.000753 J**	**0.000653 J**	**0.00160 J**	< 0.005	< 0.005	< 0.00500	< 0.00500
Vanadium	2015-06	mg/L						**0.000656 J**	< 0.005					
Vanadium	2015-09	mg/L	**0.000604 J**	**0.00143 J**			< 0.005	**0.000554 J**	< 0.005	**0.00103 J**	< 0.005	< 0.005		
Vanadium	2015-10	mg/L			< 0.005	**0.000846 J**							< 0.005	< 0.005
Vanadium	2016-03	mg/L	**0.000467 J**	**0.00181 J**	< 0.005	**0.000884 J**	< 0.005	**0.000877 J**	< 0.005	**0.00126 J**	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2016-06	mg/L					< 0.005							
Vanadium	2016-08	mg/L	**0.000708 J**	**0.00137 J**	**0.000267 J**	**0.00169 J**	< 0.005	**0.00043 J**	**0.000274 J**	**0.00107 J**	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2017-03	mg/L	< 0.005	**0.0014 J**	< 0.005	**0.00157 J**	< 0.005	< 0.005	< 0.005	**0.00154 J**	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2017-08	mg/L	< 0.005	**0.00104 J**	< 0.005	**0.000881 J**	< 0.005	< 0.005	< 0.005	**0.00122 J**	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2017-11	mg/L												
Vanadium	2018-03	mg/L	< 0.005	**0.00192 J**	< 0.005	< 0.005	< 0.005	**0.00108 J**	< 0.005	**0.00146 J**	< 0.005	< 0.005	**0.000971 J**	< 0.005
Vanadium	2018-06	mg/L												
Vanadium	2018-08	mg/L	**0.000534 J**	**0.00153 J**	< 0.005	**0.000974 J**	< 0.005	**0.000854 J**			< 0.005	< 0.005	**0.000558 J**	< 0.005
Vanadium	2018-09	mg/L							< 0.005	**0.00111 J**				
Vanadium	2018-11	mg/L											< 0.005	
Vanadium	2019-03	mg/L	< 0.005	**0.00136 J**	< 0.005	**0.00105 J**	< 0.005	**0.00087 J**	< 0.005	**0.00133 J**	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2019-04	mg/L												
Vanadium	2019-08	mg/L	< 0.005	**0.00113 J**	< 0.005	**0.00159 J**	< 0.005	< 0.005	< 0.005	**0.00141 J**	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2020-03	mg/L		**0.00245 J**		**0.00135 J**	< 0.02	< 0.005	< 0.02	**0.00147 J**	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2020-04	mg/L	< 0.005		< 0.005									
Vanadium	2020-08	mg/L	< 0.005	**0.000966 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005
Vanadium	2021-03	mg/L				**0.00129 J**								
Vanadium	2021-08	mg/L	< 0.005	**0.00183 J**	< 0.005	**0.00137 J**	< 0.005	< 0.005	< 0.005	**0.0015 J**	< 0.005			< 0.005

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
trans-1,4-Dichloro-2-butene	2023-03	ug/L	< 10		< 10	< 10							< 10
trans-1,4-Dichloro-2-butene	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
trans-1,4-Dichloro-2-butene	2024-03	ug/L	< 10		< 10	< 10							< 10
trans-1,4-Dichloro-2-butene	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Trichloroethene	2008-08	ug/L	< 1	< 1	< 1								
Trichloroethene	2009-03	ug/L	< 1	< 1	< 1								
Trichloroethene	2009-07	ug/L	< 1	< 1									
Trichloroethene	2009-09	ug/L	< 1.00	< 1.00	< 1.00								
Trichloroethene	2010-03	ug/L	< 1.00	< 1.00	< 1.00								
Trichloroethene	2010-09	ug/L	< 1.00	< 1.00	< 1.00								
Trichloroethene	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Trichloroethene	2011-09	ug/L	< 1.00	< 1.00	< 1.00								
Trichloroethene	2012-03	ug/L	< 1.00	< 1.00	< 1.00								
Trichloroethene	2012-09	ug/L	< 1.00	< 1.00	< 1.00								
Trichloroethene	2013-03	ug/L	< 1	< 1	< 1.00								
Trichloroethene	2013-09	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Trichloroethene	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Trichloroethene	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Trichloroethene	2014-06	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Trichloroethene	2014-09	ug/L	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1		
Trichloroethene	2015-03	ug/L	< 1.00	< 1.00	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Trichloroethene	2015-06	ug/L											
Trichloroethene	2015-09	ug/L	< 1	< 1	< 1								
Trichloroethene	2015-10	ug/L				< 1	< 1	< 1		< 1	< 1		
Trichloroethene	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Trichloroethene	2016-06	ug/L											
Trichloroethene	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Trichloroethene	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Trichloroethene	2017-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Trichloroethene	2017-11	ug/L										< 1	< 1
Trichloroethene	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Trichloroethene	2018-06	ug/L										< 1	< 1
Trichloroethene	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
Trichloroethene	2018-09	ug/L									< 1	< 1	< 1
Trichloroethene	2018-11	ug/L										< 1	< 1
Trichloroethene	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Trichloroethene	2019-04	ug/L											< 1
Trichloroethene	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Trichloroethene	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
Trichloroethene	2020-04	ug/L											
Trichloroethene	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Trichloroethene	2021-03	ug/L	< 1		< 1	< 1							< 1
Trichloroethene	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Trichloroethene	2022-03	ug/L	< 1		< 1	< 1							< 1
Trichloroethene	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Trichloroethene	2023-03	ug/L	< 1		< 1	< 1							< 1
Trichloroethene	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Trichloroethene	2024-03	ug/L	< 1		< 1	< 1							< 1
Trichloroethene	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Vanadium	2008-08	mg/L	< 0.05	< 0.05	< 0.05								
Vanadium	2009-03	mg/L	< 0.05	< 0.05	< 0.05								
Vanadium	2009-07	mg/L	< 0.05	< 0.05	< 0.05								
Vanadium	2009-09	mg/L	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2010-03	mg/L	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2010-09	mg/L	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2011-03	mg/L	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2011-09	mg/L	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2012-03	mg/L	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2012-09	mg/L	< 0.0500	< 0.0500	< 0.0500								
Vanadium	2013-03	mg/L	< 0.05	< 0.05	< 0.0500								
Vanadium	2013-09	mg/L	< 0.0500	< 0.0500	< 0.0500	~~0.00473 J~~	**0.00468 J**	< 0.0500	**0.00301 J**	**0.00284 J**	< 0.0500		
Vanadium	2013-11	mg/L				~~0.00558 J~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500		
Vanadium	2014-03	mg/L	< 0.0500	< 0.0500	< 0.0500	~~0.00343 J~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500		
Vanadium	2014-06	mg/L				~~< 0.0500~~	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500		
Vanadium	2014-09	mg/L	< 0.005	**0.000544 J**	**0.000489 J**	~~0.00284 J~~	**0.000976 J**	**0.000514 J**	**0.00047 J**	**0.000954 J**	**0.000518 J**		
Vanadium	2015-03	mg/L	< 0.00500	< 0.00500	< 0.005	~~0.00237 J~~	**0.00293 J**	**0.00104 J**	< 0.00500	**0.000987 J**	< 0.00500		
Vanadium	2015-06	mg/L											
Vanadium	2015-09	mg/L	**0.000473 J**	< 0.005	< 0.005								
Vanadium	2015-10	mg/L				< 0.005	**0.000859 J**	**0.000462 J**		**0.000961 J**	< 0.005		
Vanadium	2016-03	mg/L	**0.000313 J**	**0.000293 J**	< 0.005	< 0.005	**0.000487 J**	**0.000421 J**		**0.000773 J**	< 0.005		
Vanadium	2016-06	mg/L											
Vanadium	2016-08	mg/L	< 0.005	**0.000522 J**	< 0.005	< 0.005	**0.000556 J**	**0.000528 J**		**0.00068 J**	< 0.005		
Vanadium	2017-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		**0.000959 J**	< 0.005		
Vanadium	2017-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005		
Vanadium	2017-11	mg/L										< 0.005	< 0.005
Vanadium	2018-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.000955 J**		**0.00102 J**	< 0.005	< 0.005	< 0.005
Vanadium	2018-06	mg/L										< 0.005	< 0.005
Vanadium	2018-08	mg/L	< 0.005	**0.000818 J**	< 0.005	< 0.005		**0.000646 J**		**0.000728 J**			
Vanadium	2018-09	mg/L									< 0.005	< 0.005	< 0.005
Vanadium	2018-11	mg/L										< 0.005	< 0.005
Vanadium	2019-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Vanadium	2019-04	mg/L											< 0.005
Vanadium	2019-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2020-03	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00129 J**	**0.000829 J**		**0.00102 J**	< 0.005	< 0.005	< 0.005
Vanadium	2020-04	mg/L											
Vanadium	2020-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.00109 J**			< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2021-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Vanadium	2021-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			**0.00176 J**	< 0.005	< 0.005	< 0.005

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Vanadium	2022-03	mg/L				< 0.005								
Vanadium	2022-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00122 J**	< 0.005			< 0.005
Vanadium	2023-03	mg/L				< 0.005								
Vanadium	2023-08	mg/L	< 0.005	**0.00183 J**	< 0.005	< 0.005	< 0.005	**0.00116 J**	< 0.005	**0.00164 J**	< 0.005			< 0.005
Vanadium	2024-03	mg/L				< 0.005								
Vanadium	2024-08	mg/L	< 0.005	**0.0012 J**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00114 J**	< 0.005			< 0.005
Vinyl Acetate	2008-08	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	2009-03	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	2009-07	ug/L	< 2	< 2	< 2	< 2		< 2	< 2.00	< 2.00	< 2			
Vinyl Acetate	2009-09	ug/L	< 2.00	< 2	< 2.00	< 10.0		< 2	< 2	< 2	< 2			
Vinyl Acetate	2010-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2010-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2011-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2011-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2012-03	ug/L	< 2.00	< 2.00	< 10.0	< 10.0	< 2.00	< 2.00	< 10.0	< 10.0	< 2.00	< 2.00	< 10.0	< 10.0
Vinyl Acetate	2012-09	ug/L	< 4.00	< 4.00	< 10.0	< 10.0	< 10.0	< 4.00	< 10.0	< 10.0	< 4.00	< 4.00	< 4.00	< 4.00
Vinyl Acetate	2013-03	ug/L	< 2.00	< 2.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2.00	< 2	< 2	< 2
Vinyl Acetate	2013-09	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2013-11	ug/L												
Vinyl Acetate	2014-03	ug/L	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Vinyl Acetate	2014-06	ug/L												
Vinyl Acetate	2014-09	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	2015-03	ug/L	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0	< 10	< 10	< 10.0	< 10.0
Vinyl Acetate	2015-06	ug/L						< 10	< 10					
Vinyl Acetate	2015-09	ug/L	< 10	< 10			< 10	< 10	< 10	< 10	< 10	< 10		
Vinyl Acetate	2015-10	ug/L			< 10	< 10							< 10	< 10
Vinyl Acetate	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2016-06	ug/L					< 10							
Vinyl Acetate	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2017-11	ug/L												
Vinyl Acetate	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2018-06	ug/L												
Vinyl Acetate	2018-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Vinyl Acetate	2018-09	ug/L							< 10	< 10				
Vinyl Acetate	2018-11	ug/L											< 10	
Vinyl Acetate	2019-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2019-04	ug/L												
Vinyl Acetate	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2020-03	ug/L		< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl Acetate	2020-04	ug/L	< 10		< 10									
Vinyl Acetate	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Vinyl Acetate	2021-03	ug/L				< 10								
Vinyl Acetate	2021-08	ug/L	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Vinyl Acetate	2022-03	ug/L				< 10								
Vinyl Acetate	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Vinyl Acetate	2023-03	ug/L				< 10								
Vinyl Acetate	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Vinyl Acetate	2024-03	ug/L				< 10								
Vinyl Acetate	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10
Vinyl Chloride	2008-08	ug/L	< 1	< 1	< 1	**4.36**	< 1	< 1	< 1	< 1	**1.58**	< 1	< 1	< 1
Vinyl Chloride	2009-03	ug/L	< 1	**0.84 J**	< 1	**4.92**	< 1	**0.39 J**	< 0.26	**0.6 J**	**0.67 J**	< 0.26	< 0.26	< 0.26
Vinyl Chloride	2009-07	ug/L	< 0.26	**0.76 J**	< 0.26	< 0.26		< 0.26	< 0.260	**0.600 J**	< 0.26			
Vinyl Chloride	2009-09	ug/L	< 1.00	**0.75 J**	< 1.00	< 5.00		< 0.24	< 0.24	**0.84 J**	**0.53 J**			
Vinyl Chloride	2010-03	ug/L	**0.330 J**	**0.650 J**	< 0.240	**3.26**	< 0.240	**0.240 J**	< 0.240	**0.560 J**	**0.660 J**	< 0.240	< 0.240	< 0.240
Vinyl Chloride	2010-09	ug/L	< 0.240	**0.580 J**	< 0.240	**2.02**	< 1.00	< 1.00	< 1.00	**0.790 J**	< 1.00	< 1.00	< 1.00	< 1.00
Vinyl Chloride	2011-03	ug/L	< 1.00	< 1.00	< 1.00	**2.49**	< 0.100	**0.230 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Vinyl Chloride	2011-09	ug/L	< 0.100	**0.740 J**	< 0.100	**1.23**	< 0.100	**0.120 J**	< 0.100	**0.270 J**	**0.200 J**	< 0.100	< 0.100	< 0.100
Vinyl Chloride	2012-03	ug/L	< 0.100	**0.620**	< 0.100	**1.47**	< 0.100	< 0.100	< 0.100	**0.360**	< 0.100	< 0.100	< 0.100	< 0.100
Vinyl Chloride	2012-09	ug/L	< 0.100	< 1.00	< 0.100	**1.86**	< 0.100	**0.240**	**0.130**	**0.250**	< 0.100	< 0.100	< 0.100	< 0.100
Vinyl Chloride	2013-03	ug/L	< 1.00	**0.216 J**	< 1	**1.54**	< 1	< 1	**0.119 J**	**0.481 J**	< 1.00	< 1	< 1	< 1
Vinyl Chloride	2013-09	ug/L	< 1.00	**0.562 J**	< 1.00	**1.28**	< 1.00	**0.214 J**	**0.139 J**	**0.448 J**	**0.333 J**	< 1.00	< 1.00	< 1.00
Vinyl Chloride	2013-11	ug/L												
Vinyl Chloride	2014-03	ug/L	< 1.00	**0.544 J**	< 1.00	< 1.00	< 1.00	**0.152 J**	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Vinyl Chloride	2014-06	ug/L												
Vinyl Chloride	2014-09	ug/L	< 1	< 1	< 1	**0.831 J**	< 1	**0.195 J**	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2015-03	ug/L	< 1.00	< 1	< 1.00	**0.604 J**	< 1	< 1	< 1.00	< 1.00	**0.352 J**	< 1	< 1.00	< 1.00
Vinyl Chloride	2015-06	ug/L						< 1	< 1					
Vinyl Chloride	2015-09	ug/L	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1		
Vinyl Chloride	2015-10	ug/L			< 1	**0.699 J**							< 1	< 1
Vinyl Chloride	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.443 J**	**1.04**	< 1	< 1	< 1
Vinyl Chloride	2016-06	ug/L					< 1							
Vinyl Chloride	2016-08	ug/L	< 1	< 1	< 1	**0.691 J**	< 1	< 1	< 1	< 1	**0.746 J**	< 1	< 1	< 1
Vinyl Chloride	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.783 J**	< 1	< 1	< 1	< 1
Vinyl Chloride	2017-08	ug/L	< 1	< 1	< 1	**0.401 J**	< 1	< 1	< 1	**0.262 J**	**0.396 J**	< 1	< 1	< 1
Vinyl Chloride	2017-11	ug/L												
Vinyl Chloride	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	**0.12 J**	< 1	**0.249 J**	**0.759 J**	< 1	< 1	< 1
Vinyl Chloride	2018-06	ug/L												
Vinyl Chloride	2018-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1
Vinyl Chloride	2018-09	ug/L							< 1	< 1				
Vinyl Chloride	2018-11	ug/L											< 1	
Vinyl Chloride	2019-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2019-04	ug/L												
Vinyl Chloride	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.451 J**	< 1	< 1	< 1	< 1
Vinyl Chloride	2020-03	ug/L		< 1		< 1	< 1	< 1	< 1	**0.494 J**	**0.779 J**	< 1	< 1	< 1
Vinyl Chloride	2020-04	ug/L	< 1		< 1									
Vinyl Chloride	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.411 J**	**0.44 J**			< 1

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Vanadium	2022-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Vanadium	2022-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	2023-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Vanadium	2023-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			**0.00122 J**	< 0.005	< 0.005	< 0.005
Vanadium	2024-03	mg/L	< 0.005		< 0.005	< 0.005							< 0.005
Vanadium	2024-08	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005
Vinyl Acetate	2008-08	ug/L	< 2	< 2	< 2								
Vinyl Acetate	2009-03	ug/L	< 2	< 2	< 2								
Vinyl Acetate	2009-07	ug/L	< 2	< 2									
Vinyl Acetate	2009-09	ug/L	< 2.00	< 2.00	< 2.00								
Vinyl Acetate	2010-03	ug/L	< 2.00	< 2.00	< 2.00								
Vinyl Acetate	2010-09	ug/L	< 2.00	< 2.00	< 2.00								
Vinyl Acetate	2011-03	ug/L	< 2.00	< 2.00	< 2.00								
Vinyl Acetate	2011-09	ug/L	< 2.00	< 2.00	< 2.00								
Vinyl Acetate	2012-03	ug/L	< 2.00	< 10.0	< 10.0								
Vinyl Acetate	2012-09	ug/L	< 4.00	< 4.00	< 10.0								
Vinyl Acetate	2013-03	ug/L	< 2	< 2	< 2.00								
Vinyl Acetate	2013-09	ug/L	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Vinyl Acetate	2013-11	ug/L					< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Vinyl Acetate	2014-03	ug/L	< 2.00	< 2.00	< 2.00		< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Vinyl Acetate	2014-06	ug/L					< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Vinyl Acetate	2014-09	ug/L	< 2	< 2	< 2		< 2	< 2	< 2	< 2	< 2		
Vinyl Acetate	2015-03	ug/L	< 10.0	< 10.0	< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Vinyl Acetate	2015-06	ug/L											
Vinyl Acetate	2015-09	ug/L	< 10	< 10	< 10								
Vinyl Acetate	2015-10	ug/L				< 10	< 10	< 10		< 10	< 10		
Vinyl Acetate	2016-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Vinyl Acetate	2016-06	ug/L											
Vinyl Acetate	2016-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Vinyl Acetate	2017-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Vinyl Acetate	2017-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10		
Vinyl Acetate	2017-11	ug/L										< 10	< 10
Vinyl Acetate	2018-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Vinyl Acetate	2018-06	ug/L										< 10	< 10
Vinyl Acetate	2018-08	ug/L	< 10	< 10	< 10	< 10		< 10		< 10			
Vinyl Acetate	2018-09	ug/L									< 10	< 10	< 10
Vinyl Acetate	2018-11	ug/L										< 10	< 10
Vinyl Acetate	2019-03	ug/L	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	
Vinyl Acetate	2019-04	ug/L											< 10
Vinyl Acetate	2019-08	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Vinyl Acetate	2020-03	ug/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Vinyl Acetate	2020-04	ug/L											
Vinyl Acetate	2020-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Vinyl Acetate	2021-03	ug/L	< 10		< 10	< 10							< 10
Vinyl Acetate	2021-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Vinyl Acetate	2022-03	ug/L	< 10		< 10	< 10							< 10
Vinyl Acetate	2022-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Vinyl Acetate	2023-03	ug/L	< 10		< 10	< 10							< 10
Vinyl Acetate	2023-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Vinyl Acetate	2024-03	ug/L	< 10		< 10	< 10							< 10
Vinyl Acetate	2024-08	ug/L	< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10
Vinyl Chloride	2008-08	ug/L	< 1	**3.28**	< 1								
Vinyl Chloride	2009-03	ug/L	< 1	**2.91**	< 0.26								
Vinyl Chloride	2009-07	ug/L	< 0.26	< 0.26									
Vinyl Chloride	2009-09	ug/L	< 1.00	**1.79**	< 0.240								
Vinyl Chloride	2010-03	ug/L	< 0.240	**1.18**	< 0.240								
Vinyl Chloride	2010-09	ug/L	< 0.240	**0.910 J**	< 0.240								
Vinyl Chloride	2011-03	ug/L	< 1.00	< 1.00	< 1.00								
Vinyl Chloride	2011-09	ug/L	< 0.100	**0.640 J**	< 0.100								
Vinyl Chloride	2012-03	ug/L	< 0.100	**0.690**	< 0.100								
Vinyl Chloride	2012-09	ug/L	< 0.100	**0.520 J**	< 0.100								
Vinyl Chloride	2013-03	ug/L	< 1	**0.372 J**	< 1.00								
Vinyl Chloride	2013-09	ug/L	< 1.00	**0.343 J**	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Vinyl Chloride	2013-11	ug/L					< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Vinyl Chloride	2014-03	ug/L	< 1.00	< 1.00	< 1.00		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Vinyl Chloride	2014-06	ug/L					< 1.00	< 1.00	< 1.00	**0.164 J**	< 1.00		
Vinyl Chloride	2014-09	ug/L	< 1	**0.22 J**	< 1		< 1	< 1	< 1	< 1	< 1		
Vinyl Chloride	2015-03	ug/L	< 1.00	**0.163 J**	< 1		< 1.00	< 1.00	< 1.00	< 1.00	< 1.00		
Vinyl Chloride	2015-06	ug/L											
Vinyl Chloride	2015-09	ug/L	< 1	< 1	< 1								
Vinyl Chloride	2015-10	ug/L				< 1	< 1	< 1		**0.407 J**	< 1		
Vinyl Chloride	2016-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Vinyl Chloride	2016-06	ug/L											
Vinyl Chloride	2016-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Vinyl Chloride	2017-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		
Vinyl Chloride	2017-08	ug/L	< 1	**0.157 J**	< 1	< 1	< 1	< 1		**0.195 J**	< 1		
Vinyl Chloride	2017-11	ug/L										< 1	**0.557 J**
Vinyl Chloride	2018-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**0.139 J**	< 1	< 1	**0.709 J**
Vinyl Chloride	2018-06	ug/L										< 1	< 1
Vinyl Chloride	2018-08	ug/L	< 1	< 1	< 1	< 1		< 1		< 1			
Vinyl Chloride	2018-09	ug/L									< 1	< 1	< 1
Vinyl Chloride	2018-11	ug/L										< 1	< 1
Vinyl Chloride	2019-03	ug/L	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	
Vinyl Chloride	2019-04	ug/L											< 1
Vinyl Chloride	2019-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**0.299 J**	< 1	< 1	**0.497 J**
Vinyl Chloride	2020-03	ug/L	< 1	< 1	< 1	< 1	< 1	< 1		**0.402 J**	< 1	< 1	**0.39 J**
Vinyl Chloride	2020-04	ug/L											
Vinyl Chloride	2020-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	**0.353 J**

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Vinyl Chloride	2021-03	ug/L				< 1								
Vinyl Chloride	2021-08	ug/L	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	**0.583 J**			< 1
Vinyl Chloride	2022-03	ug/L				< 1								
Vinyl Chloride	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.368 J**			< 1
Vinyl Chloride	2023-03	ug/L				**0.19 J**								
Vinyl Chloride	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1
Vinyl Chloride	2024-03	ug/L				< 1								
Vinyl Chloride	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.343 J**	**0.68 J**			< 1
Xylenes, Total	2008-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2009-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2009-07	ug/L	< 3	< 3	< 3	< 3		< 3	< 3.00	< 3.00	< 3			
Xylenes, Total	2009-09	ug/L	< 3.00	< 3	< 3.00	< 15.0		< 3	< 3	< 3	< 3			
Xylenes, Total	2010-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2010-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2011-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2011-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2012-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2012-09	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2013-03	ug/L	< 3.00	< 3.00	< 3	< 3	< 3	< 3	< 3	< 3	< 3.00	< 3	< 3	< 3
Xylenes, Total	2013-09	ug/L	< 3.00	< 3.00	< 3.00	**0.189 J**	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2013-11	ug/L												
Xylenes, Total	2014-03	ug/L	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
Xylenes, Total	2014-06	ug/L												
Xylenes, Total	2014-09	ug/L	< 3	< 3	< 3	< 3 J	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2015-03	ug/L	< 3.00	< 3	**0.204 J**	**0.339 J**	< 3	< 3	< 3.00	< 3.00	< 3	< 3	< 3.00	< 3.00
Xylenes, Total	2015-06	ug/L						< 3	< 3					
Xylenes, Total	2015-09	ug/L	< 3	< 3			< 3	< 3	< 3	< 3	< 3	< 3		
Xylenes, Total	2015-10	ug/L			< 3	< 3							< 3	< 3
Xylenes, Total	2016-03	ug/L	< 3	< 3	< 3	**0.139 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2016-06	ug/L					**0.231 J**							
Xylenes, Total	2016-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	**0.169 J**	< 3	< 3	< 3
Xylenes, Total	2017-03	ug/L	< 3	**1.82 J**	< 3	**0.18 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2017-08	ug/L	< 3	**0.801 J**	< 3	**0.282 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2017-11	ug/L												
Xylenes, Total	2018-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2018-06	ug/L												
Xylenes, Total	2018-08	ug/L	< 3	< 3	< 3	**1.02 J**	< 3	< 3			< 3	**0.463 J**	< 3	< 3
Xylenes, Total	2018-09	ug/L							< 3	< 3				
Xylenes, Total	2018-11	ug/L											< 3	
Xylenes, Total	2019-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2019-04	ug/L												
Xylenes, Total	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2020-03	ug/L		< 3		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Xylenes, Total	2020-04	ug/L	< 3		< 3									
Xylenes, Total	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Xylenes, Total	2021-03	ug/L				< 3								
Xylenes, Total	2021-08	ug/L	< 3	< 30	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Xylenes, Total	2022-03	ug/L				< 3								
Xylenes, Total	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Xylenes, Total	2023-03	ug/L				< 3								
Xylenes, Total	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Xylenes, Total	2024-03	ug/L				< 3								
Xylenes, Total	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3			< 3
Zinc	2008-08	mg/L	< 0.05	< 0.05	< 0.05	**0.096**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Zinc	2009-03	mg/L	< 0.05	< 0.05	< 0.05	**0.321**	**0.121**	**0.479**	**0.332**	**0.257**	**0.081**	< 0.05	< 0.05	< 0.05
Zinc	2009-07	mg/L	< 0.05	< 0.05	< 0.05	**0.077**		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Zinc	2009-09	mg/L	**0.0780**	< 0.1		**0.169**		**0.111**	**0.0834**	< 0.06	**0.0311**	< 0.02		
Zinc	2010-03	mg/L	**0.104**	< 0.100	**0.0694**	**0.150**	**0.101**	**0.120**	**0.102**	< 0.100	**0.0354**	**0.0220**	< 0.0200	**0.0321**
Zinc	2010-09	mg/L	**0.0530**	< 0.0200	**0.0476**	**0.0408**	**0.0698**	**0.0697**	**0.0662**	< 0.0600	**0.0213**	< 0.0200	< 0.0200	< 0.0200
Zinc	2011-03	mg/L	< 0.0200	< 0.100	**0.0557**	**0.0329**	**0.0803**	**0.0819**	< 0.0200	< 0.100	< 0.0200	< 0.0200	< 0.0200	**0.0293**
Zinc	2011-09	mg/L	< 0.0200	< 0.0600	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0600	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Zinc	2012-03	mg/L	< 0.0200	< 0.0600	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0600	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Zinc	2012-09	mg/L	< 0.0200	< 0.0600	< 0.0200	**0.0669**	< 0.0200	< 0.0200	< 0.0200	< 0.0600	< 0.0200	**0.0205**	< 0.0200	< 0.0200
Zinc	2013-03	mg/L	**0.0489**	**0.0238 J**	**0.0292**	**0.0443**	**0.0374**	**0.0424**	**0.0604**	**0.038**	< 0.0200 J	< 0.02 J	< 0.02 J	**0.0275**
Zinc	2013-09	mg/L	**0.112**	**0.0540**	**0.101**	**0.0254**	< 0.0200	**7.88**	**0.00771 J**	**0.0228**	**0.0187 J**	**0.0128 J**	**0.0112 J**	**0.0299**
Zinc	2013-11	mg/L												
Zinc	2014-03	mg/L	< 0.0200	< 0.0400 J	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0400	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Zinc	2014-06	mg/L												
Zinc	2014-09	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2015-03	mg/L	< 0.0100	**0.0144**	< 0.0100	< 0.0100	< 0.01	< 0.01	< 0.0100	**0.00776 J**	< 0.01	< 0.01	< 0.0100	< 0.0100
Zinc	2015-06	mg/L						< 0.01	< 0.01					
Zinc	2015-09	mg/L	< 0.01	**0.0112**			< 0.01	**0.00835 J**	< 0.01	< 0.01	< 0.01	< 0.01		
Zinc	2015-10	mg/L			< 0.01	< 0.01							**0.0154**	< 0.01
Zinc	2016-03	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0125**	< 0.01	< 0.01
Zinc	2016-06	mg/L					< 0.01							
Zinc	2016-08	mg/L	**0.0151**	**0.0155**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2017-03	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0219**
Zinc	2017-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	2017-11	mg/L												
Zinc	2018-03	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	2018-06	mg/L												
Zinc	2018-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02
Zinc	2018-09	mg/L							< 0.02	**0.0113 J**				
Zinc	2018-11	mg/L											< 0.02	
Zinc	2019-03	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0101 J**	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	2019-04	mg/L												
Zinc	2019-08	mg/L	< 0.02	**0.0101 J**	**0.0107 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	2020-03	mg/L		**0.0117 J**		< 0.02	< 0.08	< 0.02	< 0.08	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Vinyl Chloride	2021-03	ug/L	< 1		< 1	< 1							**0.382 J**
Vinyl Chloride	2021-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	**0.384 J**
Vinyl Chloride	2022-03	ug/L	< 1		< 1	< 1							**0.437 J**
Vinyl Chloride	2022-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	**0.314 J**
Vinyl Chloride	2023-03	ug/L	< 1		< 1	< 1							**0.267 J**
Vinyl Chloride	2023-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	**0.687 J**
Vinyl Chloride	2024-03	ug/L	< 1		< 1	< 1							< 1
Vinyl Chloride	2024-08	ug/L	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	**0.224 J**
Xylenes, Total	2008-08	ug/L	< 3	< 3	< 3								
Xylenes, Total	2009-03	ug/L	< 3	< 3	< 3								
Xylenes, Total	2009-07	ug/L	< 3	< 3									
Xylenes, Total	2009-09	ug/L	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2010-03	ug/L	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2010-09	ug/L	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2011-03	ug/L	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2011-09	ug/L	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2012-03	ug/L	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2012-09	ug/L	< 3.00	< 3.00	< 3.00								
Xylenes, Total	2013-03	ug/L	< 3	< 3	< 3.00								
Xylenes, Total	2013-09	ug/L	< 3.00	< 3.00	< 3.00		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2013-11	ug/L					< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2014-03	ug/L	< 3.00	< 3.00	< 3.00		< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2014-06	ug/L					< 3.00	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2014-09	ug/L	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3		
Xylenes, Total	2015-03	ug/L	< 3.00	< 3.00	< 3		**0.170 J**	< 3.00	< 3.00	< 3.00	< 3.00		
Xylenes, Total	2015-06	ug/L											
Xylenes, Total	2015-09	ug/L	< 3	< 3	< 3								
Xylenes, Total	2015-10	ug/L				< 3	< 3	< 3		< 3	< 3		
Xylenes, Total	2016-03	ug/L	< 3	< 3	**0.155 J**	< 3	< 3	< 3		< 3	< 3		
Xylenes, Total	2016-06	ug/L											
Xylenes, Total	2016-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3		
Xylenes, Total	2017-03	ug/L	< 3	< 3	**1.18 J**	< 3	< 3	< 3		< 3	**0.245 J**		
Xylenes, Total	2017-08	ug/L	< 3	**0.313 J**	**0.639 J**	< 3	< 3	< 3		< 3	**0.146 J**		
Xylenes, Total	2017-11	ug/L										**0.133 J**	< 3
Xylenes, Total	2018-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3
Xylenes, Total	2018-06	ug/L										< 3	< 3
Xylenes, Total	2018-08	ug/L	< 3	< 3	< 3	< 3		< 3		< 3			
Xylenes, Total	2018-09	ug/L									< 3	< 3	< 3
Xylenes, Total	2018-11	ug/L										< 3	< 3
Xylenes, Total	2019-03	ug/L	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3	< 3	
Xylenes, Total	2019-04	ug/L											< 3
Xylenes, Total	2019-08	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3
Xylenes, Total	2020-03	ug/L	< 3	< 3	< 3	< 3	< 3	< 3		< 3	< 3	< 3	< 3
Xylenes, Total	2020-04	ug/L											
Xylenes, Total	2020-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Xylenes, Total	2021-03	ug/L	< 3		< 3	< 3							< 3
Xylenes, Total	2021-08	ug/L	< 3	**0.414 J**	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Xylenes, Total	2022-03	ug/L	< 3		< 3	< 3							< 3
Xylenes, Total	2022-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Xylenes, Total	2023-03	ug/L	< 3		< 3	< 3							< 3
Xylenes, Total	2023-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Xylenes, Total	2024-03	ug/L	< 3		< 3	< 3							< 3
Xylenes, Total	2024-08	ug/L	< 3	< 3	< 3	< 3	< 3			< 3	< 3	< 3	< 3
Zinc	2008-08	mg/L	< 0.05	< 0.05	< 0.05								
Zinc	2009-03	mg/L	< 0.05	< 0.05	< 0.05								
Zinc	2009-07	mg/L	< 0.05	< 0.05	< 0.05								
Zinc	2009-09	mg/L	< 0.0200	**0.0380**	**0.0238**								
Zinc	2010-03	mg/L	< 0.0200	**0.0342**	**0.0217**								
Zinc	2010-09	mg/L	< 0.0200	< 0.0200	**0.0216**								
Zinc	2011-03	mg/L	**0.0443**	< 0.0200	< 0.0200								
Zinc	2011-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Zinc	2012-03	mg/L	< 0.0200	< 0.0200	< 0.0200								
Zinc	2012-09	mg/L	< 0.0200	< 0.0200	< 0.0200								
Zinc	2013-03	mg/L	< 0.0219	**0.0317**	< 0.0200								
Zinc	2013-09	mg/L	**0.0562**	**0.0882**	**0.0366**	~~< 0.0200~~	< 0.0200	**0.0216**	< 0.0200	< 0.0200	**0.0424**		
Zinc	2013-11	mg/L				**~~0.270~~**	**0.109**	**0.117**	**0.110**	**0.140**	**0.124**		
Zinc	2014-03	mg/L	< 0.0200	< 0.0200 J	**0.00850 J**	~~< 0.0200~~	**0.0143 J**	**0.0131 J**	< 0.0200	< 0.0200	< 0.0200		
Zinc	2014-06	mg/L				~~< 0.0600~~	< 0.0600	< 0.0600	< 0.0600	< 0.120	< 0.0600		
Zinc	2014-09	mg/L	< 0.01	< 0.01	< 0.01	~~< 0.01~~	< 0.01	< 0.01	< 0.01	< 0.01	**0.0156**		
Zinc	2015-03	mg/L	< 0.0100	< 0.0100	< 0.01	~~< 0.0100~~	< 0.0100	< 0.0100	< 0.0100	**0.0133**	**0.0105**		
Zinc	2015-06	mg/L											
Zinc	2015-09	mg/L	< 0.01	< 0.01	< 0.01								
Zinc	2015-10	mg/L				< 0.01	< 0.01	< 0.01		< 0.01	**0.0114**		
Zinc	2016-03	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		**0.00998 J**	**0.00995 J**		
Zinc	2016-06	mg/L											
Zinc	2016-08	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	**0.00977 J**		
Zinc	2017-03	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02		
Zinc	2017-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	**0.0128 J**		
Zinc	2017-11	mg/L										< 0.02	< 0.02
Zinc	2018-03	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02
Zinc	2018-06	mg/L										< 0.02	**0.0135 J**
Zinc	2018-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02		< 0.02			
Zinc	2018-09	mg/L									**0.0116 J**	< 0.02	**0.014 J**
Zinc	2018-11	mg/L										< 0.02	**0.0109 J**
Zinc	2019-03	mg/L	**0.0893**	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Zinc	2019-04	mg/L											**0.0125 J**
Zinc	2019-08	mg/L	**0.015 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	**0.0169 J**	< 0.02	**0.0145 J**
Zinc	2020-03	mg/L	**0.0189 J**	< 0.02	< 0.02	< 0.02	< 0.02	**0.0148 J**		< 0.02	**0.0126 J**	< 0.02	**0.0135 J**

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**

Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	AW-6 (DwnGrad)	CRL-9 (DwnGrad)	MW-11 (DwnGrad)	MW-14 (DwnGrad)	MW-15 (DwnGrad)	MW-18 (DwnGrad)	MW-19 (DwnGrad)	MW-22 (DwnGrad)	MW-25 (DwnGrad)	MW-27 (DwnGrad)	MW-29 (DwnGrad)	MW-31 (DwnGrad)
Zinc	2020-04	mg/L	< 0.02		< 0.02									
Zinc	2020-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02
Zinc	2021-03	mg/L				< 0.02								
Zinc	2021-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02
Zinc	2022-03	mg/L				< 0.02								
Zinc	2022-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	**0.0105 J**	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02
Zinc	2023-03	mg/L				< 0.02								
Zinc	2023-08	mg/L	< 0.02	**0.0245**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.00661 J**	< 0.02			< 0.02
Zinc	2024-03	mg/L				< 0.02								
Zinc	2024-08	mg/L	< 0.02	**0.0139 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02

Table 14

Cedar Rapids Linn County Solid Waste Agency Site 1 **Analytical Data Summary - Deeper Bedrock Appendix II**
Permit No. 57-SDP-03-75C **2024 Annual Water Quality Report**

Constituent	Date	Units	MW-33 (DwnGrad)	MW-36 (DwnGrad)	MW-38 (Bkgrnd)	MW-101B (Bkgrnd)	MW-102B (Delin)	MW-103C (Delin)	MW-104B (Delin)	MW-105B (Delin)	MW-107B (Delin)	MW-108B (Delin)	MW-109B (Delin)
Zinc	2020-04	mg/L											
Zinc	2020-08	mg/L	**0.0138 J**	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	**0.0101 J**	< 0.02	< 0.02
Zinc	2021-03	mg/L	**0.033**		< 0.02	< 0.02							**0.0133 J**
Zinc	2021-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	**0.0188 J**	**0.0362**	**0.0108 J**
Zinc	2022-03	mg/L	**0.0159 J**		< 0.02	< 0.02							**0.0109 J**
Zinc	2022-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	**0.0101 J**	< 0.02	**0.0117 J**
Zinc	2023-03	mg/L	< 0.02		< 0.02	< 0.02							< 0.02
Zinc	2023-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	**0.0102 J**	< 0.02	< 0.02
Zinc	2024-03	mg/L	< 0.02		< 0.02	< 0.02							< 0.02
Zinc	2024-08	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	**0.0101 J**	< 0.02	< 0.02

Figures

NOTES:

1. Aerial imagery was flown in Spring 2023 and provided by Linn County, Iowa.

LEGEND

MW-38	Deeper Bedrock Background Well
MW-27	Deeper Bedrock Monitoring Well
MW-37	Upper Bedrock Background Well
MW-26	Upper Bedrock Monitoring Well
	Parcels

Foth

N

0 250 500 Feet

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

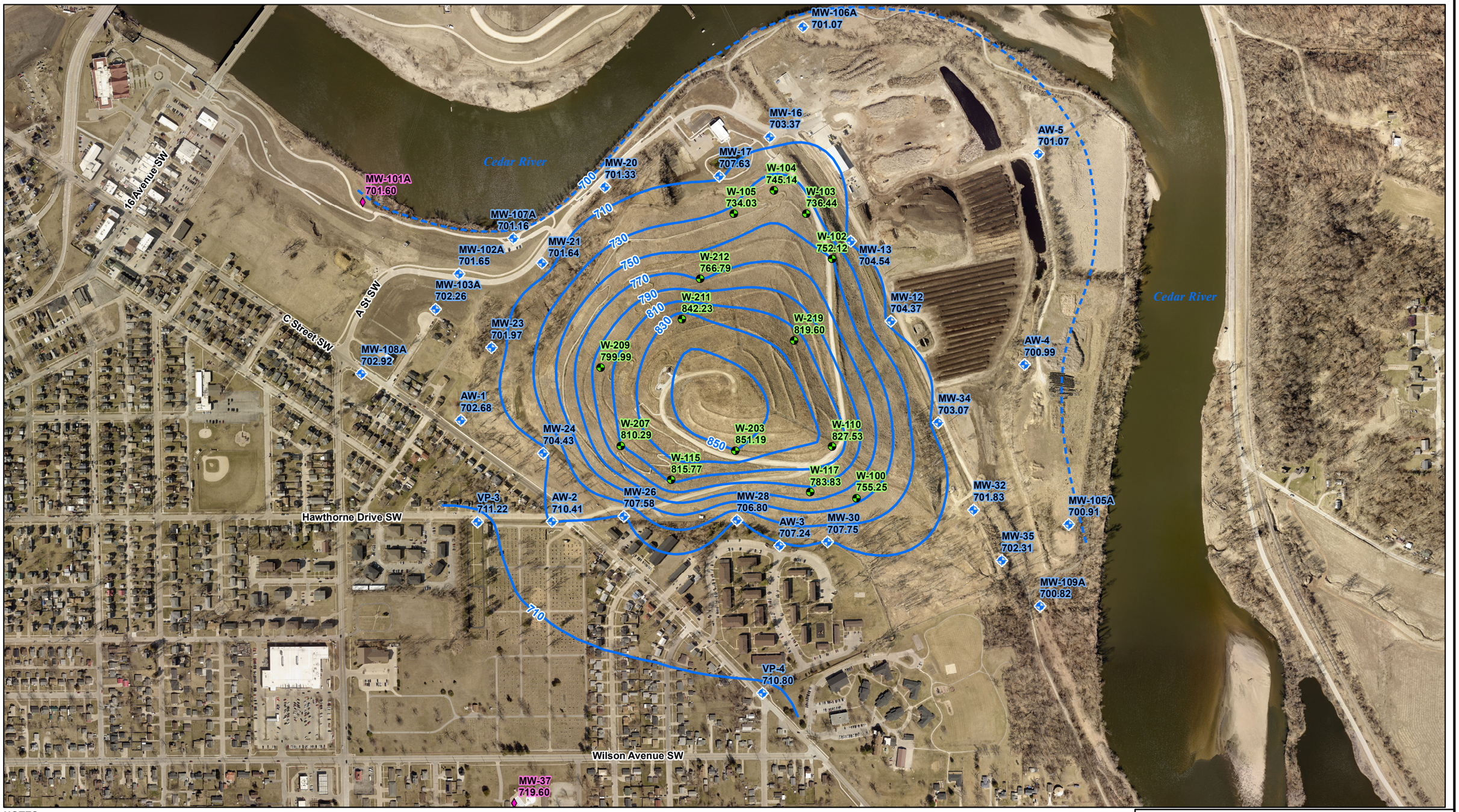
Cedar Rapids Linn County Solid Waste Agency

FIGURE 1

HMSP MONITORING NETWORK

Date: JANUARY 2025	Revision Date:	
Drawn By: DAT	Checked By: GMN	Project: 24C034.00

Path: Q:\Cedar Rapids Linn Co SWA IA\24C034.00\GIS\mxd\2024 AWQR\Figure 1 - HMSP Monitoring Network.mxd Date: 1/8/2025



NOTES:

1. Aerial imagery was flown in Spring 2023 and provided by Linn County, Iowa.

LEGEND

- Leachate Piezometer
- Upper Bedrock Background Well
- Upper Bedrock Monitoring Well
- Water Table Contours (March 2024)
- Inferred Water Table Contours (March 2024)

Foth

N

0 250 500 Feet

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

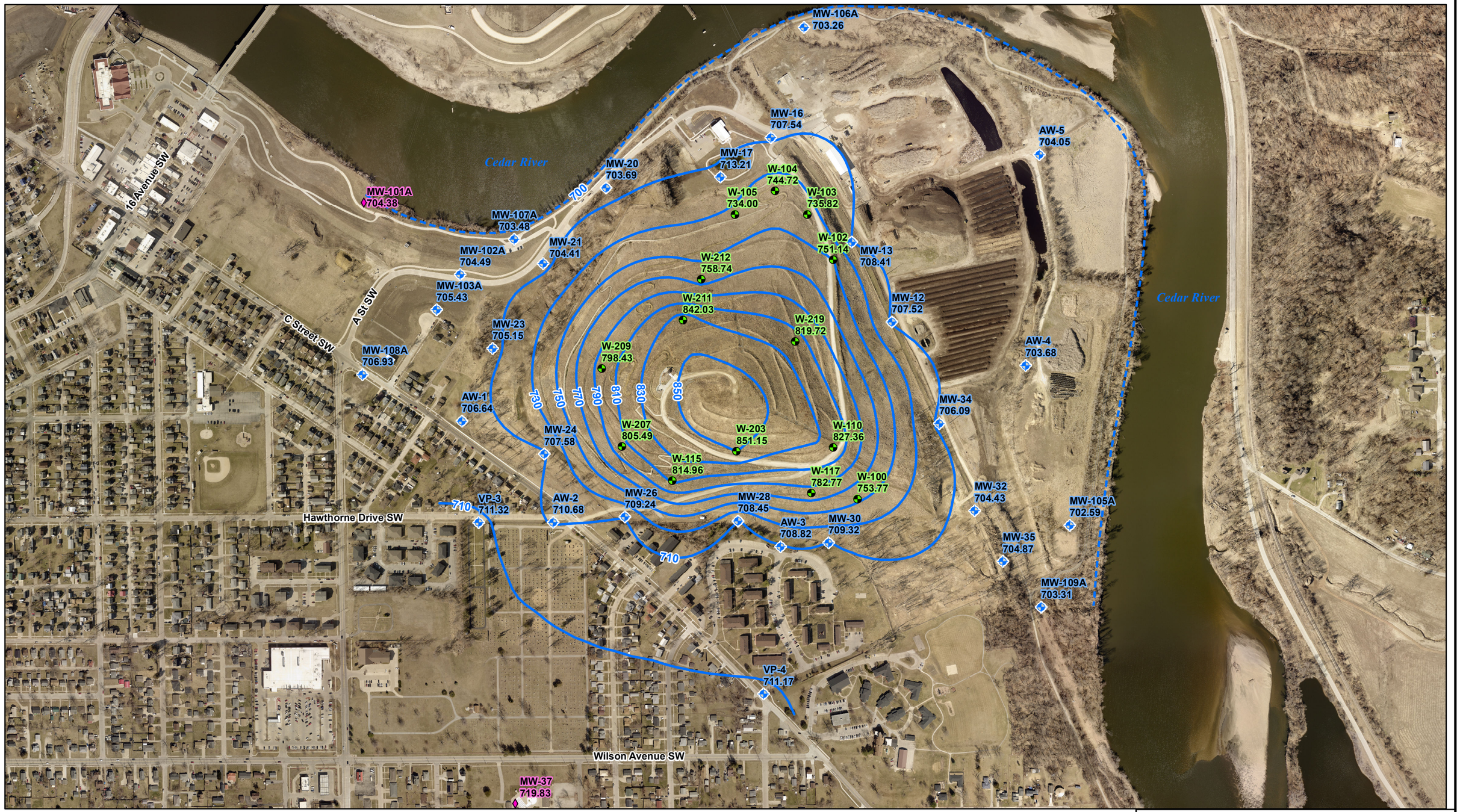
Cedar Rapids Linn County Solid Waste Agency

FIGURE 2

Water Table Contour Map – March 2024

Date: JANUARY 2025	Revision Date:	
Drawn By: DAT	Checked By: GMN	Project: 24C034.00

Path: Q:\Cedar Rapids Linn Co SWA IA\24C034.00\GIS\mxd\2024 AWQR\Figure 2 - Water Table Contour 0324.mxd Date: 1/9/2025



NOTES:

1. Aerial imagery was flown in Spring 2023 and provided by Linn County, Iowa.

LEGEND

- Leachate Piezometer
- Upper Bedrock Background Well
- Upper Bedrock Monitoring Well
- Water Table Contours (August 2024)
- Inferred Water Table Contours (August 2024)

Foth

N

0 250 500 Feet

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

Cedar Rapids Linn County Solid Waste Agency

FIGURE 3

Water Table Contour Map – August 2024

Date: JANUARY 2025	Revision Date:	
Drawn By: DAT	Checked By: GMN	Project: 24C034.00

Path: Q:\Cedar Rapids Linn Co SWA IA\24C034.00\GIS\mxd\2024 AWQR\Figure 3 - Water Table Contour 0824.mxd Date: 1/9/2025

NOTES:

1. Aerial imagery was flown in Spring 2023 and provided by Linn County, Iowa.

LEGEND

Leachate Piezometer

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

0 150 300 Feet

N

Cedar Rapids Linn County Solid Waste Agency

FIGURE 4

LEACHATE MONITORING LOCATION MAP

Date: JANUARY 2025	Revision Date:	
Drawn By: DAT	Checked By: GMN	Project: 24C034.00

Path: Q:\Cedar Rapids Linn Co SWA IA\24C034.00\GIS\mxd\2024 AWQR\Figure 4 - Leachate Monitoring Location Map.mxd Date: 1/8/2025

NOTES:

1. Aerial imagery was flown in Spring 2023 and provided by Linn County, Iowa.

LEGEND

- Methane Monitoring Locations

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

N

0 150 300 Feet

Cedar Rapids Linn County Solid Waste Agency

FIGURE 5

METHANE MONITORING NETWORK

Date: JANUARY 2025	Revision Date:	
Drawn By: DAT	Checked By: GMN	Project: 24C034.00

Path: Q:\Cedar Rapids Linn Co SWA IA\24C034.00\GIS\mxd\2024 AWQR\Figure 5 - Gas Monitoring Report.mxd Date: 1/8/2025

Appendix A
Reporting Period Monitoring Documentation
March and August 2024

IDNR Forms
Laboratory Analytical Reports (with Chain of Custody)
Data Validation Reports

March 2024 Sampling Event

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: AW-1 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 736.84
Top of screen (ft. MSL): 711.84 | Materials: PVC | Top of Casing elevation (ft. MSL): 739.51
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	36.83	N/A*	N/A*
Water elevation (ft. MSL)	702.68	N/A*	N/A*

3 Well Volumes (gal): 5.30 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	47.67	48.00	0.33

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at AW-1. In Spring 2024, AW-1 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: AW-2 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 788.60
Top of screen (ft. MSL): 710.60 | Materials: PVC | Top of Casing elevation (ft. MSL): 788.18
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	77.77	N/A*	N/A*
Water elevation (ft. MSL)	710.41	N/A*	N/A*

3 Well Volumes (gal): 9.69 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	97.58	97.50	0.08

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at AW-2. In Spring 2024, AW-2 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: AW-3 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 799.70
Top of screen (ft. MSL): 711.70 | Materials: PVC | Top of Casing elevation (ft. MSL): 799.31
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	92.07	N/A*	N/A*
Water elevation (ft. MSL)	707.24	N/A*	N/A*

3 Well Volumes (gal): 7.60 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	107.61	107.90	0.29

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at AW-3. In Spring 2024, AW-3 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: AW-4 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 723.44
Top of screen (ft. MSL): 712.44 | Materials: PVC | Top of Casing elevation (ft. MSL): 725.76
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	24.77	N/A*	N/A*
Water elevation (ft. MSL)	700.99	N/A*	N/A*

3 Well Volumes (gal): 4.18 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	33.32	33.10	0.22

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at AW-4. In Spring 2024, AW-4 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: AW-5 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 718.94
Top of screen (ft. MSL): 711.44 | Materials: PVC | Top of Casing elevation (ft. MSL): 721.33
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	20.26	N/A*	N/A*
Water elevation (ft. MSL)	701.07	N/A*	N/A*

3 Well Volumes (gal): 4.71 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	29.89	30.25	0.36

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at AW-55. In Spring 2024, AW-5 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: AW-6 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 718.94
Top of screen (ft. MSL): 651.44 | Materials: PVC | Top of Casing elevation (ft. MSL): 721.13
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	20.56	N/A*	N/A*
Water elevation (ft. MSL)	700.57	N/A*	N/A*

3 Well Volumes (gal): 28.91 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	79.69	79.50	0.19

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at AW-6. In Spring 2024, AW-6 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: CRL-9 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 734.10
Top of screen (ft. MSL): 672.89 | Materials: PVC | Top of Casing elevation (ft. MSL): 736.59
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	34.61	N/A*	N/A*
Water elevation (ft. MSL)	701.98	N/A*	N/A*

3 Well Volumes (gal): 19.12 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	73.70	73.65	0.05

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at CRL-9. In Spring 2024, CRL-9 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-11 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 742.00
Top of screen (ft. MSL): 678.44 | Materials: PVC | Top of Casing elevation (ft. MSL): 745.62
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	41.38	N/A*	N/A*
Water elevation (ft. MSL)	704.24	N/A*	N/A*

3 Well Volumes (gal): 15.06 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	72.18	72.60	0.42

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-11. In Spring 2024, MW-11 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-12 | Weather: Partly Cloudy, 39°F, NNE wind @ 4 mph
Date: 3/28/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 742.11
Top of screen (ft. MSL): 708.84 | Materials: PVC | Top of Casing elevation (ft. MSL): 745.37
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	41.00	40.98	41.04
Water elevation (ft. MSL):	704.37	704.39	704.33

3 Well Volumes (gal): 2.70 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	46.53	46.80	0.27

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 700.37 | Flow Rate (mL/min): 200 | Volume removed (gal): 0.8 | Volume sampled (L): 1.87
Well dry? (Y/N): No | Odor? (Y/N): Yes | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-12_24_03	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8081B - beta-BHC	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020B - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	11:07	11:10	11:12
Temp (°C)	13.25	12.85	12.98
Sp. Cond (umhos/cm)	3541.1	3538.4	3550.6
pH	6.48	6.49	6.49
DO (mg/l)	0.94	1.07	1.01
ORP (mV)	-16.6	-16.2	-16.4
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-12	Weather:	Partly Cloudy, 39°F, NNE wind @ 4 mph
Date:	3/28/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments:

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-13 | Weather: Clear, 37°F, NNE wind @ 4 mph,
Date: 3/28/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 737.34
Top of screen (ft. MSL): 714.16 | Materials: PVC | Top of Casing elevation (ft. MSL): 740.99
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	36.45	36.45	37.05
Water elevation (ft. MSL):	704.54	704.54	703.94

3 Well Volumes (gal): 2.63 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	41.83	42.15	0.32

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 700.99 | Flow Rate (mL/min): 200 | Volume removed (gal): 1.0 | Volume sampled (L): 3.37
Well dry? (Y/N): No | Odor? (Y/N): Yes* | Color? (Y/N): Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-13_24_03	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020B - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	10:21	10:23	10:26
Temp (°C)	13.25	13.74	13.54
Sp. Cond (umhos/cm)	2547.6	2547.8	2527.5
pH	6.53	6.53	6.53
DO (mg/l)	0.17	0.15	0.13
ORP (mV)	-95.6	-97.5	-99.0
Turbidity (NTU)	3.21	1.79	1.51

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-13	Weather:	Clear, 37°F, NNE wind @ 4 mph,
Date:	3/28/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments: *Slight color, odor, slight effervescence and suspended solids in sample.

Collected the field blank (FB-1_24_03) at 10:05.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-14 | Weather: Clear, 35°F, NE wind @ 3 mph
Date: 3/28/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 737.42
Top of screen (ft. MSL): 679.13 | Materials: PVC | Top of Casing elevation (ft. MSL): 740.93
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	36.57	36.57	39.02
Water elevation (ft. MSL):	704.36	704.36	701.91

3 Well Volumes (gal): 14.78 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	66.80	67.15	0.35

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 678.93 | Flow Rate (mL/min): 150 | Volume removed (gal): 1.3 | Volume sampled (L): 1.37
Well dry? (Y/N): No | Odor? (Y/N): Yes | Color? (Y/N): Yes, slight

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-14_24_03	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020B - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	9:27	9:30	9:34
Temp (°C)	12.96	13.36	13.34
Sp. Cond (umhos/cm)	2095.1	2114.0	2136.7
pH	6.44	6.44	6.44
DO (mg/l)	0.17	0.16	0.15
ORP (mV)	-81.3	-81.5	-81.0
Turbidity (NTU)	2.97	2.71	1.53

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-14	Weather:	Clear, 35°F, NE wind @ 3 mph
Date:	3/28/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments: *Slight color and odor.

Collected field duplicate (FD-1_24_03) at MW-14.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-15 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 735.19
Top of screen (ft. MSL): 673.59 | Materials: PVC | Top of Casing elevation (ft. MSL): 737.99
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	34.36	N/A*	N/A*
Water elevation (ft. MSL)	703.63	N/A*	N/A*

3 Well Volumes (gal): 17.13 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	69.40	69.65	0.25

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-15. In Spring 2024, MW-15 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-16	Weather:	Clear, 44°F, ESE wind @ 16 mph
Date:	3/29/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	734.81
Top of screen (ft. MSL):	711.67	Materials:	PVC	Top of Casing elevation (ft. MSL):	737.92
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	34.55	34.36	34.60
Water elevation (ft. MSL):	703.37	703.56	703.32

3 Well Volumes (gal): 3.28 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	41.25	41.50	0.25

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	699.92	Flow Rate (mL/min):	200	Volume removed (gal):	1.0
Well dry? (Y/N):	No	Odor? (Y/N):	Yes*	Volume sampled (L):	3.37
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-16_24_03	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020B - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	10:04	10:06	10:08
Temp (°C)	11.54	11.28	11.58
Sp. Cond (umhos/cm)	1732.5	1727.3	1729.5
pH	6.65	6.65	6.64
DO (mg/l)	0.86	1.00	0.94
ORP (mV)	-82.8	-82.7	-82.3
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-16	Weather:	Clear, 44°F, ESE wind @ 16 mph
Date:	3/29/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments: *Slight yellow color and odor.

Collected field duplicate (FD-2_24_03) at MW-16.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-17 | Weather: Clear, 38°F, ESE wind @ 13 mph
Date: 3/29/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 734.80
Top of screen (ft. MSL): 709.99 | Materials: PVC | Top of Casing elevation (ft. MSL): 736.68
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	29.05	28.81	28.97
Water elevation (ft. MSL):	707.63	707.87	707.71

3 Well Volumes (gal): 3.74 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	36.69	36.90	0.21

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 703.18 | Flow Rate (mL/min): 200 | Volume removed (gal): 1.0 | Volume sampled (L): 3.87
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-17_24_03	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020B - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading:
Time	9:10	9:12	9:14
Temp (°C)	10.62	10.59	10.61
Sp. Cond (umhos/cm)	2493.5	2499.3	2482.1
pH	6.96	6.96	6.95
DO (mg/l)	0.43	0.49	0.56
ORP (mV)	-135.4	-135.4	-135.1
Turbidity (NTU)	4.74	1.36	0.76

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-17	Weather:	Clear, 38°F, ESE wind @ 13 mph
Date:	3/29/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments: *Very slight color.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-18 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 734.40
Top of screen (ft. MSL): 676.53 | Materials: PVC | Top of Casing elevation (ft. MSL): 736.28
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	30.21	N/A*	N/A*
Water elevation (ft. MSL)	706.07	N/A*	N/A*

3 Well Volumes (gal): 16.89 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	64.75	65.10	0.35

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-18. In Spring 2024, MW-18 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-19 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 721.10
Top of screen (ft. MSL): 680.23 | Materials: PVC | Top of Casing elevation (ft. MSL): 723.01
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	21.59	N/A*	N/A*
Water elevation (ft. MSL)	701.42	N/A*	N/A*

3 Well Volumes (gal): 12.81 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	47.78	47.80	0.02

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-19. In Spring 2024, MW-19 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-20 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 721.14
Top of screen (ft. MSL):* 706.73 | Materials: PVC | Top of Casing elevation (ft. MSL)*: 723.48
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	22.15	N/A**	N/A**
Water elevation (ft. MSL)	701.33	N/A**	N/A**

3 Well Volumes (gal): 2.25 | Screen submerged? (Y/N): No

	Constructed*	Measured	Difference
Well Depth (ft. TOC)	26.75	26.50	0.25

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample**

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected**	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *Well replaced in 2005 - could not find well construction form on DocDNA. TOC and Constructed Well Depth from 2005 AWQR. TOS estimated.

**In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-21. In Spring 2024, MW-21 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-21 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 730.62
Top of screen (ft. MSL):* 706.93 | Materials: PVC | Top of Casing elevation (ft. MSL): 732.88
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	31.24	N/A**	N/A**
Water elevation (ft. MSL)	701.64	N/A**	N/A**

3 Well Volumes (gal): 2.57 | Screen submerged? (Y/N): No

	Constructed*	Measured	Difference
Well Depth (ft. TOC)	36.50	35.90	0.60

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample**

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected**	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *Well replaced in 2005 - could not find well construction form on DocDNA. Constructed Well Depth from 2005 AWQR plus the Spring 2021 casing extension. TOS estimated.

**In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-21. In Spring 2024, MW-21 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-22 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 731.05
Top of screen (ft. MSL): 681.27 | Materials: PVC | Top of Casing elevation (ft. MSL): 733.34
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	31.69	N/A*	N/A*
Water elevation (ft. MSL)	701.65	N/A*	N/A*

3 Well Volumes (gal): 12.60 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	57.45	57.50	0.05

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-22. In Spring 2024, MW-22 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-23 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 734.30
Top of screen (ft. MSL): 712.29 | Materials: PVC | Top of Casing elevation (ft. MSL): 736.74
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	34.77	N/A*	N/A*
Water elevation (ft. MSL)	701.97	N/A*	N/A*

3 Well Volumes (gal): 2.29 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	39.45	39.50	0.05

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-23. In Spring 2024, MW-23 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-24 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 783.32
Top of screen (ft. MSL):* 707.00 | Materials: PVC | Top of Casing elevation (ft. MSL)*: 785.70
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	81.27	N/A**	N/A**
Water elevation (ft. MSL)	704.43	N/A**	N/A**

3 Well Volumes (gal): 3.63 | Screen submerged? (Y/N): No

	Constructed*	Measured	Difference
Well Depth (ft. TOC)	88.70	89.00	0.30

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample**

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected**	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *Well replaced in 2005 - could not find well construction form on DocDNA. TOC and Constructed Well Depth from 2005 AWQR. TOS estimated.

**In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-24. In Spring 2024, MW-24 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-25 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 781.70
Top of screen (ft. MSL): 679.02 | Materials: PVC | Top of Casing elevation (ft. MSL): 784.20
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	79.80	N/A*	N/A*
Water elevation (ft. MSL)	704.40	N/A*	N/A*

3 Well Volumes (gal): 14.86 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	110.18	110.20	0.02

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-25. In Spring 2024, MW-25 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-26 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 807.70
Top of screen (ft. MSL): 716.70 | Materials: PVC | Top of Casing elevation (ft. MSL): 811.58
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	104.00	103.19	105.21
Water elevation (ft. MSL)	707.58	708.39	706.37

3 Well Volumes (gal): 2.88 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	109.88	111.35	1.47

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-26. In Spring 2024, MW-26 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-27 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 807.30
Top of screen (ft. MSL): 671.66 | Materials: PVC | Top of Casing elevation (ft. MSL): 809.66
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	102.95	N/A*	N/A*
Water elevation (ft. MSL)	706.71	N/A*	N/A*

3 Well Volumes (gal): 19.58 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	143.00	143.35	0.35

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-27 is a water level only location.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-28 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 814.40
Top of screen (ft. MSL): 715.46 | Materials: PVC | Top of Casing elevation (ft. MSL): 816.62
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	109.82	N/A*	N/A*
Water elevation (ft. MSL)	706.80	N/A*	N/A*

3 Well Volumes (gal): 3.10 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	116.16	117.15	0.99

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-28. In Spring 2024, MW-28 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-29 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 813.80
Top of screen (ft. MSL): 679.70 | Materials: PVC | Top of Casing elevation (ft. MSL): 816.20
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	109.44	N/A*	N/A*
Water elevation (ft. MSL)	706.76	N/A*	N/A*

3 Well Volumes (gal): 15.68 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	141.50	141.75	0.25

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-29 is a water level only location.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-30 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 788.60
Top of screen (ft. MSL): 712.40 | Materials: PVC | Top of Casing elevation (ft. MSL): 790.98
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	83.23	N/A*	N/A*
Water elevation (ft. MSL)	707.75	N/A*	N/A*

3 Well Volumes (gal): 2.62 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	88.58	89.60	1.02

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-30. In Spring 2024, MW-30 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-31 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 787.90
Top of screen (ft. MSL): 671.00 | Materials: PVC | Top of Casing elevation (ft. MSL): 790.06
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	83.73	N/A*	N/A*
Water elevation (ft. MSL)	706.33	N/A*	N/A*

3 Well Volumes (gal): 19.72 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	124.06	124.20	0.14

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-31. In Spring 2024, MW-31 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-32 | Weather: Partly Cloudy, 45°F, N wind @ 4 mph
Date: 3/28/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 746.80
Top of screen (ft. MSL): 713.62 | Materials: PVC | Top of Casing elevation (ft. MSL): 749.01
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	47.18	47.13	47.21
Water elevation (ft. MSL):	701.83	701.88	701.80

3 Well Volumes (gal): 4.13 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	55.62	55.80	0.18

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 699.01 | Flow Rate (mL/min): 200 | Volume removed (gal): 2.4 | Volume sampled (L): 3.87
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-32_24_03	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	UEPA 6020B - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	13:17	13:20	13:22
Temp (°C)	12.52	12.49	12.19
Sp. Cond (umhos/cm)	3388.6	3365.3	3362.0
pH	6.70	6.70	6.70
DO (mg/l)	0.59	0.55	0.42
ORP (mV)	-18.8	-19.2	-20.1
Turbidity (NTU)	14.53	14.37	13.31

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-32	Weather:	Partly Cloudy, 45°F, N wind @ 4 mph
Date:	3/28/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments:

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-33	Weather:	Clear, 41°F, NNE wind @ 4 mph
Date:	3/28/024	Personnel:	O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.86	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	746.36
Top of screen (ft. MSL):	670.39	Materials:	PVC	Top of Casing elevation (ft. MSL):	749.92
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	47.86	47.78	47.84
Water elevation (ft. MSL):	702.06	702.14	702.08

3 Well Volumes (gal): 17.93 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	84.53	84.70	0.17

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	670.92	Flow Rate (mL/min):	200	Volume removed (gal):	2.2
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-33_24_03	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020B - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	12:10	12:13	12:16
Temp (°C)	11.68	11.46	11.57
Sp. Cond (umhos/cm)	1944.2	1921.5	1901.6
pH	6.94	6.94	6.94
DO (mg/l)	0.19	0.18	0.18
ORP (mV)	-36.9	-37.4	-38.1
Turbidity (NTU)	2.59	0.09	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-33	Weather:	Clear, 41°F, NNE wind @ 4 mph
Date:	3/28/024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments:

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-34 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 745.33
Top of screen (ft. MSL): 708.91 | Materials: PVC | Top of Casing elevation (ft. MSL): 748.72
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	45.65	N/A*	N/A*
Water elevation (ft. MSL)	703.07	N/A*	N/A*

3 Well Volumes (gal): 2.03 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	49.81	49.50	0.31

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-34. In Spring 2024, MW-34 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-35 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 741.63
Top of screen (ft. MSL): 711.04 | Materials: PVC | Top of Casing elevation (ft. MSL): 744.89
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	42.58	N/A*	N/A*
Water elevation (ft. MSL)	702.31	N/A*	N/A*

3 Well Volumes (gal): 0.62 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	43.85	45.40	1.55

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-35. In Spring 2024, MW-35 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-36 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 741.58
Top of screen (ft. MSL): 674.03 | Materials: PVC | Top of Casing elevation (ft. MSL): 745.22
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	42.96	N/A*	N/A*
Water elevation (ft. MSL)	702.26	N/A*	N/A*

3 Well Volumes (gal): 16.25 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	76.19	76.20	0.01

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-36. In Spring 2024, MW-36 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-37 | Weather: Clear, 32°F, W wind @ 16 mph
Date: 3/27/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 782.70
Top of screen (ft. MSL): 724.97 | Materials: PVC | Top of Casing elevation (ft. MSL): 784.81
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	65.21	N/A	N/A
Water elevation (ft. MSL):	719.60	N/A	N/A

3 Well Volumes (gal): 2.26 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	69.84	69.95	0.11

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) | X No-purge (specify sample interval): Bottom of Screen
_ Bailer | _ Other (specify): _

Equipment type: _ Submersible pump | _ Peristaltic pump | X Bladder pump
_ Inertial lift pump | _ Bailer | _ No-purge (specify): _
_ Other (specify): _

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 715.81 | Flow Rate (mL/min): 200 | Volume removed (gal): N/A | Volume sampled (L): 4.37
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-37_24_03	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(4) Amber Glass 250 mL - Unpreserved	No
	USEPA 8081B - beta-BHC		No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020B - Appendix I Total Metals & Total Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-37	Weather:	Clear, 32°F, W wind @ 16 mph
Date:	3/27/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Field Analysis

	Final Reading
Time	11:06
Temp (°C)	8.28
Sp. Cond (umhos/cm)	649.15
pH	7.23
DO (mg/l)	4.95
ORP (mV)	18.9
Turbidity (NTU)	0.00

Comments: No purge sampling conducted since well recharge rate is less than 100 mL/min. Field measurements collected prior to sample collection using flow-through cell.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-38 | Weather: Clear, 29°F, W wind @ 17 mph
Date: 3/27/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 782.60
Top of screen (ft. MSL): 699.26 | Materials: PVC | Top of Casing elevation (ft. MSL): 784.81
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	65.45	65.97	67.99
Water elevation (ft. MSL):	719.36	718.84	716.82

3 Well Volumes (gal): 12.27 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	90.55	90.10	0.45

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 699.81 | Flow Rate (mL/min): 200 | Volume removed (gal): 3.0 | Volume sampled (L): 1.87
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-38_24_03	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020B - Appendix I Total Metals & Total Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	10:36	10:40	10:43
Temp (°C)	9.45	9.52	9.52
Sp. Cond (umhos/cm)	400.89	404.68	404.03
pH	7.51	7.51	7.52
DO (mg/l)*	0.57	0.48	0.44
ORP (mV)	-21.8	-32.9	-33.6
Turbidity (NTU)	2.6	4.1	4.8

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-38	Weather:	Clear, 29°F, W wind @ 17 mph
Date:	3/27/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments:

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: VP-3 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 774.99
Top of screen (ft. MSL): 710.42 | Materials: PVC | Top of Casing elevation (ft. MSL): 774.52
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	63.30	N/A*	N/A*
Water elevation (ft. MSL)	711.22	N/A*	N/A*

3 Well Volumes (gal): 5.28 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	74.10	74.30	0.20

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at VP-3. In Spring 2024, VP-3 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: VP-4 | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 791.29
Top of screen (ft. MSL): 718.01 | Materials: PVC | Top of Casing elevation (ft. MSL): 790.91
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	80.11	N/A*	N/A*
Water elevation (ft. MSL)	710.80	N/A*	N/A*

3 Well Volumes (gal): 1.41 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	82.99	83.25	0.26

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at VP-4. In Spring 2024, VP-4 was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-101A | Weather: Partly Cloudy, 36°F, W wind @ 16 mph
Date: 3/27/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 717.95
Top of screen (ft. MSL): 706.36 | Materials: PVC | Top of Casing elevation (ft. MSL): 720.47
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	18.87	18.86	18.87
Water elevation (ft. MSL):	701.60	701.61	701.60

3 Well Volumes (gal): 5.22 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	29.55	29.45	0.10

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | X Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:) 693.97 | Flow Rate (mL/min): 200 | Volume removed (gal): 1.0 | Volume sampled (L): 4.37
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-101A_24_03	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(4) Amber Glass 250 mL - Unpreserved	No
	USEPA 8081B - beta-BHC		No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020B - Appendix I Total Metals & Total Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-101A	Weather:	Partly Cloudy, 36°F, W wind @ 16 mph
Date:	3/27/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Field Analysis

			Final Reading
Time	13:10	13:12	13:13
Temp (°C)	11.42	11.49	11.22
Sp. Cond (umhos/cm)	995.81	990.49	990.39
pH	6.91	6.91	6.91
DO (mg/l)	1.02	1.02	1.08
ORP (mV)	78.2	73.1	70.7
Turbidity (NTU)	0.00	0.04	0.00

Comments:

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-101B | Weather: Partly Cloudy, 37°F, W wind @ 16 mph
Date: 3/27/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 717.86
Top of screen (ft. MSL): 640.36 | Materials: PVC | Top of Casing elevation (ft. MSL): 720.33
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	18.63	18.66	19.29
Water elevation (ft. MSL):	701.70	701.67	701.04

3 Well Volumes (gal): 32.41 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	84.90	84.85	0.05

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | X Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:) 640.33 | Flow Rate (mL/min): 125 | Volume removed (gal): 1.0 | Volume sampled (L): 1.87
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-101B_24_03	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020B - Appendix I Total Metals & Total Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:14	14:18	14:22
Temp (°C)	10.90	10.61	10.91
Sp. Cond (umhos/cm)	1076.1	1078.9	1078.4
pH	7.26	7.26	7.26
DO (mg/l)	3.21	3.38	3.42
ORP (mV)	89.7	91.6	92.7
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-101B	Weather:	Partly Cloudy, 37°F, W wind @ 16 mph
Date:	3/27/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments:

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-102A | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 723.29
Top of screen (ft. MSL): 705.11 | Materials: PVC | Top of Casing elevation (ft. MSL): 725.57
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	23.92	N/A*	N/A*
Water elevation (ft. MSL)	701.65	N/A*	N/A*

3 Well Volumes (gal): 4.81 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	33.75	33.75	0.00

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-102A is a water level only location.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-102B | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 723.68
Top of screen (ft. MSL): 651.28 | Materials: PVC | Top of Casing elevation (ft. MSL): 726.21
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	24.62	N/A*	N/A*
Water elevation (ft. MSL)	701.59	N/A*	N/A*

3 Well Volumes (gal): 30.99 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	88.00	88.00	0.00

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-102E
In Spring 2024, MW-102B was a water level only location. The next annual monitoring event is scheduled for Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-103A | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 717.62
Top of screen (ft. MSL): 707.62 | Materials: PVC | Top of Casing elevation (ft. MSL): 720.34
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	18.08	N/A*	N/A*
Water elevation (ft. MSL)	702.26	N/A*	N/A*

3 Well Volumes (gal): 2.36 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	22.90	22.50	0.40

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-103A is a water level only location.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-103C | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 717.32
Top of screen (ft. MSL): 649.32 | Materials: PVC | Top of Casing elevation (ft. MSL): 719.90
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	17.66	N/A*	N/A*
Water elevation (ft. MSL)	702.24	N/A*	N/A*

3 Well Volumes (gal): 28.45 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	75.85	75.50	0.35

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-103C. In Spring 2024, MW-103C was a water level only location. The next annual monitoring event is scheduled for Fall 2024

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-104B | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 771.09
Top of screen (ft. MSL): 686.09 | Materials: PVC | Top of Casing elevation (ft. MSL): 773.35
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	65.42	N/A*	N/A*
Water elevation (ft. MSL)	707.93	N/A*	N/A*

3 Well Volumes (gal): 15.98 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	98.10	98.20	0.10

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-104B. In Spring 2024, MW-104B was a water level only location. The next annual monitoring event is scheduled for Fall 2024

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-105A | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 721.80
Top of screen (ft. MSL): 708.80 | Materials: PVC | Top of Casing elevation (ft. MSL): 723.97
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	23.06	N/A*	N/A*
Water elevation (ft. MSL)	700.91	N/A*	N/A*

3 Well Volumes (gal): 3.59 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	30.40	30.35	0.05

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-105A. In Spring 2024, MW-105A was a water level only location. The next annual monitoring event is scheduled for Fall 2024

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-105B | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 721.80
Top of screen (ft. MSL): 648.80 | Materials: PVC | Top of Casing elevation (ft. MSL): 724.00
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	23.06	N/A*	N/A*
Water elevation (ft. MSL)	700.94	N/A*	N/A*

3 Well Volumes (gal): 30.53 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	85.50	85.40	0.10

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-105B. In Spring 2024, MW-105B was a water level only location. The next annual monitoring event is scheduled for Fall 2024

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-106A | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 714.04
Top of screen (ft. MSL): 707.34 | Materials: PVC | Top of Casing elevation (ft. MSL): 716.19
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	15.12	N/A*	N/A*
Water elevation (ft. MSL)	701.07	N/A*	N/A*

3 Well Volumes (gal): 4.12 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	23.55	23.50	0.05

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-106A. In Spring 2024, MW-106A was a water level only location. The next annual monitoring event is scheduled for Fall 2024

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-107A | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 719.13
Top of screen (ft. MSL): 706.90 | Materials: PVC | Top of Casing elevation (ft. MSL): 721.65
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	20.49	N/A*	N/A*
Water elevation (ft. MSL)	701.16	N/A*	N/A*

3 Well Volumes (gal): 4.63 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	29.95	29.65	0.30

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-107A. In Spring 2024, MW-107A was a water level only location. The next annual monitoring event is scheduled for Fall 2024

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-107B | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 719.12
Top of screen (ft. MSL): 660.37 | Materials: PVC | Top of Casing elevation (ft. MSL): 721.91
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	20.45	N/A*	N/A*
Water elevation (ft. MSL)	701.46	N/A*	N/A*

3 Well Volumes (gal): 23.01 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	67.51	67.60	0.09

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-107B. In Spring 2024, MW-107B was a water level only location. The next annual monitoring event is scheduled for Fall 2024

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-108A | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 719.45
Top of screen (ft. MSL): 710.15 | Materials: PVC | Top of Casing elevation (ft. MSL): 719.11
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	16.19	N/A*	N/A*
Water elevation (ft. MSL)	702.92	N/A*	N/A*

3 Well Volumes (gal): 1.52 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	19.30	19.30	0.00

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-108A is a water level only location.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-108B | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.25 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 719.45
Top of screen (ft. MSL): 646.77 | Materials: PVC | Top of Casing elevation (ft. MSL): 719.00
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	15.44	N/A*	N/A*
Water elevation (ft. MSL)	703.56	N/A*	N/A*

3 Well Volumes (gal): 29.96 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC)	76.70	76.80	0.10

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	Flow Rate (mL/min):	Volume removed (gal):	Volume sampled (L):
N/A	N/A	N/A	N/A

Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-108B. In Spring 2024, MW-108B was a water level only location. The next annual monitoring event is scheduled for Fall 2024

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-109A | Weather: Cloudy, 35° F, west winds 20-30 mph
Date: 3/26/2024 | Personnel: O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.25 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 721.23
Top of screen (ft. MSL): 707.23 | Materials: PVC | Top of Casing elevation (ft. MSL): 724.17
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	23.35	22.45	22.73
Water elevation (ft. MSL)	700.82	701.72	701.44

3 Well Volumes (gal): 2.00 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC)	27.45	27.15	0.30

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:) N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

	Final Reading
Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, annual monitoring was last conducted in Fall 2023 at MW-109A. In Spring 2024, MW-109A was a water level only location. The next annual monitoring event is scheduled for Fall 2024

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-109B	Weather:	Partly Cloudy, 47°F, NW wind @ 4 mph
Date:	3/28/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.25	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	721.27
Top of screen (ft. MSL):	650.27	Materials:	PVC	Top of Casing elevation (ft. MSL):	724.37
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	22.72	22.69	22.82
Water elevation (ft. MSL):	701.65	701.68	701.55

3 Well Volumes (gal): 29.99 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	84.05	83.65	0.40

Well conditions commentary: Well conditions are inspected annually - scheduled for Fall 2024 event.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	645.37	Flow Rate (mL/min):	125	Volume removed (gal):	0.7
Well dry? (Y/N):	No	Odor? (Y/N):	No	Color? (Y/N):	No

Volume sampled (L): 1.37

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-109B_24_03	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020B - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:10	14:14	14:18
Temp (°C)	11.51	11.27	12.04
Sp. Cond (umhos/cm)	2122.0	2109.0	2126.1
pH	6.68	6.69	6.68
DO (mg/l)	0.44	0.33	0.31
ORP (mV)	5.5	6.3	6.0
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-109B	Weather:	Partly Cloudy, 47°F, NW wind @ 4 mph
Date:	3/28/2024	Personnel:	O.A. Technical Services: Tyler Merritt

Comments:

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gina Wilming
Foth Infrastructure & Environment, LLC
411 6th Avenue SE
Suite 400
Cedar Rapids, Iowa 52401

Generated 4/10/2024 2:19:58 PM

JOB DESCRIPTION

CRLCSWA Site 1
23C071.00

JOB NUMBER

310-277805-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
4/10/2024 2:19:58 PM

Authorized for release by
Conner Calhoun, Project Management Assistant I
Conner.Calhoun@et.eurofinsus.com
(319)277-2401

Table of Contents

Job ID: 310-277805-1 Eurofins Cedar Falls

Job Narrative
310-277805-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/29/2024 2:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.1°C, 0.4°C, 1.0°C, 1.9°C and 2.2°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-417725. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8270E: The method blank for preparation batch 310-417725 and analytical batch 310-417812 contained Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
Method 8151A: The surrogate recovery for the method blank associated with preparation batch 680-831059 and analytical batch 680-831391 was outside the control limits. All the associated samples were within surrogate control limits and non-detect for target analytes. Re-extraction would have been outside of holding time.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-417747. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: (LCS 310-417747/2-B) and (LCSD 310-417747/3-B). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6020B: The continuing calibration verification (CCV) associated with batch 310-418203 recovered above the upper control limit for Zinc. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-33_24_03 (310-277805-7), MW-37_24_03 (310-277805-8), MW-38_24_03 (310-277805-9), MW-101A_24_03 (310-277805-10), MW-101B_24_03 (310-277805-11), MW-109B_24_03 (310-277805-12), FD-1_24_03 (310-277805-13) and FB-1_24_03 (310-277805-15).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 310-277805-1 (Continued) Eurofins Cedar Falls

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-277805-1	MW-12_24_03	Water	03/28/24 11:15	03/29/24 14:40
310-277805-2	MW-13_24_03	Water	03/28/24 10:30	03/29/24 14:40
310-277805-3	MW-14_24_03	Water	03/28/24 09:35	03/29/24 14:40
310-277805-4	MW-16_24_03	Water	03/29/24 10:10	03/29/24 14:40
310-277805-5	MW-17_24_03	Water	03/29/24 09:15	03/29/24 14:40
310-277805-6	MW-32_24_03	Water	03/28/24 13:25	03/29/24 14:40
310-277805-7	MW-33_24_03	Water	03/28/24 12:20	03/29/24 14:40
310-277805-8	MW-37_24_03	Water	03/27/24 11:05	03/29/24 14:40
310-277805-9	MW-38_24_03	Water	03/27/24 10:45	03/29/24 14:40
310-277805-10	MW-101A_24_03	Water	03/27/24 13:15	03/29/24 14:40
310-277805-11	MW-101B_24_03	Water	03/27/24 14:25	03/29/24 14:40
310-277805-12	MW-109B_24_03	Water	03/28/24 14:20	03/29/24 14:40
310-277805-13	FD-1_24_03	Water	03/28/24 00:00	03/29/24 14:40
310-277805-14	FD-2_24_03	Water	03/29/24 00:00	03/29/24 14:40
310-277805-15	FB-1_24_03	Water	03/28/24 10:05	03/29/24 14:40
310-277805-16	TB-1_24_03	Water	03/28/24 00:00	03/29/24 14:40

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-12_24_03 — Lab Sample ID: 310-277805-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.39		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.623	J	1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.20		1.00	0.230	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.87		1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.152		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.388		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00435		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0760		0.00500	0.00190	mg/L	1		6020B	Total/NA
Thallium	0.00380		0.00100	0.000260	mg/L	1		6020B	Total/NA
Total Suspended Solids	26.3		3.75	1.28	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13_24_03 — Lab Sample ID: 310-277805-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	2.51		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	15.0		1.00	0.230	ug/L	1		8260D	Total/NA
Acetone	5.01	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	3.14		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	3.94		1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	4.87		4.00	0.790	ug/L	1		8260D	Total/NA
Arsenic	0.0527		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.787		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00163		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0147		0.00500	0.00190	mg/L	1		6020B	Total/NA
Thallium	0.000525	J	0.00100	0.000260	mg/L	1		6020B	Total/NA
Total Suspended Solids	144		15.0	5.10	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-14_24_03 — Lab Sample ID: 310-277805-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.96		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	12.1		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	2.55		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	3.20		1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.0253		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.687		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00126		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0217		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	77.0		15.0	5.10	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-16_24_03 — Lab Sample ID: 310-277805-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.13		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	4.60		1.00	0.230	ug/L	1		8260D	Total/NA
Chlorobenzene	2.12		1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.183		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0651		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00254		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0898		0.00500	0.00190	mg/L	1		6020B	Total/NA
Thallium	0.000386	J	0.00100	0.000260	mg/L	1		6020B	Total/NA
Zinc	0.0594		0.0200	0.00640	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-16_24_03 (Continued) — Lab Sample ID: 310-277805-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	38.5		3.75	1.28	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-17_24_03 — Lab Sample ID: 310-277805-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	6.65	J B	10.0	5.50	ug/L	1		8270E	Total/NA
Arsenic	0.0554		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.147		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00627		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0109		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	59.0		15.0	5.10	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-32_24_03 — Lab Sample ID: 310-277805-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.479	J	1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	2.94		1.00	0.230	ug/L	1		8260D	Total/NA
Acetone	3.98	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	1.00		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	14.7		1.00	0.400	ug/L	1		8260D	Total/NA
Bis(2-ethylhexyl) phthalate	6.66	J B	10.2	5.61	ug/L	1		8270E	Total/NA
Arsenic	0.109		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.719		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00305		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00261	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0355		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	30.0		3.75	1.28	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-33_24_03 — Lab Sample ID: 310-277805-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.892	J	1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	0.299	J	0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	5.33		1.00	0.400	ug/L	1		8260D	Total/NA
Bis(2-ethylhexyl) phthalate	6.53	J B	10.0	5.50	ug/L	1		8270E	Total/NA
Arsenic	0.0409		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.517		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00127		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00682		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	11.8		3.75	1.28	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-37_24_03 — Lab Sample ID: 310-277805-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	6.83	J B	10.4	5.73	ug/L	1		8270E	Total/NA
Barium	0.0403		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.000177	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.38	J	1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-38_24_03 — Lab Sample ID: 310-277805-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00107	J	0.00200	0.000530	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-38_24_03 (Continued) — Lab Sample ID: 310-277805-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0459		0.00200	0.000640	mg/L	1		6020B	Total/NA

Client Sample ID: MW-101A_24_03 — Lab Sample ID: 310-277805-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	7.03	J B	10.6	5.85	ug/L	1		8270E	Total/NA
Barium	0.105		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.000391	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00201	J	0.00500	0.00190	mg/L	1		6020B	Total/NA
Selenium	0.00324	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.88		1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-101B_24_03 — Lab Sample ID: 310-277805-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.125		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.000359	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00244	J	0.00500	0.00190	mg/L	1		6020B	Total/NA
Selenium	0.00140	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	0.750	J	1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-109B_24_03 — Lab Sample ID: 310-277805-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.79		1.00	0.230	ug/L	1		8260D	Total/NA
Chlorobenzene	8.20		1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.0196		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.666		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.0191		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0378		0.00500	0.00190	mg/L	1		6020B	Total/NA
Thallium	0.00452		0.00100	0.000260	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.0		2.50	0.850	mg/L	1		I-3765-85	Total/NA

Client Sample ID: FD-1_24_03 — Lab Sample ID: 310-277805-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.61		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	1.96		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	11.8		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	2.61		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	3.35		1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.0253		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.718		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00128		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0220		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	70.0		15.0	5.10	mg/L	1		I-3765-85	Total/NA

Client Sample ID: FD-2_24_03 — Lab Sample ID: 310-277805-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.06		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	1.05		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	4.04		1.00	0.230	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FD-2_24_03 (Continued)

Lab Sample ID: 310-277805-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.83		1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.181		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0649		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00250		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0888		0.00500	0.00190	mg/L	1		6020B	Total/NA
Thallium	0.000367	J	0.00100	0.000260	mg/L	1		6020B	Total/NA
Zinc	0.0605		0.0200	0.00640	mg/L	1		6020B	Total/NA
Total Suspended Solids	35.0		3.75	1.28	mg/L	1		I-3765-85	Total/NA

Client Sample ID: FB-1_24_03

Lab Sample ID: 310-277805-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.496	J	1.00	0.430	ug/L	1		8260D	Total/NA

Client Sample ID: TB-1_24_03

Lab Sample ID: 310-277805-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-12_24_03
Date Collected: 03/28/24 11:15
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 15:02	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 15:02	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 15:02	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 15:02	1
1,1-Dichloroethane	**3.39**		1.00	0.220	ug/L			04/01/24 15:02	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 15:02	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 15:02	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 15:02	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 15:02	1
1,2-Dichlorobenzene	**0.623**	**J**	1.00	0.370	ug/L			04/01/24 15:02	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 15:02	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 15:02	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			04/01/24 15:02	1
1,4-Dichlorobenzene	**1.20**		1.00	0.230	ug/L			04/01/24 15:02	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 15:02	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 15:02	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 15:02	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 15:02	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 15:02	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 15:02	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 15:02	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 15:02	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 15:02	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 15:02	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 15:02	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 15:02	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			04/01/24 15:02	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 15:02	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 15:02	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 15:02	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 15:02	1
cis-1,2-Dichloroethene	**4.87**		1.00	0.210	ug/L			04/01/24 15:02	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 15:02	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 15:02	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 15:02	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 15:02	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 15:02	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 15:02	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 15:02	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 15:02	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 15:02	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 15:02	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 15:02	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 15:02	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 15:02	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 15:02	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 15:02	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 15:02	1

Client Sample ID: MW-12_24_03

Date Collected: 03/28/24 11:15
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*04/01/24 15:02*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/01/24 15:02*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/01/24 15:02*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0402		0.0696	0.0402	ug/L		04/03/24 12:58	04/04/24 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*10 - 136*	*04/03/24 12:58*	*04/04/24 13:47*	*1*
Tetrachloro-m-xylene	*63*		*10 - 130*	*04/03/24 12:58*	*04/04/24 13:47*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 17:35	1
Arsenic	**0.152**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 17:35	1
Barium	**0.388**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 17:35	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 17:35	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 17:35	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:35	1
Cobalt	**0.00435**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 17:35	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 17:35	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 17:35	1
Nickel	**0.0760**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 17:35	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 17:35	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 17:35	1
Thallium	**0.00380**		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 17:35	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:35	1
Zinc	<0.00640		0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 17:35	1
Tin	<0.00230		0.00500	0.00230	mg/L		04/02/24 09:00	04/08/24 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**26.3**		3.75	1.28	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-13_24_03
Date Collected: 03/28/24 10:30
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 15:26	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 15:26	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 15:26	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 15:26	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 15:26	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 15:26	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 15:26	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 15:26	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 15:26	1
1,2-Dichlorobenzene	**2.51**		1.00	0.370	ug/L			04/01/24 15:26	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 15:26	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 15:26	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			04/01/24 15:26	1
1,4-Dichlorobenzene	**15.0**		1.00	0.230	ug/L			04/01/24 15:26	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 15:26	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 15:26	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 15:26	1
Acetone	**5.01**	**J**	10.0	3.10	ug/L			04/01/24 15:26	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 15:26	1
Benzene	**3.14**		0.500	0.220	ug/L			04/01/24 15:26	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 15:26	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 15:26	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 15:26	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 15:26	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 15:26	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 15:26	1
Chlorobenzene	**3.94**		1.00	0.400	ug/L			04/01/24 15:26	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 15:26	1
Chloroethane	**4.87**		4.00	0.790	ug/L			04/01/24 15:26	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 15:26	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 15:26	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 15:26	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 15:26	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 15:26	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 15:26	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 15:26	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 15:26	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 15:26	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 15:26	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 15:26	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 15:26	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 15:26	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 15:26	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 15:26	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 15:26	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 15:26	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 15:26	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 15:26	1

Client Sample ID: MW-13_24_03
Date Collected: 03/28/24 10:30
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*04/01/24 15:26*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/01/24 15:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*04/01/24 15:26*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0995		0.881	0.0995	ug/L		04/03/24 09:39	04/04/24 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*41*	*p*	*26 - 137*	*04/03/24 09:39*	*04/04/24 19:55*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 17:47	1
Arsenic	**0.0527**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 17:47	1
Barium	**0.787**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 17:47	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 17:47	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 17:47	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:47	1
Cobalt	**0.00163**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 17:47	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 17:47	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 17:47	1
Nickel	**0.0147**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 17:47	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 17:47	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 17:47	1
Thallium	**0.000525**	**J**	0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 17:47	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:47	1
Zinc	<0.00640		0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**144**		15.0	5.10	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-14_24_03
Date Collected: 03/28/24 09:35
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 15:48	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 15:48	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 15:48	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 15:48	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 15:48	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 15:48	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 15:48	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 15:48	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 15:48	1
1,2-Dichlorobenzene	**1.96**		1.00	0.370	ug/L			04/01/24 15:48	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 15:48	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 15:48	1
1,4-Dichlorobenzene	**12.1**		1.00	0.230	ug/L			04/01/24 15:48	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 15:48	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 15:48	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 15:48	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 15:48	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 15:48	1
Benzene	**2.55**		0.500	0.220	ug/L			04/01/24 15:48	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 15:48	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 15:48	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 15:48	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 15:48	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 15:48	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 15:48	1
Chlorobenzene	**3.20**		1.00	0.400	ug/L			04/01/24 15:48	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 15:48	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 15:48	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 15:48	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 15:48	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 15:48	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 15:48	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 15:48	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 15:48	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 15:48	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 15:48	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 15:48	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 15:48	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 15:48	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 15:48	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 15:48	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 15:48	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 15:48	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 15:48	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 15:48	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 15:48	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*73 - 130*		*04/01/24 15:48*	*1*

Client Sample ID: MW-14_24_03
Date Collected: 03/28/24 09:35
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/01/24 15:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*04/01/24 15:48*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 17:49	1
Arsenic	**0.0253**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 17:49	1
Barium	**0.687**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 17:49	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 17:49	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 17:49	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:49	1
Cobalt	**0.00126**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 17:49	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 17:49	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 17:49	1
Nickel	**0.0217**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 17:49	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 17:49	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 17:49	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 17:49	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:49	1
Zinc	<0.00640		0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**77.0**		15.0	5.10	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-16_24_03
Date Collected: 03/29/24 10:10
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 16:11	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 16:11	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 16:11	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 16:11	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 16:11	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 16:11	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 16:11	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 16:11	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 16:11	1
1,2-Dichlorobenzene	**1.13**		1.00	0.370	ug/L			04/01/24 16:11	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 16:11	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 16:11	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			04/01/24 16:11	1
1,4-Dichlorobenzene	**4.60**		1.00	0.230	ug/L			04/01/24 16:11	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 16:11	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 16:11	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 16:11	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 16:11	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 16:11	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 16:11	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 16:11	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 16:11	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 16:11	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 16:11	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 16:11	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 16:11	1
Chlorobenzene	**2.12**		1.00	0.400	ug/L			04/01/24 16:11	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 16:11	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 16:11	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 16:11	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 16:11	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 16:11	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 16:11	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 16:11	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 16:11	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 16:11	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 16:11	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 16:11	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 16:11	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 16:11	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 16:11	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 16:11	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 16:11	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 16:11	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 16:11	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 16:11	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 16:11	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 16:11	1

Client Sample ID: MW-16_24_03
Date Collected: 03/29/24 10:10
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*04/01/24 16:11*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/01/24 16:11*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/01/24 16:11*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.103		0.911	0.103	ug/L		04/03/24 09:39	04/04/24 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*38*	*p*	*26 - 137*	*04/03/24 09:39*	*04/04/24 20:16*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 17:51	1
Arsenic	**0.183**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 17:51	1
Barium	**0.0651**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 17:51	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 17:51	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 17:51	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:51	1
Cobalt	**0.00254**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 17:51	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 17:51	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 17:51	1
Nickel	**0.0898**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 17:51	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 17:51	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 17:51	1
Thallium	**0.000386**	**J**	0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 17:51	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:51	1
Zinc	**0.0594**		0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**38.5**		3.75	1.28	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-17_24_03
Date Collected: 03/29/24 09:15
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 16:34	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 16:34	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 16:34	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 16:34	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 16:34	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 16:34	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 16:34	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 16:34	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 16:34	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 16:34	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 16:34	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 16:34	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			04/01/24 16:34	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 16:34	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 16:34	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 16:34	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 16:34	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 16:34	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 16:34	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 16:34	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 16:34	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 16:34	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 16:34	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 16:34	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 16:34	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			04/01/24 16:34	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 16:34	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 16:34	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 16:34	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 16:34	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 16:34	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 16:34	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 16:34	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 16:34	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 16:34	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 16:34	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 16:34	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 16:34	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 16:34	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 16:34	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 16:34	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 16:34	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 16:34	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 16:34	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 16:34	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 16:34	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*04/01/24 16:34*	*1*

Client Sample ID: MW-17_24_03
Date Collected: 03/29/24 09:15
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/01/24 16:34*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/01/24 16:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**6.65**	**J B**	10.0	5.50	ug/L		04/03/24 10:21	04/04/24 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*55*		*45 - 129*	*04/03/24 10:21*	*04/04/24 11:27*	*1*
2-Fluorobiphenyl (Surr)	*46*		*39 - 118*	*04/03/24 10:21*	*04/04/24 11:27*	*1*
Terphenyl-d14 (Surr)	*43*		*12 - 144*	*04/03/24 10:21*	*04/04/24 11:27*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.100		0.887	0.100	ug/L		04/03/24 09:39	04/04/24 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*61*		*26 - 137*	*04/03/24 09:39*	*04/04/24 20:38*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 17:54	1
Arsenic	**0.0554**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 17:54	1
Barium	**0.147**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 17:54	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 17:54	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 17:54	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:54	1
Cobalt	**0.00627**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 17:54	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 17:54	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 17:54	1
Nickel	**0.0109**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 17:54	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 17:54	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 17:54	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 17:54	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:54	1
Zinc	<0.00640		0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**59.0**		15.0	5.10	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-32_24_03
Date Collected: 03/28/24 13:25
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 16:57	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 16:57	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 16:57	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 16:57	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 16:57	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 16:57	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 16:57	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 16:57	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 16:57	1
1,2-Dichlorobenzene	**0.479**	**J**	1.00	0.370	ug/L			04/01/24 16:57	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 16:57	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 16:57	1
1,4-Dichlorobenzene	**2.94**		1.00	0.230	ug/L			04/01/24 16:57	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 16:57	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 16:57	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 16:57	1
Acetone	**3.98**	**J**	10.0	3.10	ug/L			04/01/24 16:57	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 16:57	1
Benzene	**1.00**		0.500	0.220	ug/L			04/01/24 16:57	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 16:57	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 16:57	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 16:57	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 16:57	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 16:57	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 16:57	1
Chlorobenzene	**14.7**		1.00	0.400	ug/L			04/01/24 16:57	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 16:57	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 16:57	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 16:57	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 16:57	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 16:57	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 16:57	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 16:57	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 16:57	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 16:57	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 16:57	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 16:57	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 16:57	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 16:57	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 16:57	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 16:57	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 16:57	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 16:57	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 16:57	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 16:57	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 16:57	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*04/01/24 16:57*	*1*

Client Sample ID: MW-32_24_03
Date Collected: 03/28/24 13:25
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/01/24 16:57*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/01/24 16:57*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**6.66**	**J B**	10.2	5.61	ug/L		04/03/24 10:21	04/04/24 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*65*		*45 - 129*	*04/03/24 10:21*	*04/04/24 11:52*	*1*
2-Fluorobiphenyl (Surr)	*53*		*39 - 118*	*04/03/24 10:21*	*04/04/24 11:52*	*1*
Terphenyl-d14 (Surr)	*47*		*12 - 144*	*04/03/24 10:21*	*04/04/24 11:52*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.100		0.889	0.100	ug/L		04/03/24 09:39	04/04/24 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*35*	*p*	*26 - 137*	*04/03/24 09:39*	*04/04/24 21:00*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 17:56	1
Arsenic	**0.109**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 17:56	1
Barium	**0.719**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 17:56	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 17:56	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 17:56	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:56	1
Cobalt	**0.00305**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 17:56	1
Copper	**0.00261**	**J**	0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 17:56	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 17:56	1
Nickel	**0.0355**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 17:56	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 17:56	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 17:56	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 17:56	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:56	1
Zinc	<0.00640		0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 17:56	1
Tin	<0.00230		0.00500	0.00230	mg/L		04/02/24 09:00	04/08/24 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**30.0**		3.75	1.28	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-33_24_03
Date Collected: 03/28/24 12:20
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 17:20	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 17:20	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 17:20	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 17:20	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 17:20	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 17:20	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 17:20	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 17:20	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 17:20	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 17:20	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 17:20	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 17:20	1
1,4-Dichlorobenzene	**0.892**	**J**	1.00	0.230	ug/L			04/01/24 17:20	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 17:20	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 17:20	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 17:20	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 17:20	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 17:20	1
Benzene	**0.299**	**J**	0.500	0.220	ug/L			04/01/24 17:20	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 17:20	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 17:20	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 17:20	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 17:20	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 17:20	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 17:20	1
Chlorobenzene	**5.33**		1.00	0.400	ug/L			04/01/24 17:20	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 17:20	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 17:20	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 17:20	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 17:20	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 17:20	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 17:20	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 17:20	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 17:20	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 17:20	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 17:20	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 17:20	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 17:20	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 17:20	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 17:20	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 17:20	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 17:20	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 17:20	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 17:20	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 17:20	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 17:20	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*73 - 130*		*04/01/24 17:20*	*1*

Client Sample ID: MW-33_24_03
Date Collected: 03/28/24 12:20
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/01/24 17:20*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*04/01/24 17:20*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**6.53**	**J B**	10.0	5.50	ug/L		04/03/24 10:21	04/04/24 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*86*		*45 - 129*	*04/03/24 10:21*	*04/04/24 12:19*	*1*
2-Fluorobiphenyl (Surr)	*75*		*39 - 118*	*04/03/24 10:21*	*04/04/24 12:19*	*1*
Terphenyl-d14 (Surr)	*59*		*12 - 144*	*04/03/24 10:21*	*04/04/24 12:19*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 18:08	1
Arsenic	**0.0409**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 18:08	1
Barium	**0.517**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 18:08	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 18:08	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 18:08	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:08	1
Cobalt	**0.00127**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 18:08	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 18:08	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 18:08	1
Nickel	**0.00682**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 18:08	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 18:08	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 18:08	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 18:08	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:08	1
Zinc	<0.00640	^+	0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 18:08	1
Tin	<0.00230		0.00500	0.00230	mg/L		04/02/24 09:00	04/08/24 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**11.8**		3.75	1.28	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-37_24_03
Date Collected: 03/27/24 11:05
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 17:43	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 17:43	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 17:43	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 17:43	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 17:43	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 17:43	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 17:43	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 17:43	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 17:43	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 17:43	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 17:43	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 17:43	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			04/01/24 17:43	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			04/01/24 17:43	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 17:43	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 17:43	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 17:43	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 17:43	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 17:43	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 17:43	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 17:43	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 17:43	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 17:43	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 17:43	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 17:43	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 17:43	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			04/01/24 17:43	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 17:43	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 17:43	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 17:43	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 17:43	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 17:43	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 17:43	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 17:43	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 17:43	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 17:43	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 17:43	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 17:43	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 17:43	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 17:43	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 17:43	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 17:43	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 17:43	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 17:43	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 17:43	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 17:43	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 17:43	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 17:43	1

Client Sample ID: MW-37_24_03
Date Collected: 03/27/24 11:05
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*04/01/24 17:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/01/24 17:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*04/01/24 17:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**6.83**	**J B**	10.4	5.73	ug/L		04/03/24 10:21	04/04/24 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*79*		*45 - 129*	*04/03/24 10:21*	*04/04/24 12:45*	*1*
2-Fluorobiphenyl (Surr)	*69*		*39 - 118*	*04/03/24 10:21*	*04/04/24 12:45*	*1*
Terphenyl-d14 (Surr)	*37*		*12 - 144*	*04/03/24 10:21*	*04/04/24 12:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0394		0.0681	0.0394	ug/L		04/03/24 12:58	04/04/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*10 - 136*	*04/03/24 12:58*	*04/04/24 14:00*	*1*
Tetrachloro-m-xylene	*66*		*10 - 130*	*04/03/24 12:58*	*04/04/24 14:00*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0975		0.863	0.0975	ug/L		04/03/24 09:39	04/04/24 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*46*	*p*	*26 - 137*	*04/03/24 09:39*	*04/04/24 21:21*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 18:10	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 18:10	1
Barium	**0.0403**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 18:10	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 18:10	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 18:10	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:10	1
Cobalt	**0.000177**	**J**	0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 18:10	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 18:10	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 18:10	1
Nickel	<0.00190		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 18:10	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 18:10	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 18:10	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 18:10	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:10	1
Zinc	<0.00640	^+	0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 18:10	1
Tin	<0.00230		0.00500	0.00230	mg/L		04/02/24 09:00	04/08/24 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**1.38**	**J**	1.88	0.638	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-38_24_03
Date Collected: 03/27/24 10:45
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 18:06	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 18:06	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 18:06	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 18:06	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 18:06	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 18:06	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 18:06	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 18:06	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 18:06	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 18:06	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 18:06	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 18:06	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			04/01/24 18:06	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 18:06	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 18:06	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 18:06	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 18:06	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 18:06	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 18:06	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 18:06	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 18:06	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 18:06	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 18:06	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 18:06	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 18:06	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			04/01/24 18:06	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 18:06	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 18:06	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 18:06	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 18:06	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 18:06	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 18:06	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 18:06	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 18:06	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 18:06	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 18:06	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 18:06	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 18:06	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 18:06	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 18:06	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 18:06	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 18:06	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 18:06	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 18:06	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 18:06	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 18:06	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*04/01/24 18:06*	*1*

Client Sample ID: MW-38_24_03
Date Collected: 03/27/24 10:45
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/01/24 18:06*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/01/24 18:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.61		10.2	5.61	ug/L		04/03/24 10:21	04/04/24 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*101*		*45 - 129*	*04/03/24 10:21*	*04/04/24 13:11*	*1*
2-Fluorobiphenyl (Surr)	*87*		*39 - 118*	*04/03/24 10:21*	*04/04/24 13:11*	*1*
Terphenyl-d14 (Surr)	*43*		*12 - 144*	*04/03/24 10:21*	*04/04/24 13:11*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 18:12	1
Arsenic	**0.00107**	**J**	0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 18:12	1
Barium	**0.0459**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 18:12	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 18:12	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 18:12	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:12	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 18:12	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 18:12	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 18:12	1
Nickel	<0.00190		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 18:12	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 18:12	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 18:12	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 18:12	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:12	1
Zinc	<0.00640	^+	0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 18:12	1
Tin	<0.00230		0.00500	0.00230	mg/L		04/02/24 09:00	04/08/24 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<0.638		1.88	0.638	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-101A_24_03
Date Collected: 03/27/24 13:15
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 18:29	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 18:29	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 18:29	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 18:29	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 18:29	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 18:29	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 18:29	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 18:29	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 18:29	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 18:29	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 18:29	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 18:29	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			04/01/24 18:29	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			04/01/24 18:29	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 18:29	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 18:29	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 18:29	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 18:29	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 18:29	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 18:29	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 18:29	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 18:29	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 18:29	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 18:29	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 18:29	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 18:29	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			04/01/24 18:29	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 18:29	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 18:29	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 18:29	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 18:29	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 18:29	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 18:29	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 18:29	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 18:29	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 18:29	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 18:29	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 18:29	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 18:29	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 18:29	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 18:29	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 18:29	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 18:29	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 18:29	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 18:29	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 18:29	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 18:29	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 18:29	1

Client Sample ID: MW-101A_24_03

Date Collected: 03/27/24 13:15
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-10

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*04/01/24 18:29*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/01/24 18:29*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/01/24 18:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**7.03**	**J B**	10.6	5.85	ug/L		04/03/24 10:21	04/04/24 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*79*		*45 - 129*	*04/03/24 10:21*	*04/04/24 13:37*	*1*
2-Fluorobiphenyl (Surr)	*69*		*39 - 118*	*04/03/24 10:21*	*04/04/24 13:37*	*1*
Terphenyl-d14 (Surr)	*44*		*12 - 144*	*04/03/24 10:21*	*04/04/24 13:37*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0394		0.0681	0.0394	ug/L		04/03/24 12:58	04/04/24 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*64*		*10 - 136*	*04/03/24 12:58*	*04/04/24 14:13*	*1*
Tetrachloro-m-xylene	*70*		*10 - 130*	*04/03/24 12:58*	*04/04/24 14:13*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.104		0.918	0.104	ug/L		04/03/24 09:39	04/04/24 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	*63*		*26 - 137*	*04/03/24 09:39*	*04/04/24 21:43*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 18:15	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 18:15	1
Barium	**0.105**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 18:15	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 18:15	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 18:15	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:15	1
Cobalt	**0.000391**	**J**	0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 18:15	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 18:15	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 18:15	1
Nickel	**0.00201**	**J**	0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 18:15	1
Selenium	**0.00324**	**J**	0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 18:15	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 18:15	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 18:15	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:15	1
Zinc	<0.00640	^+	0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 18:15	1
Tin	<0.00230		0.00500	0.00230	mg/L		04/02/24 09:00	04/08/24 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**1.88**		1.88	0.638	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-101B_24_03
Date Collected: 03/27/24 14:25
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 18:51	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 18:51	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 18:51	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 18:51	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 18:51	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 18:51	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 18:51	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 18:51	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 18:51	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 18:51	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 18:51	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 18:51	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			04/01/24 18:51	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 18:51	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 18:51	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 18:51	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 18:51	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 18:51	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 18:51	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 18:51	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 18:51	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 18:51	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 18:51	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 18:51	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 18:51	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			04/01/24 18:51	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 18:51	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 18:51	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 18:51	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 18:51	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 18:51	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 18:51	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 18:51	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 18:51	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 18:51	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 18:51	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 18:51	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 18:51	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 18:51	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 18:51	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 18:51	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 18:51	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 18:51	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 18:51	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 18:51	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 18:51	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*73 - 130*		*04/01/24 18:51*	*1*

Client Sample ID: MW-101B_24_03
Date Collected: 03/27/24 14:25
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/01/24 18:51*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/01/24 18:51*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.85		10.6	5.85	ug/L		04/03/24 10:21	04/04/24 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*87*		*45 - 129*	*04/03/24 10:21*	*04/04/24 14:03*	*1*
2-Fluorobiphenyl (Surr)	*75*		*39 - 118*	*04/03/24 10:21*	*04/04/24 14:03*	*1*
Terphenyl-d14 (Surr)	*41*		*12 - 144*	*04/03/24 10:21*	*04/04/24 14:03*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 18:17	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 18:17	1
Barium	**0.125**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 18:17	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 18:17	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 18:17	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:17	1
Cobalt	**0.000359**	**J**	0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 18:17	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 18:17	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 18:17	1
Nickel	**0.00244**	**J**	0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 18:17	1
Selenium	**0.00140**	**J**	0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 18:17	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 18:17	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 18:17	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:17	1
Zinc	<0.00640	^+	0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 18:17	1
Tin	<0.00230		0.00500	0.00230	mg/L		04/02/24 09:00	04/08/24 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**0.750**	**J**	1.88	0.638	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-109B_24_03
Date Collected: 03/28/24 14:20
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 19:14	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 19:14	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 19:14	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 19:14	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 19:14	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 19:14	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 19:14	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 19:14	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 19:14	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 19:14	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 19:14	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 19:14	1
1,4-Dichlorobenzene	**1.79**		1.00	0.230	ug/L			04/01/24 19:14	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 19:14	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 19:14	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 19:14	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 19:14	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 19:14	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 19:14	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 19:14	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 19:14	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 19:14	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 19:14	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 19:14	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 19:14	1
Chlorobenzene	**8.20**		1.00	0.400	ug/L			04/01/24 19:14	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 19:14	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 19:14	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 19:14	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 19:14	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 19:14	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 19:14	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 19:14	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 19:14	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 19:14	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 19:14	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 19:14	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 19:14	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 19:14	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 19:14	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 19:14	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 19:14	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 19:14	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 19:14	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 19:14	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 19:14	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*04/01/24 19:14*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-109B_24_03

Date Collected: 03/28/24 14:20
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-12

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/01/24 19:14*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*04/01/24 19:14*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 18:22	1
Arsenic	**0.0196**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 18:22	1
Barium	**0.666**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 18:22	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 18:22	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 18:22	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:22	1
Cobalt	**0.0191**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 18:22	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 18:22	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 18:22	1
Nickel	**0.0378**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 18:22	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 18:22	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 18:22	1
Thallium	**0.00452**		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 18:22	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:22	1
Zinc	<0.00640	^+	0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**10.0**		2.50	0.850	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: FD-1_24_03
Date Collected: 03/28/24 00:00
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 19:37	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 19:37	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 19:37	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 19:37	1
1,1-Dichloroethane	**1.61**		1.00	0.220	ug/L			04/01/24 19:37	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 19:37	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 19:37	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 19:37	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 19:37	1
1,2-Dichlorobenzene	**1.96**		1.00	0.370	ug/L			04/01/24 19:37	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 19:37	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 19:37	1
1,4-Dichlorobenzene	**11.8**		1.00	0.230	ug/L			04/01/24 19:37	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 19:37	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 19:37	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 19:37	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 19:37	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 19:37	1
Benzene	**2.61**		0.500	0.220	ug/L			04/01/24 19:37	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 19:37	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 19:37	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 19:37	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 19:37	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 19:37	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 19:37	1
Chlorobenzene	**3.35**		1.00	0.400	ug/L			04/01/24 19:37	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 19:37	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 19:37	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 19:37	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 19:37	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 19:37	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 19:37	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 19:37	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 19:37	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 19:37	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 19:37	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 19:37	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 19:37	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 19:37	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 19:37	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 19:37	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 19:37	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 19:37	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 19:37	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 19:37	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 19:37	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*04/01/24 19:37*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: FD-1_24_03

Date Collected: 03/28/24 00:00
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-13

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/01/24 19:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/01/24 19:37*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 18:24	1
Arsenic	**0.0253**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 18:24	1
Barium	**0.718**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 18:24	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 18:24	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 18:24	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:24	1
Cobalt	**0.00128**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 18:24	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 18:24	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 18:24	1
Nickel	**0.0220**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 18:24	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 18:24	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 18:24	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 18:24	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:24	1
Zinc	<0.00640	^+	0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 18:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**70.0**		15.0	5.10	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: FD-2_24_03
Date Collected: 03/29/24 00:00
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 19:59	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 19:59	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 19:59	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 19:59	1
1,1-Dichloroethane	**2.06**		1.00	0.220	ug/L			04/01/24 19:59	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 19:59	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 19:59	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 19:59	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 19:59	1
1,2-Dichlorobenzene	**1.05**		1.00	0.370	ug/L			04/01/24 19:59	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 19:59	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 19:59	1
1,4-Dichlorobenzene	**4.04**		1.00	0.230	ug/L			04/01/24 19:59	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 19:59	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 19:59	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 19:59	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 19:59	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 19:59	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 19:59	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 19:59	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 19:59	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 19:59	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 19:59	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 19:59	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 19:59	1
Chlorobenzene	**1.83**		1.00	0.400	ug/L			04/01/24 19:59	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 19:59	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 19:59	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 19:59	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 19:59	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 19:59	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 19:59	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 19:59	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 19:59	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 19:59	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 19:59	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 19:59	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 19:59	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 19:59	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 19:59	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 19:59	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 19:59	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 19:59	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 19:59	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 19:59	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 19:59	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*04/01/24 19:59*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: FD-2_24_03
Date Collected: 03/29/24 00:00
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/01/24 19:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/01/24 19:59*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 18:26	1
Arsenic	**0.181**		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 18:26	1
Barium	**0.0649**		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 18:26	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 18:26	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 18:26	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:26	1
Cobalt	**0.00250**		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 18:26	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 18:26	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 18:26	1
Nickel	**0.0888**		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 18:26	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 18:26	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 18:26	1
Thallium	**0.000367**	**J**	0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 18:26	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:26	1
Zinc	**0.0605**		0.0200	0.00640	mg/L		04/02/24 09:00	04/09/24 23:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**35.0**		3.75	1.28	mg/L			04/02/24 09:25	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: FB-1_24_03
Date Collected: 03/28/24 10:05
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 14:17	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 14:17	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 14:17	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 14:17	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 14:17	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 14:17	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 14:17	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 14:17	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 14:17	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 14:17	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 14:17	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 14:17	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			04/01/24 14:17	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			04/01/24 14:17	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 14:17	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 14:17	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 14:17	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 14:17	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 14:17	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 14:17	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 14:17	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 14:17	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 14:17	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 14:17	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 14:17	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 14:17	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			04/01/24 14:17	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 14:17	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 14:17	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 14:17	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 14:17	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 14:17	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 14:17	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 14:17	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 14:17	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 14:17	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 14:17	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 14:17	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 14:17	1
Toluene	**0.496**	**J**	1.00	0.430	ug/L			04/01/24 14:17	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 14:17	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 14:17	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 14:17	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 14:17	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 14:17	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 14:17	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 14:17	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 14:17	1

Client Sample ID: FB-1_24_03
Date Collected: 03/28/24 10:05
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-15
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*04/01/24 14:17*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/01/24 14:17*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/01/24 14:17*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.73		10.4	5.73	ug/L		04/03/24 10:21	04/04/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*45 - 129*	*04/03/24 10:21*	*04/04/24 14:29*	*1*
2-Fluorobiphenyl (Surr)	*75*		*39 - 118*	*04/03/24 10:21*	*04/04/24 14:29*	*1*
Terphenyl-d14 (Surr)	*84*		*12 - 144*	*04/03/24 10:21*	*04/04/24 14:29*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0363		0.0627	0.0363	ug/L		04/03/24 12:58	04/04/24 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*10 - 136*	*04/03/24 12:58*	*04/04/24 14:26*	*1*
Tetrachloro-m-xylene	*78*		*10 - 130*	*04/03/24 12:58*	*04/04/24 14:26*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.102		0.907	0.102	ug/L		04/03/24 09:39	04/04/24 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*40*	*p*	*26 - 137*	*04/03/24 09:39*	*04/04/24 22:04*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 18:29	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 18:29	1
Barium	<0.000640		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 18:29	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 18:29	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 18:29	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:29	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 18:29	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 18:29	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 18:29	1
Nickel	<0.00190		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 18:29	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 18:29	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 18:29	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 18:29	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 18:29	1
Zinc	<0.00640	^+	0.0200	0.00640	mg/L		04/02/24 09:00	04/08/24 18:29	1
Tin	<0.00230		0.00500	0.00230	mg/L		04/02/24 09:00	04/08/24 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<0.638		1.88	0.638	mg/L			04/02/24 10:39	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: TB-1_24_03
Date Collected: 03/28/24 00:00
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 14:40	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 14:40	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 14:40	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 14:40	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 14:40	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 14:40	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 14:40	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 14:40	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 14:40	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 14:40	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 14:40	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 14:40	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			04/01/24 14:40	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			04/01/24 14:40	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 14:40	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 14:40	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 14:40	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 14:40	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 14:40	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 14:40	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 14:40	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 14:40	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 14:40	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 14:40	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 14:40	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 14:40	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			04/01/24 14:40	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 14:40	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 14:40	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 14:40	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 14:40	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 14:40	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 14:40	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 14:40	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 14:40	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 14:40	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 14:40	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 14:40	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 14:40	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 14:40	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 14:40	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 14:40	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 14:40	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 14:40	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 14:40	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 14:40	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 14:40	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 14:40	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: TB-1_24_03
Date Collected: 03/28/24 00:00
Date Received: 03/29/24 14:40

Lab Sample ID: 310-277805-16
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		04/01/24 14:40	1
Toluene-d8 (Surr)	100		80 - 120		04/01/24 14:40	1
4-Bromofluorobenzene (Surr)	102		80 - 120		04/01/24 14:40	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-277805-1	MW-12_24_03	106	99	103
310-277805-1 MS	MW-12_24_03	101	101	101
310-277805-1 MSD	MW-12_24_03	103	101	96
310-277805-2	MW-13_24_03	100	97	107
310-277805-3	MW-14_24_03	107	97	101
310-277805-4	MW-16_24_03	105	100	106
310-277805-5	MW-17_24_03	103	97	103
310-277805-6	MW-32_24_03	104	98	103
310-277805-7	MW-33_24_03	109	97	108
310-277805-8	MW-37_24_03	99	97	102
310-277805-9	MW-38_24_03	106	98	105
310-277805-10	MW-101A_24_03	104	99	106
310-277805-11	MW-101B_24_03	108	95	106
310-277805-12	MW-109B_24_03	106	97	104
310-277805-13	FD-1_24_03	105	97	106
310-277805-14	FD-2_24_03	106	98	103
310-277805-15	FB-1_24_03	102	98	105
310-277805-16	TB-1_24_03	101	100	102
LCS 310-417491/6	Lab Control Sample	94	101	104
LCS 310-417491/7	Lab Control Sample	102	100	105
MB 310-417491/5	Method Blank	104	99	102

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(45-129)	(39-118)	(12-144)
310-277805-5	MW-17_24_03	55	46	43
310-277805-6	MW-32_24_03	65	53	47
310-277805-7	MW-33_24_03	86	75	59
310-277805-8	MW-37_24_03	79	69	37
310-277805-9	MW-38_24_03	101	87	43
310-277805-10	MW-101A_24_03	79	69	44
310-277805-11	MW-101B_24_03	87	75	41
310-277805-15	FB-1_24_03	84	75	84
LCS 310-417725/2-A	Lab Control Sample	96	85	98
LCSD 310-417725/3-A	Lab Control Sample Dup	88	80	90
MB 310-417725/1-A	Method Blank	97	82	97

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-277805-1
Project/Site: CRLCSWA Site 1
SDG: 23C071.00

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(10-136)	(10-130)								
310-277805-1	MW-12_24_03	49	63								
310-277805-8	MW-37_24_03	67	66								
310-277805-10	MW-101A_24_03	64	70								
310-277805-15	FB-1_24_03	48	78								
LCS 310-417747/2-B	Lab Control Sample	92	53								
LCSD 310-417747/3-B	Lab Control Sample Dup	91	55								
MB 310-417747/1-B	Method Blank	63	58								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA2									
Lab Sample ID	Client Sample ID	(26-137)									
310-277805-5	MW-17_24_03	61									
310-277805-10	MW-101A_24_03	63									
LCS 680-831059/2-A	Lab Control Sample	61									
LCSD 680-831059/3-A	Lab Control Sample Dup	62									

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA1									
Lab Sample ID	Client Sample ID	(26-137)									
310-277805-2	MW-13_24_03	41 p									
310-277805-4	MW-16_24_03	38 p									
310-277805-6	MW-32_24_03	35 p									
310-277805-8	MW-37_24_03	46 p									
310-277805-15	FB-1_24_03	40 p									
MB 680-831059/1-A	Method Blank	12 S1- p									

Surrogate Legend

DCPAA = DCAA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-417491/5
Matrix: Water
Analysis Batch: 417491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			04/01/24 13:08	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			04/01/24 13:08	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			04/01/24 13:08	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			04/01/24 13:08	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			04/01/24 13:08	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			04/01/24 13:08	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			04/01/24 13:08	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			04/01/24 13:08	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			04/01/24 13:08	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			04/01/24 13:08	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			04/01/24 13:08	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			04/01/24 13:08	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			04/01/24 13:08	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			04/01/24 13:08	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			04/01/24 13:08	1
2-Hexanone	<2.00		10.0	2.00	ug/L			04/01/24 13:08	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			04/01/24 13:08	1
Acetone	<3.10		10.0	3.10	ug/L			04/01/24 13:08	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			04/01/24 13:08	1
Benzene	<0.220		0.500	0.220	ug/L			04/01/24 13:08	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			04/01/24 13:08	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			04/01/24 13:08	1
Bromoform	<0.780		5.00	0.780	ug/L			04/01/24 13:08	1
Bromomethane	<1.10		4.00	1.10	ug/L			04/01/24 13:08	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			04/01/24 13:08	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			04/01/24 13:08	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			04/01/24 13:08	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			04/01/24 13:08	1
Chloroethane	<0.790		4.00	0.790	ug/L			04/01/24 13:08	1
Chloroform	<1.30		3.00	1.30	ug/L			04/01/24 13:08	1
Chloromethane	<0.610		3.00	0.610	ug/L			04/01/24 13:08	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			04/01/24 13:08	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			04/01/24 13:08	1
Dibromomethane	<0.330		1.00	0.330	ug/L			04/01/24 13:08	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			04/01/24 13:08	1
Iodomethane	<7.00		10.0	7.00	ug/L			04/01/24 13:08	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			04/01/24 13:08	1
Styrene	<0.370		1.00	0.370	ug/L			04/01/24 13:08	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			04/01/24 13:08	1
Toluene	<0.430		1.00	0.430	ug/L			04/01/24 13:08	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			04/01/24 13:08	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			04/01/24 13:08	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			04/01/24 13:08	1
Trichloroethene	<0.430		1.00	0.430	ug/L			04/01/24 13:08	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			04/01/24 13:08	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			04/01/24 13:08	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			04/01/24 13:08	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			04/01/24 13:08	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-417491/5
Matrix: Water
Analysis Batch: 417491

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*04/01/24 13:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/01/24 13:08*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*04/01/24 13:08*	*1*

Lab Sample ID: LCS 310-417491/6
Matrix: Water
Analysis Batch: 417491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.52		ug/L		98	71 - 120
1,1,1-Trichloroethane	20.0	20.68		ug/L		103	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.78		ug/L		99	68 - 124
1,1,2-Trichloroethane	20.0	20.98		ug/L		105	73 - 123
1,1-Dichloroethane	20.0	19.02		ug/L		95	70 - 127
1,1-Dichloroethene	20.0	22.24		ug/L		111	63 - 132
1,2,3-Trichloropropane	20.0	17.73		ug/L		89	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	20.92		ug/L		105	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.12		ug/L		96	75 - 125
1,2-Dichlorobenzene	20.0	20.00		ug/L		100	74 - 120
1,2-Dichloroethane	20.0	18.20		ug/L		91	71 - 125
1,2-Dichloropropane	20.0	18.48		ug/L		92	73 - 124
1,4-Dichlorobenzene	20.0	20.76		ug/L		104	72 - 120
2-Butanone (MEK)	40.0	36.99		ug/L		92	50 - 150
2-Hexanone	40.0	41.11		ug/L		103	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	39.69		ug/L		99	60 - 139
Acetone	40.0	39.12		ug/L		98	50 - 150
Acrylonitrile	200	208.4		ug/L		104	50 - 150
Benzene	20.0	19.40		ug/L		97	72 - 124
Bromochloromethane	20.0	20.13		ug/L		101	73 - 130
Bromodichloromethane	20.0	20.16		ug/L		101	74 - 122
Bromoform	20.0	17.84		ug/L		89	61 - 122
Carbon disulfide	20.0	20.83		ug/L		104	59 - 135
Carbon tetrachloride	20.0	19.23		ug/L		96	67 - 132
Chlorobenzene	20.0	20.06		ug/L		100	76 - 120
Chlorodibromomethane	20.0	18.37		ug/L		92	71 - 121
Chloroform	20.0	18.50		ug/L		92	72 - 125
cis-1,2-Dichloroethene	20.0	19.37		ug/L		97	74 - 123
cis-1,3-Dichloropropene	20.0	19.84		ug/L		99	71 - 125
Dibromomethane	20.0	18.53		ug/L		93	74 - 125
Ethylbenzene	20.0	19.67		ug/L		98	74 - 122
Iodomethane	20.0	12.83		ug/L		64	10 - 150
Methylene Chloride	20.0	19.37		ug/L		97	50 - 150
Styrene	20.0	20.36		ug/L		102	74 - 121
Tetrachloroethene	20.0	20.81		ug/L		104	71 - 130
Toluene	20.0	20.82		ug/L		104	74 - 123
trans-1,2-Dichloroethene	20.0	20.25		ug/L		101	70 - 126
trans-1,3-Dichloropropene	20.0	19.52		ug/L		98	69 - 123
trans-1,4-Dichloro-2-butene	20.0	20.88		ug/L		104	50 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-417491/6
Matrix: Water
Analysis Batch: 417491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	20.0	19.20		ug/L		96	72 - 126
Vinyl acetate	40.0	39.83		ug/L		100	50 - 150
Xylenes, Total	40.0	40.32		ug/L		101	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*

Lab Sample ID: LCS 310-417491/7
Matrix: Water
Analysis Batch: 417491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	17.12		ug/L		86	23 - 150
Chloroethane	20.0	20.63		ug/L		103	54 - 136
Chloromethane	20.0	20.04		ug/L		100	38 - 150
Trichlorofluoromethane	20.0	22.54		ug/L		113	54 - 149
Vinyl chloride	20.0	20.43		ug/L		102	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*

Lab Sample ID: 310-277805-1 MS
Matrix: Water
Analysis Batch: 417491

Client Sample ID: MW-12_24_03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.380		20.0	16.41		ug/L		82	55 - 130
1,1,1-Trichloroethane	<0.190		20.0	17.74		ug/L		89	52 - 130
1,1,2,2-Tetrachloroethane	<0.470		20.0	16.89		ug/L		84	54 - 130
1,1,2-Trichloroethane	<0.450		20.0	18.26		ug/L		91	58 - 130
1,1-Dichloroethane	3.39		20.0	21.32		ug/L		90	49 - 130
1,1-Dichloroethene	<0.560		20.0	18.57		ug/L		93	37 - 132
1,2,3-Trichloropropane	<0.590		20.0	19.52		ug/L		98	49 - 130
1,2-Dibromo-3-Chloropropane	<1.20		20.0	16.41		ug/L		82	38 - 150
1,2-Dibromoethane (EDB)	<0.340		20.0	17.19		ug/L		86	60 - 130
1,2-Dichlorobenzene	0.623	J	20.0	18.27		ug/L		88	59 - 130
1,2-Dichloroethane	<0.390		20.0	17.70		ug/L		88	51 - 130
1,2-Dichloropropane	<0.270		20.0	16.19		ug/L		81	57 - 130
1,4-Dichlorobenzene	1.20		20.0	18.23		ug/L		85	57 - 130
2-Butanone (MEK)	<2.10		40.0	31.23		ug/L		78	38 - 150
2-Hexanone	<2.00		40.0	36.67		ug/L		92	46 - 140
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	34.26		ug/L		86	47 - 139
Acetone	<3.10		40.0	29.44		ug/L		74	31 - 150
Acrylonitrile	<2.20		200	180.6		ug/L		90	40 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-277805-1 MS
Matrix: Water
Analysis Batch: 417491

Client Sample ID: MW-12_24_03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.220		20.0	17.20		ug/L		86	46 - 130
Bromochloromethane	<0.540		20.0	19.16		ug/L		96	57 - 130
Bromodichloromethane	<0.390		20.0	17.44		ug/L		87	57 - 130
Bromoform	<0.780		20.0	15.02		ug/L		75	44 - 130
Carbon disulfide	<0.450		20.0	18.27		ug/L		91	38 - 135
Carbon tetrachloride	<0.650		20.0	16.72		ug/L		84	45 - 132
Chlorobenzene	<0.400		20.0	19.63		ug/L		98	59 - 130
Chlorodibromomethane	<0.750		20.0	16.65		ug/L		83	54 - 130
Chloroform	<1.30		20.0	16.55		ug/L		83	51 - 130
cis-1,2-Dichloroethene	4.87		20.0	22.52		ug/L		88	45 - 130
cis-1,3-Dichloropropene	<0.250		20.0	16.99		ug/L		85	53 - 130
Dibromomethane	<0.330		20.0	17.75		ug/L		89	59 - 130
Ethylbenzene	<0.310		20.0	17.11		ug/L		86	45 - 130
Iodomethane	<7.00		20.0	14.66		ug/L		73	10 - 150
Methylene Chloride	<1.70		20.0	17.65		ug/L		88	37 - 150
Styrene	<0.370		20.0	17.74		ug/L		89	47 - 130
Tetrachloroethene	<0.480		20.0	16.47		ug/L		82	47 - 130
Toluene	<0.430		20.0	17.97		ug/L		90	51 - 130
trans-1,2-Dichloroethene	<0.270		20.0	18.25		ug/L		91	48 - 130
trans-1,3-Dichloropropene	<0.560		20.0	16.86		ug/L		84	50 - 130
trans-1,4-Dichloro-2-butene	<1.10		20.0	19.19		ug/L		96	26 - 150
Trichloroethene	<0.430		20.0	17.28		ug/L		86	51 - 130
Vinyl acetate	<2.50		40.0	31.74		ug/L		79	29 - 150
Xylenes, Total	<0.400		40.0	35.54		ug/L		89	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: 310-277805-1 MSD
Matrix: Water
Analysis Batch: 417491

Client Sample ID: MW-12_24_03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		20.0	16.46		ug/L		82	55 - 130	0	20
1,1,1-Trichloroethane	<0.190		20.0	17.36		ug/L		87	52 - 130	2	20
1,1,2,2-Tetrachloroethane	<0.470		20.0	17.03		ug/L		85	54 - 130	1	20
1,1,2-Trichloroethane	<0.450		20.0	17.59		ug/L		88	58 - 130	4	20
1,1-Dichloroethane	3.39		20.0	20.75		ug/L		87	49 - 130	3	20
1,1-Dichloroethene	<0.560		20.0	16.20		ug/L		81	37 - 132	14	26
1,2,3-Trichloropropane	<0.590		20.0	15.57		ug/L		78	49 - 130	23	26
1,2-Dibromo-3-Chloropropane	<1.20		20.0	18.95		ug/L		95	38 - 150	14	20
1,2-Dibromoethane (EDB)	<0.340		20.0	16.91		ug/L		85	60 - 130	2	20
1,2-Dichlorobenzene	0.623	J	20.0	17.94		ug/L		87	59 - 130	2	20
1,2-Dichloroethane	<0.390		20.0	18.12		ug/L		91	51 - 130	2	20
1,2-Dichloropropane	<0.270		20.0	17.92		ug/L		90	57 - 130	10	20
1,4-Dichlorobenzene	1.20		20.0	18.34		ug/L		86	57 - 130	1	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-277805-1 MSD
Matrix: Water
Analysis Batch: 417491

Client Sample ID: MW-12_24_03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	<2.10		40.0	37.20		ug/L		93	38 - 150	17	20
2-Hexanone	<2.00		40.0	36.89		ug/L		92	46 - 140	1	20
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	34.87		ug/L		87	47 - 139	2	20
Acetone	<3.10		40.0	32.40		ug/L		81	31 - 150	10	29
Acrylonitrile	<2.20		200	182.2		ug/L		91	40 - 150	1	20
Benzene	<0.220		20.0	17.09		ug/L		85	46 - 130	1	20
Bromochloromethane	<0.540		20.0	16.24		ug/L		81	57 - 130	17	20
Bromodichloromethane	<0.390		20.0	17.12		ug/L		86	57 - 130	2	20
Bromoform	<0.780		20.0	15.61		ug/L		78	44 - 130	4	20
Carbon disulfide	<0.450		20.0	17.55		ug/L		88	38 - 135	4	30
Carbon tetrachloride	<0.650		20.0	16.38		ug/L		82	45 - 132	2	20
Chlorobenzene	<0.400		20.0	18.82		ug/L		94	59 - 130	4	20
Chlorodibromomethane	<0.750		20.0	14.59		ug/L		73	54 - 130	13	20
Chloroform	<1.30		20.0	16.83		ug/L		84	51 - 130	2	20
cis-1,2-Dichloroethene	4.87		20.0	20.63		ug/L		79	45 - 130	9	20
cis-1,3-Dichloropropene	<0.250		20.0	16.14		ug/L		81	53 - 130	5	20
Dibromomethane	<0.330		20.0	17.71		ug/L		89	59 - 130	0	20
Ethylbenzene	<0.310		20.0	17.15		ug/L		86	45 - 130	0	20
Iodomethane	<7.00		20.0	15.20		ug/L		76	10 - 150	4	35
Methylene Chloride	<1.70		20.0	18.67		ug/L		93	37 - 150	6	24
Styrene	<0.370		20.0	18.05		ug/L		90	47 - 130	2	20
Tetrachloroethene	<0.480		20.0	16.06		ug/L		80	47 - 130	3	20
Toluene	<0.430		20.0	17.41		ug/L		87	51 - 130	3	20
trans-1,2-Dichloroethene	<0.270		20.0	17.86		ug/L		89	48 - 130	2	22
trans-1,3-Dichloropropene	<0.560		20.0	17.24		ug/L		86	50 - 130	2	20
trans-1,4-Dichloro-2-butene	<1.10		20.0	19.67		ug/L		98	26 - 150	2	23
Trichloroethene	<0.430		20.0	15.74		ug/L		79	51 - 130	9	20
Vinyl acetate	<2.50		40.0	34.17		ug/L		85	29 - 150	7	23
Xylenes, Total	<0.400		40.0	34.90		ug/L		87	43 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-417725/1-A
Matrix: Water
Analysis Batch: 417812

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417725

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	7.026	J	10.0	5.50	ug/L		04/03/24 10:21	04/04/24 09:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*97*		*45 - 129*	*04/03/24 10:21*	*04/04/24 09:43*	*1*
2-Fluorobiphenyl (Surr)	*82*		*39 - 118*	*04/03/24 10:21*	*04/04/24 09:43*	*1*
Terphenyl-d14 (Surr)	*97*		*12 - 144*	*04/03/24 10:21*	*04/04/24 09:43*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-417725/2-A
Matrix: Water
Analysis Batch: 417812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417725

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bis(2-ethylhexyl) phthalate			100	91.46		ug/L		91	43 - 143		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*96*		*45 - 129*
2-Fluorobiphenyl (Surr)	*85*		*39 - 118*
Terphenyl-d14 (Surr)	*98*		*12 - 144*

Lab Sample ID: LCSD 310-417725/3-A
Matrix: Water
Analysis Batch: 417812

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 417725

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			100	82.25		ug/L		82	43 - 143	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*88*		*45 - 129*
2-Fluorobiphenyl (Surr)	*80*		*39 - 118*
Terphenyl-d14 (Surr)	*90*		*12 - 144*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-417747/1-B
Matrix: Water
Analysis Batch: 417824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0370		0.0640	0.0370	ug/L		04/03/24 12:58	04/04/24 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*10 - 136*	*04/03/24 12:58*	*04/04/24 12:38*	*1*
Tetrachloro-m-xylene	*58*		*10 - 130*	*04/03/24 12:58*	*04/04/24 12:38*	*1*

Lab Sample ID: LCS 310-417747/2-B
Matrix: Water
Analysis Batch: 417829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417747

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
beta-BHC			10.0	7.188		ug/L		72	37 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*10 - 136*
Tetrachloro-m-xylene	*53*		*10 - 130*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 310-417747/3-B
Matrix: Water
Analysis Batch: 417829

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 417747

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
beta-BHC			10.0	7.083		ug/L		71	37 - 136	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*10 - 136*
Tetrachloro-m-xylene	*55*		*10 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 680-831059/1-A
Matrix: Water
Analysis Batch: 831391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 831059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0960		0.850	0.0960	ug/L		04/03/24 09:39	04/04/24 17:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*12*	*S1- p*	*26 - 137*	*04/03/24 09:39*	*04/04/24 17:24*	*1*

Lab Sample ID: LCS 680-831059/2-A
Matrix: Water
Analysis Batch: 831391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 831059

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-TP			1.60	0.9887		ug/L		62	31 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*61*		*26 - 137*

Lab Sample ID: LCSD 680-831059/3-A
Matrix: Water
Analysis Batch: 831391

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 831059

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP			1.60	1.009		ug/L		63	31 - 144	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCAA	*62*		*26 - 137*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-418255/1-A
Matrix: Water
Analysis Batch: 418203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		04/02/24 09:00	04/08/24 17:21	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		04/02/24 09:00	04/08/24 17:21	1
Barium	<0.000640		0.00200	0.000640	mg/L		04/02/24 09:00	04/08/24 17:21	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-418255/1-A
Matrix: Water
Analysis Batch: 418203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.000330		0.00100	0.000330	mg/L		04/02/24 09:00	04/08/24 17:21	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		04/02/24 09:00	04/08/24 17:21	1
Chromium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:21	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		04/02/24 09:00	04/08/24 17:21	1
Copper	<0.00180		0.00500	0.00180	mg/L		04/02/24 09:00	04/08/24 17:21	1
Lead	<0.000240		0.000500	0.000240	mg/L		04/02/24 09:00	04/08/24 17:21	1
Nickel	<0.00190		0.00500	0.00190	mg/L		04/02/24 09:00	04/08/24 17:21	1
Selenium	<0.00140		0.00500	0.00140	mg/L		04/02/24 09:00	04/08/24 17:21	1
Silver	<0.000500		0.00100	0.000500	mg/L		04/02/24 09:00	04/08/24 17:21	1
Thallium	<0.000260		0.00100	0.000260	mg/L		04/02/24 09:00	04/08/24 17:21	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		04/02/24 09:00	04/08/24 17:21	1
Tin	<0.00230		0.00500	0.00230	mg/L		04/02/24 09:00	04/08/24 17:21	1

Lab Sample ID: MB 310-418255/1-A
Matrix: Water
Analysis Batch: 418312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.00640		0.0200	0.00640	mg/L		04/02/24 09:00	04/09/24 23:27	1

Lab Sample ID: LCS 310-418255/2-A
Matrix: Water
Analysis Batch: 418203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 418255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2164		mg/L		108	80 - 120
Arsenic	0.200	0.2071		mg/L		104	80 - 120
Barium	0.100	0.1090		mg/L		109	80 - 120
Beryllium	0.100	0.09762		mg/L		98	80 - 120
Cadmium	0.100	0.1062		mg/L		106	80 - 120
Chromium	0.100	0.1047		mg/L		105	80 - 120
Cobalt	0.100	0.1073		mg/L		107	80 - 120
Copper	0.200	0.2156		mg/L		108	80 - 120
Lead	0.200	0.2301		mg/L		115	80 - 120
Nickel	0.200	0.2173		mg/L		109	80 - 120
Selenium	0.400	0.3704		mg/L		93	80 - 120
Silver	0.100	0.1125		mg/L		112	80 - 120
Thallium	0.100	0.09331		mg/L		93	80 - 120
Vanadium	0.100	0.1024		mg/L		102	80 - 120
Zinc	0.200	0.1858		mg/L		93	80 - 120
Tin	0.200	0.1972		mg/L		99	80 - 120

Lab Sample ID: 310-277805-1 MS
Matrix: Water
Analysis Batch: 418203

Client Sample ID: MW-12_24_03
Prep Type: Total/NA
Prep Batch: 418255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00100		0.200	0.2190		mg/L		109	75 - 125
Arsenic	0.152		0.200	0.3645		mg/L		106	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-277805-1 MS
Matrix: Water
Analysis Batch: 418203

Client Sample ID: MW-12_24_03
Prep Type: Total/NA
Prep Batch: 418255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.388		0.100	0.4835		mg/L		96	75 - 125
Beryllium	<0.000330		0.100	0.1050		mg/L		105	75 - 125
Cadmium	<0.000100		0.100	0.1029		mg/L		103	75 - 125
Chromium	<0.00110		0.100	0.1049		mg/L		105	75 - 125
Cobalt	0.00435		0.100	0.1093		mg/L		105	75 - 125
Copper	<0.00180		0.200	0.2056		mg/L		103	75 - 125
Lead	<0.000240		0.200	0.2258		mg/L		113	75 - 125
Nickel	0.0760		0.200	0.2835		mg/L		104	75 - 125
Selenium	<0.00140		0.400	0.3770		mg/L		94	75 - 125
Silver	<0.000500		0.100	0.1031		mg/L		103	75 - 125
Thallium	0.00380		0.100	0.09764		mg/L		94	75 - 125
Vanadium	<0.00110		0.100	0.1057		mg/L		106	75 - 125
Tin	<0.00230		0.200	0.1943		mg/L		97	75 - 125

Lab Sample ID: 310-277805-1 MSD
Matrix: Water
Analysis Batch: 418203

Client Sample ID: MW-12_24_03
Prep Type: Total/NA
Prep Batch: 418255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00100		0.200	0.2157		mg/L		108	75 - 125	2	20
Arsenic	0.152		0.200	0.3596		mg/L		104	75 - 125	1	20
Barium	0.388		0.100	0.4937		mg/L		106	75 - 125	2	20
Beryllium	<0.000330		0.100	0.1062		mg/L		106	75 - 125	1	20
Cadmium	<0.000100		0.100	0.1020		mg/L		102	75 - 125	1	20
Chromium	<0.00110		0.100	0.1042		mg/L		104	75 - 125	1	20
Cobalt	0.00435		0.100	0.1084		mg/L		104	75 - 125	1	20
Copper	<0.00180		0.200	0.2036		mg/L		102	75 - 125	1	20
Lead	<0.000240		0.200	0.2247		mg/L		112	75 - 125	0	20
Nickel	0.0760		0.200	0.2807		mg/L		102	75 - 125	1	20
Selenium	<0.00140		0.400	0.3692		mg/L		92	75 - 125	2	20
Silver	<0.000500		0.100	0.1053		mg/L		105	75 - 125	2	20
Thallium	0.00380		0.100	0.09929		mg/L		95	75 - 125	2	20
Vanadium	<0.00110		0.100	0.1042		mg/L		104	75 - 125	1	20
Tin	<0.00230		0.200	0.1942		mg/L		97	75 - 125	0	20

Lab Sample ID: 310-277805-11 DU
Matrix: Water
Analysis Batch: 418203

Client Sample ID: MW-101B_24_03
Prep Type: Total/NA
Prep Batch: 418255

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00100		<0.00100		mg/L		NC	20
Arsenic	<0.000530		<0.000530		mg/L		NC	20
Barium	0.125		0.1254		mg/L		0.5	20
Beryllium	<0.000330		<0.000330		mg/L		NC	20
Cadmium	<0.000100		<0.000100		mg/L		NC	20
Chromium	<0.00110		<0.00110		mg/L		NC	20
Cobalt	0.000359	J	0.0003380	J	mg/L		6	20
Copper	<0.00180		<0.00180		mg/L		NC	20
Lead	<0.000240		<0.000240		mg/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-277805-11 DU
Matrix: Water
Analysis Batch: 418203

Client Sample ID: MW-101B_24_03
Prep Type: Total/NA
Prep Batch: 418255

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	0.00244	J	0.002642	J	mg/L		8	20
Selenium	0.00140	J	0.001729	J F5	mg/L		21	20
Silver	<0.000500		<0.000500		mg/L		NC	20
Thallium	<0.000260		<0.000260		mg/L		NC	20
Vanadium	<0.00110		<0.00110		mg/L		NC	20
Zinc	<0.00640	^+	<0.00640	^+	mg/L		NC	20
Tin	<0.00230		<0.00230		mg/L		NC	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-417567/1
Matrix: Water
Analysis Batch: 417567

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.70		5.00	1.70	mg/L			04/02/24 09:25	1

Lab Sample ID: LCS 310-417567/2
Matrix: Water
Analysis Batch: 417567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	98.00		mg/L		98	75 - 116

Lab Sample ID: 310-277805-3 DU
Matrix: Water
Analysis Batch: 417567

Client Sample ID: MW-14_24_03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	77.0		78.00		mg/L		1	35

Lab Sample ID: MB 310-417592/1
Matrix: Water
Analysis Batch: 417592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.70		5.00	1.70	mg/L			04/02/24 10:39	1

Lab Sample ID: LCS 310-417592/2
Matrix: Water
Analysis Batch: 417592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	105.0		mg/L		105	75 - 116

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: 310-277817-A-1 DU
Matrix: Water
Analysis Batch: 417592

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	208			222.0		mg/L				7	35

GC/MS VOA

Analysis Batch: 417491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-1	MW-12_24_03	Total/NA	Water	8260D	
310-277805-2	MW-13_24_03	Total/NA	Water	8260D	
310-277805-3	MW-14_24_03	Total/NA	Water	8260D	
310-277805-4	MW-16_24_03	Total/NA	Water	8260D	
310-277805-5	MW-17_24_03	Total/NA	Water	8260D	
310-277805-6	MW-32_24_03	Total/NA	Water	8260D	
310-277805-7	MW-33_24_03	Total/NA	Water	8260D	
310-277805-8	MW-37_24_03	Total/NA	Water	8260D	
310-277805-9	MW-38_24_03	Total/NA	Water	8260D	
310-277805-10	MW-101A_24_03	Total/NA	Water	8260D	
310-277805-11	MW-101B_24_03	Total/NA	Water	8260D	
310-277805-12	MW-109B_24_03	Total/NA	Water	8260D	
310-277805-13	FD-1_24_03	Total/NA	Water	8260D	
310-277805-14	FD-2_24_03	Total/NA	Water	8260D	
310-277805-15	FB-1_24_03	Total/NA	Water	8260D	
310-277805-16	TB-1_24_03	Total/NA	Water	8260D	
MB 310-417491/5	Method Blank	Total/NA	Water	8260D	
LCS 310-417491/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-417491/7	Lab Control Sample	Total/NA	Water	8260D	
310-277805-1 MS	MW-12_24_03	Total/NA	Water	8260D	
310-277805-1 MSD	MW-12_24_03	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 417725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-5	MW-17_24_03	Total/NA	Water	3510C	
310-277805-6	MW-32_24_03	Total/NA	Water	3510C	
310-277805-7	MW-33_24_03	Total/NA	Water	3510C	
310-277805-8	MW-37_24_03	Total/NA	Water	3510C	
310-277805-9	MW-38_24_03	Total/NA	Water	3510C	
310-277805-10	MW-101A_24_03	Total/NA	Water	3510C	
310-277805-11	MW-101B_24_03	Total/NA	Water	3510C	
310-277805-15	FB-1_24_03	Total/NA	Water	3510C	
MB 310-417725/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-417725/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-417725/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 417812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-5	MW-17_24_03	Total/NA	Water	8270E	417725
310-277805-6	MW-32_24_03	Total/NA	Water	8270E	417725
310-277805-7	MW-33_24_03	Total/NA	Water	8270E	417725
310-277805-8	MW-37_24_03	Total/NA	Water	8270E	417725
310-277805-9	MW-38_24_03	Total/NA	Water	8270E	417725
310-277805-10	MW-101A_24_03	Total/NA	Water	8270E	417725
310-277805-11	MW-101B_24_03	Total/NA	Water	8270E	417725
310-277805-15	FB-1_24_03	Total/NA	Water	8270E	417725
MB 310-417725/1-A	Method Blank	Total/NA	Water	8270E	417725
LCS 310-417725/2-A	Lab Control Sample	Total/NA	Water	8270E	417725
LCSD 310-417725/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	417725

GC Semi VOA

Prep Batch: 417747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-1	MW-12_24_03	Total/NA	Water	3510C	
310-277805-8	MW-37_24_03	Total/NA	Water	3510C	
310-277805-10	MW-101A_24_03	Total/NA	Water	3510C	
310-277805-15	FB-1_24_03	Total/NA	Water	3510C	
MB 310-417747/1-B	Method Blank	Total/NA	Water	3510C	
LCS 310-417747/2-B	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-417747/3-B	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 417824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-1	MW-12_24_03	Total/NA	Water	8081B	417747
310-277805-8	MW-37_24_03	Total/NA	Water	8081B	417747
310-277805-10	MW-101A_24_03	Total/NA	Water	8081B	417747
310-277805-15	FB-1_24_03	Total/NA	Water	8081B	417747
MB 310-417747/1-B	Method Blank	Total/NA	Water	8081B	417747

Analysis Batch: 417829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-417747/2-B	Lab Control Sample	Total/NA	Water	8081B	417747
LCSD 310-417747/3-B	Lab Control Sample Dup	Total/NA	Water	8081B	417747

Prep Batch: 831059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-2	MW-13_24_03	Total/NA	Water	8151A	
310-277805-4	MW-16_24_03	Total/NA	Water	8151A	
310-277805-5	MW-17_24_03	Total/NA	Water	8151A	
310-277805-6	MW-32_24_03	Total/NA	Water	8151A	
310-277805-8	MW-37_24_03	Total/NA	Water	8151A	
310-277805-10	MW-101A_24_03	Total/NA	Water	8151A	
310-277805-15	FB-1_24_03	Total/NA	Water	8151A	
MB 680-831059/1-A	Method Blank	Total/NA	Water	8151A	
LCS 680-831059/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 680-831059/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 831391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-2	MW-13_24_03	Total/NA	Water	8151A	831059
310-277805-4	MW-16_24_03	Total/NA	Water	8151A	831059
310-277805-5	MW-17_24_03	Total/NA	Water	8151A	831059
310-277805-6	MW-32_24_03	Total/NA	Water	8151A	831059
310-277805-8	MW-37_24_03	Total/NA	Water	8151A	831059
310-277805-10	MW-101A_24_03	Total/NA	Water	8151A	831059
310-277805-15	FB-1_24_03	Total/NA	Water	8151A	831059
MB 680-831059/1-A	Method Blank	Total/NA	Water	8151A	831059
LCS 680-831059/2-A	Lab Control Sample	Total/NA	Water	8151A	831059
LCSD 680-831059/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	831059

Metals

Analysis Batch: 418203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-1	MW-12_24_03	Total/NA	Water	6020B	418255
310-277805-2	MW-13_24_03	Total/NA	Water	6020B	418255
310-277805-3	MW-14_24_03	Total/NA	Water	6020B	418255
310-277805-4	MW-16_24_03	Total/NA	Water	6020B	418255
310-277805-5	MW-17_24_03	Total/NA	Water	6020B	418255
310-277805-6	MW-32_24_03	Total/NA	Water	6020B	418255
310-277805-7	MW-33_24_03	Total/NA	Water	6020B	418255
310-277805-8	MW-37_24_03	Total/NA	Water	6020B	418255
310-277805-9	MW-38_24_03	Total/NA	Water	6020B	418255
310-277805-10	MW-101A_24_03	Total/NA	Water	6020B	418255
310-277805-11	MW-101B_24_03	Total/NA	Water	6020B	418255
310-277805-12	MW-109B_24_03	Total/NA	Water	6020B	418255
310-277805-13	FD-1_24_03	Total/NA	Water	6020B	418255
310-277805-14	FD-2_24_03	Total/NA	Water	6020B	418255
310-277805-15	FB-1_24_03	Total/NA	Water	6020B	418255
MB 310-418255/1-A	Method Blank	Total/NA	Water	6020B	418255
LCS 310-418255/2-A	Lab Control Sample	Total/NA	Water	6020B	418255
310-277805-1 MS	MW-12_24_03	Total/NA	Water	6020B	418255
310-277805-1 MSD	MW-12_24_03	Total/NA	Water	6020B	418255
310-277805-11 DU	MW-101B_24_03	Total/NA	Water	6020B	418255

Prep Batch: 418255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-1	MW-12_24_03	Total/NA	Water	3005A	
310-277805-2	MW-13_24_03	Total/NA	Water	3005A	
310-277805-3	MW-14_24_03	Total/NA	Water	3005A	
310-277805-4	MW-16_24_03	Total/NA	Water	3005A	
310-277805-5	MW-17_24_03	Total/NA	Water	3005A	
310-277805-6	MW-32_24_03	Total/NA	Water	3005A	
310-277805-7	MW-33_24_03	Total/NA	Water	3005A	
310-277805-8	MW-37_24_03	Total/NA	Water	3005A	
310-277805-9	MW-38_24_03	Total/NA	Water	3005A	
310-277805-10	MW-101A_24_03	Total/NA	Water	3005A	
310-277805-11	MW-101B_24_03	Total/NA	Water	3005A	
310-277805-12	MW-109B_24_03	Total/NA	Water	3005A	
310-277805-13	FD-1_24_03	Total/NA	Water	3005A	
310-277805-14	FD-2_24_03	Total/NA	Water	3005A	
310-277805-15	FB-1_24_03	Total/NA	Water	3005A	
MB 310-418255/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-418255/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-277805-1 MS	MW-12_24_03	Total/NA	Water	3005A	
310-277805-1 MSD	MW-12_24_03	Total/NA	Water	3005A	
310-277805-11 DU	MW-101B_24_03	Total/NA	Water	3005A	

Analysis Batch: 418312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-14	FD-2_24_03	Total/NA	Water	6020B	418255
MB 310-418255/1-A	Method Blank	Total/NA	Water	6020B	418255

General Chemistry

Analysis Batch: 417567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-1	MW-12_24_03	Total/NA	Water	I-3765-85	
310-277805-2	MW-13_24_03	Total/NA	Water	I-3765-85	
310-277805-3	MW-14_24_03	Total/NA	Water	I-3765-85	
310-277805-4	MW-16_24_03	Total/NA	Water	I-3765-85	
310-277805-5	MW-17_24_03	Total/NA	Water	I-3765-85	
310-277805-6	MW-32_24_03	Total/NA	Water	I-3765-85	
310-277805-7	MW-33_24_03	Total/NA	Water	I-3765-85	
310-277805-8	MW-37_24_03	Total/NA	Water	I-3765-85	
310-277805-9	MW-38_24_03	Total/NA	Water	I-3765-85	
310-277805-10	MW-101A_24_03	Total/NA	Water	I-3765-85	
310-277805-11	MW-101B_24_03	Total/NA	Water	I-3765-85	
310-277805-12	MW-109B_24_03	Total/NA	Water	I-3765-85	
310-277805-13	FD-1_24_03	Total/NA	Water	I-3765-85	
310-277805-14	FD-2_24_03	Total/NA	Water	I-3765-85	
MB 310-417567/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-417567/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-277805-3 DU	MW-14_24_03	Total/NA	Water	I-3765-85	

Analysis Batch: 417592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-277805-15	FB-1_24_03	Total/NA	Water	I-3765-85	
MB 310-417592/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-417592/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-277817-A-1 DU	Duplicate	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Client Sample ID: MW-12_24_03

Lab Sample ID: 310-277805-1

Date Collected: 03/28/24 11:15
Matrix: Water
Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 15:02
Total/NA	Prep	3510C			417747	D2YP	EET CF	04/03/24 12:58
Total/NA	Analysis	8081B		1	417824	BW2O	EET CF	04/04/24 13:47
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 17:35
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-13_24_03

Lab Sample ID: 310-277805-2

Date Collected: 03/28/24 10:30
Matrix: Water
Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 15:26
Total/NA	Prep	8151A			831059	KF	EET SAV	04/03/24 09:39
Total/NA	Analysis	8151A		1	831391	RKJ	EET SAV	04/04/24 19:55
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 17:47
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-14_24_03

Lab Sample ID: 310-277805-3

Date Collected: 03/28/24 09:35
Matrix: Water
Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 15:48
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 17:49
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-16_24_03

Lab Sample ID: 310-277805-4

Date Collected: 03/29/24 10:10
Matrix: Water
Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 16:11
Total/NA	Prep	8151A			831059	KF	EET SAV	04/03/24 09:39
Total/NA	Analysis	8151A		1	831391	RKJ	EET SAV	04/04/24 20:16
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 17:51
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-17_24_03

Lab Sample ID: 310-277805-5

Date Collected: 03/29/24 09:15

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 16:34
Total/NA	Prep	3510C			417725	JT8P	EET CF	04/03/24 10:21
Total/NA	Analysis	8270E		1	417812	L0FS	EET CF	04/04/24 11:27
Total/NA	Prep	8151A			831059	KF	EET SAV	04/03/24 09:39
Total/NA	Analysis	8151A		1	831391	RKJ	EET SAV	04/04/24 20:38
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 17:54
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-32_24_03

Lab Sample ID: 310-277805-6

Date Collected: 03/28/24 13:25

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 16:57
Total/NA	Prep	3510C			417725	JT8P	EET CF	04/03/24 10:21
Total/NA	Analysis	8270E		1	417812	L0FS	EET CF	04/04/24 11:52
Total/NA	Prep	8151A			831059	KF	EET SAV	04/03/24 09:39
Total/NA	Analysis	8151A		1	831391	RKJ	EET SAV	04/04/24 21:00
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 17:56
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-33_24_03

Lab Sample ID: 310-277805-7

Date Collected: 03/28/24 12:20

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 17:20
Total/NA	Prep	3510C			417725	JT8P	EET CF	04/03/24 10:21
Total/NA	Analysis	8270E		1	417812	L0FS	EET CF	04/04/24 12:19
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 18:08
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-37_24_03

Lab Sample ID: 310-277805-8

Date Collected: 03/27/24 11:05

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 17:43
Total/NA	Prep	3510C			417725	JT8P	EET CF	04/03/24 10:21
Total/NA	Analysis	8270E		1	417812	L0FS	EET CF	04/04/24 12:45
Total/NA	Prep	3510C			417747	D2YP	EET CF	04/03/24 12:58
Total/NA	Analysis	8081B		1	417824	BW2O	EET CF	04/04/24 14:00

Client Sample ID: MW-37_24_03

Lab Sample ID: 310-277805-8

Date Collected: 03/27/24 11:05

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			831059	KF	EET SAV	04/03/24 09:39
Total/NA	Analysis	8151A		1	831391	RKJ	EET SAV	04/04/24 21:21
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 18:10
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-38_24_03

Lab Sample ID: 310-277805-9

Date Collected: 03/27/24 10:45

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 18:06
Total/NA	Prep	3510C			417725	JT8P	EET CF	04/03/24 10:21
Total/NA	Analysis	8270E		1	417812	L0FS	EET CF	04/04/24 13:11
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 18:12
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-101A_24_03

Lab Sample ID: 310-277805-10

Date Collected: 03/27/24 13:15

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 18:29
Total/NA	Prep	3510C			417725	JT8P	EET CF	04/03/24 10:21
Total/NA	Analysis	8270E		1	417812	L0FS	EET CF	04/04/24 13:37
Total/NA	Prep	3510C			417747	D2YP	EET CF	04/03/24 12:58
Total/NA	Analysis	8081B		1	417824	BW2O	EET CF	04/04/24 14:13
Total/NA	Prep	8151A			831059	KF	EET SAV	04/03/24 09:39
Total/NA	Analysis	8151A		1	831391	RKJ	EET SAV	04/04/24 21:43
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 18:15
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-101B_24_03

Lab Sample ID: 310-277805-11

Date Collected: 03/27/24 14:25

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 18:51
Total/NA	Prep	3510C			417725	JT8P	EET CF	04/03/24 10:21
Total/NA	Analysis	8270E		1	417812	L0FS	EET CF	04/04/24 14:03
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 18:17
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: MW-109B_24_03

Lab Sample ID: 310-277805-12

Date Collected: 03/28/24 14:20

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 19:14
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 18:22
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: FD-1_24_03

Lab Sample ID: 310-277805-13

Date Collected: 03/28/24 00:00

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 19:37
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 18:24
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: FD-2_24_03

Lab Sample ID: 310-277805-14

Date Collected: 03/29/24 00:00

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 19:59
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 18:26
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418312	NFT2	EET CF	04/09/24 23:29
Total/NA	Analysis	I-3765-85		1	417567	DGU1	EET CF	04/02/24 09:25

Client Sample ID: FB-1_24_03

Lab Sample ID: 310-277805-15

Date Collected: 03/28/24 10:05

Matrix: Water

Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 14:17
Total/NA	Prep	3510C			417725	JT8P	EET CF	04/03/24 10:21
Total/NA	Analysis	8270E		1	417812	L0FS	EET CF	04/04/24 14:29
Total/NA	Prep	3510C			417747	D2YP	EET CF	04/03/24 12:58
Total/NA	Analysis	8081B		1	417824	BW2O	EET CF	04/04/24 14:26
Total/NA	Prep	8151A			831059	KF	EET SAV	04/03/24 09:39
Total/NA	Analysis	8151A		1	831391	RKJ	EET SAV	04/04/24 22:04
Total/NA	Prep	3005A			418255	DHM5	EET CF	04/02/24 09:00
Total/NA	Analysis	6020B		1	418203	NFT2	EET CF	04/08/24 18:29
Total/NA	Analysis	I-3765-85		1	417592	DGU1	EET CF	04/02/24 10:39

Lab Chronicle

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-277805-1
Project/Site: CRLCSWA Site 1
SDG: 23C071.00

Client Sample ID: TB-1_24_03
Lab Sample ID: 310-277805-16
Date Collected: 03/28/24 00:00
Matrix: Water
Date Received: 03/29/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	417491	FE5V	EET CF	04/01/24 14:40

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA Site 1

Job ID: 310-277805-1
SDG: 23C071.00

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8151A	Herbicides (GC)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

eurofins | Environment Testing America

310-277805 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE: IA | Project:

Receipt Information

Date/Time Received: DATE: 3-29-24 | TIME: 1440 | Received By: MV

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 1 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? All 3 TB sets ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

MW-16 MW-17

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 2.2 | Corrected Temp (°C): 2.2

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE: IA | Project:

Receipt Information

Date/Time Received: DATE: 3-29-24 | TIME: 1440 | Received By: MV

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 2 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.9 | Corrected Temp (°C): 1.9

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE: IA | Project:

Receipt Information

Date/Time Received: DATE: 3-29-24 | TIME: 1440 | Received By: M.V

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 3 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.0 | Corrected Temp (°C): 1.0

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE: IA | Project:

Receipt Information

Date/Time Received: DATE: 3-29-24 | TIME: 1440 | Received By: MV

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 4 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.4 | Corrected Temp (°C): 0.4

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE: IA | Project:

Receipt Information

Date/Time Received: DATE: 3-29-24 | TIME: 1440 | Received By: MV

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 5 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.1 | Corrected Temp (°C): 0.1

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 1 of 2 **COC Number:** 1-3865545471-030524-483057

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 23C071 00
Phone: (319) 365-9565	P O.		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members: Tyler Merritt
hannah.dubbs@foth.com	Task #: 23C071_24_03	State Location: Iowa	Randy Gavin

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: N	N	N	N	N	N	N	Filtered (Y/N)	REMARKS / Lab ID
															IA Appendix I List	TSS	1,3-Dichlorobenzene	Bis(2-ethylhexyl)phthalate	2,4,5-TP	beta-BHC	Tin		
1	MW-12_24_03	MW-12	WG	G	3/28/2024	1115	7	3		1	3				X	X	X			X	X		
2	MW-13_24_03	MW-13	WG	G	3/28/2024	1030	7	3		1	3				X	X	X		X				
3	MW-14_24_03	MW-14	WG	G	3/28/2024	0935	5	1		1	3				X	X							
4	MW-16_24_03	MW-16	WG	G	3/29/2024	1010	7	3		1	3				X	X	X		X				
5	MW-17_24_03	MW-17	WG	G	3/29/2024	0915	9	5		1	3				X	X		X	X				
6	MW-32_24_03	MW-32	WG	G	3/28/2024	1325	9	5		1	3				X	X		X	X		X		
7	MW-33_24_03	MW-33	WG	G	3/28/2024	1220	7	3		1	3				X	X		X			X		
8	MW-37_24_03	MW-37	WG	G	3/27/2024	1105	11	7		1	3				X	X	X	X	X	X	X		
9	MW-38_24_03	MW-38	WG	G	3/27/2024	1045	7	3		1	3				X	X		X			X		
10	MW-101A_24_03	MW-101A	WG	G	3/27/2024	1315	11	7		1	3				X	X	X	X	X	X	X		
11	MW-101B_24_03	MW-101B	WG	G	3/27/2024	1425	7	3		1	3				X	X		X			X		
12	MW-109B_24_03	MW-109B	WG	G	3/28/2024	1420	5	1		1	3				X	X							

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					Tyler Merritt / O A. Technical Services	3/29/2024	11:30	MC	3-29-24	1990

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Merritt

SIGNATURE of SAMPLER: Tyler Merritt DATE Signed: 3/29/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 2 of 2 **COC Number:** 1-3865545471-030524-483057

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 23C071 00
Phone: (319) 365-9565	P O.		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members: Tyler Merritt
hannah.dubbs@foth.com	Task #: 23C071_24_03	State Location: Iowa	Randy Gavin

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	Bis(2-ethylhexyl)phthalate	2,4,5-TP	beta-BHC	Tin	IA Appendix I VOCs Only	Filtered (Y/N)	REMARKS / Lab ID
															N	N	N	N	N	N	N	N	←	
13	FD-1_24_03		WG	G	3/28/2024	----	5	1		1	3				X	X								
14	FD-2_24_03		WG	G	3/29/2024	----	5	1		1	3				X	X								
15	FB-1_24_03	FB-1	WQ	G	3/28/2024	1005	11	7		1	3				X	X	X	X	X	X	X			
16	TB-1_24_03	Trip Blank	WQ	G	----	----	2				2						X					X		
17	TB-2_24_03	Trip Blank	WQ	G													X					X		Do Not Analyze
18	TB-3_24_03	Trip Blank	WQ	G													X					X		Do Not Analyze
19																								
20																								
21																								
22																								
23																								
24																								

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					Tyler Merritt / O. A. Technical Services	3/29/2024	11:30	ML	3-29-24	1440

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Do Not Analyze TB-2_24_03 &

TB-3_24_03

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Merritt

SIGNATURE of SAMPLER: Tyler Merritt DATE Signed: 3/29/2024

4/10/2024

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Calhoun, Conner M	Carrier Tracking No(s):	COC No: 310-70876.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Conner.Calhoun@et.eurofinsus.com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): State Program - Iowa		Job #: 310-277805-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 4/11/2024			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: CRLCSWA Site 1	Project #: 31009776			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8161A/8161A_AP_LVI (MOD) TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-13_24_03 (310-277805-2)	3/28/24	10:30 Central		Water			X	2	
MW-16_24_03 (310-277805-4)	3/29/24	10:10 Central		Water			X	2	
MW-17_24_03 (310-277805-5)	3/29/24	09:15 Central		Water			X	2	
MW-32_24_03 (310-277805-6)	3/28/24	13:25 Central		Water			X	2	
MW-37_24_03 (310-277805-8)	3/27/24	11:05 Central		Water			X	2	
MW-101A_24_03 (310-277805-10)	3/27/24	13:15 Central		Water			X	2	
FB-1_24_03 (310-277805-15)	3/28/24	10:05 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/24 1300			4.22.24 1009	TN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.1/5.1 5.1/5.1

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-277805-1
SDG Number: 23C071.00

Login Number: 277805
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-277805-1
SDG Number: 23C071.00

Login Number: 277805
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins Savannah
List Creation: 04/02/24 05:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Data Validation Report

Project Name:	CRLCSWA Site 1 – Cedar Rapids, IA (23C071.00)
Task Name:	23C071_24_03
Data Set Description:	Spring 2024 Groundwater Event
Laboratory(s):	Eurofins – Cedar Falls, IA and Savannah, GA
Laboratory Sample Delivery Group (SDG) ID(s):	310-277805-1
Sample Collection Dates:	3/27/2024 – 3/29/2024
Sample Analysis Dates:	4/1/2024 – 4/9/2024
Sample Matrices:	Groundwater
Sample IDs Reviewed:	See Table 1
Verification and Validation Stage, 100% data:	☐ 1 ☒ 2A ☐ 2B ☐ 3 ☐ 4
Verified and Validated By:	Hannah Dubbs, Project Environmental Scientist 5/15/2024

The analytical data were validated to verify that laboratory quality assurance and quality control (QA/QC) procedures were documented and to evaluate the overall quality of the data reported. Analytical reports include 12 investigative groundwater samples collected via low-flow or no-purge sampling techniques at the Cedar Rapids Linn County Solid Waste Agency (CRLCSWA) Site 1 from March 27 to March 29, 2024; samples are listed in Table 1. The data were collected in accordance with the *Hydrologic Monitoring System Plan* (HRG, 2006), Iowa Department of Natural Resources (IDNR) Sanitary Disposal Closure Permit Number 57-SDP-03-75C (including Amendments), and 567 Iowa Administrative Code (IAC) 113.10.

Validation Summary

Stage 2A data validation was performed on 100% of the data from these SDGs, with review tasks and items of note documented in the summary table below.

Validation Task and Description	Review Notes	Action
Chain of Custody (COC) and Sample Receipt Form Confirm relinquish & receipt signatures. Confirm parameters and analytical methods match COC and Hydrologic Monitoring System Plan (HMSP).	All appropriate relinquish and receipt signatures were present. Parameters and analytical methods analyzed match the COC and current sampling program. Trip blanks TB-2_24_03 and TB-3_24_03 were provided by the lab but were not analyzed since only one shipment of volatile samples occurred and TB-1_23_03 was utilized as the trip blank for that shipment. The COC notes indicated not to perform analysis on TB-2_2_03 and TB-3_24_03.	Not applicable
Case Narrative Review for items noted by the laboratory that may impact the validation process.	The quality control issues noted in the case narratives were reviewed and found acceptable. Issues either were addressed in the comments below, had no impact on investigative samples, or were corrected/qualified by the laboratory. No additional actions are required. Note: continuing calibration verification (CCV) evaluation is not part of Stage 2A validation.	Not applicable

Validation Task and Description	Review Notes	Action
Sample Condition Upon Receipt (SCUR) Confirm samples in acceptable condition and no discrepancies noted. Confirm preservation meets method requirements.	Samples were received by Eurofins – Cedar Falls, IA in acceptable conditions. In addition, the 2,4,5-TP herbicide sample shipment from Eurofins – Cedar Falls, IA to Eurofins – Savannah, GA were received in acceptable conditions.	Not applicable
Methods Requested Confirm methods match project requirements and lab provided all methods ordered.	The methods ordered and analyzed were performed in accordance with the project requirements. Methods include United States Environmental Protection Agency (USEPA) 8260D Volatile Organic Compounds (VOCs), USEPA 8270E Semivolatile Organic Compounds (SVOCs), USEPA 8151A Herbicides, USEPA 8081B Organochlorine Pesticides, USEPA 6020B Total Metals, and United States Geological Survey (USGS) I-3765-85 Total Suspended Solids.	Not applicable
Analytes Requested Confirm analytes ordered match project requirements and lab provided all analytes ordered.	The analytes requested were analyzed in accordance with the project requirements. The laboratory provided all analytes ordered.	Not applicable
Holding Times Confirm laboratory performed extractions and analyses within method-required holding times.	Eurofins performed analysis within the method-required holding times with the exception of beta-BHC in MW-37_24_03. Analysis for pesticides per USEPA Method 8081B is required to be extracted within 7 days of sampling and analyzed within 40 days of extraction. MW-37_24_03 was extracted outside the 7-day holding time, but analyzed within the 40-day holding time. In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020a), when pesticide samples are extracted outside the 7-day hold time and analyzed outside or within the 40-day holding time, detected pesticides are qualified J and non-detects are rejected (qualified R). Professional judgment was utilized not to qualify the non-detect pesticide result in MW-37_24_03 since the extraction hold time for beta-BHC was only slightly exceeded (i.e., one hour and fifty-eight minutes). Resampling is not recommended since MW-37 is a background monitoring well and background monitoring for beta-BHC is not required for compliance with the project requirements.	No qualifier assigned
Blanks Confirm no detections in laboratory method blanks, field blanks, and trip blanks.	Table 3 presents analytes detected in the method, field, and trip blanks. No detections were found in the trip blank. Qualifiers are assigned in Table 9. Bis(2-ethylhexyl)phthalate was detected in the method blank (MB 310-417725/1-A) at a concentration of 7.026 J micrograms per liter (ug/L). In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020a) for SVOCs, when the blank contamination concentration is J-flagged, associated non-detect sample results are not qualified and	Qualifiers assigned

Validation Task and Description	Review Notes	Action
Blanks Continued	associated J-flagged sample results are assigned a U qualifier and reported at the practical quantitation limit (PQL). Toluene was detected in the field blank (FB-1_23_03) at a concentration of 0.496 J ug/L. In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020a) for VOCs, when the blank contamination concentration is J-flagged, associated non-detect sample results are not qualified.	No qualifiers assigned
Surrogates or Deuterated Monitoring Compounds For *organic analyses only*, confirm surrogates analyzed and surrogate recovery within QC limits.	Table 4 is intended to present the surrogate recoveries that were outside the control limits. Surrogate recoveries were within control limits for this SDG.	Not applicable
Matrix Spike/Matrix Spike Duplicates (MS/MSD) Confirm MS/MSDs analyzed at frequency specified by project requirements and MS/MSD percent recovery within lab specified limits. Confirm, for Organic analytes, MSD relative percent difference (RPD) within limits. For inorganic analytes, lab replicate RPD within limits.	MS/MSD quality control samples are not required for this project. As a result, no MS/MSD samples were collected or submitted for analysis. Where analyzed and reported by the laboratory, MS/MSD results associated with the samples in 310-277805-1 are reviewed under Stage 2A validation guidelines. Table 5 is intended to present MS/MSD recoveries and RPDs that were outside the control limits. MS/MSD recovered and RPDs were within control limits for this SDG.	Not applicable
Laboratory Control Sample/Laboratory Control Sample Duplicates (LCS/LCSDs) Confirm LCS analyzed and LCS/LCSD recovery and RPD within lab specified limits.	LCS/LCSD quality control samples are not required for this project. Where analyzed and reported by the laboratory, LCS/LCSD results associated with method batches in 310-277805-1 are reviewed under Stage 2A validation guidelines. Table 6 is intended to present the LCS/LCSD recoveries and RPDs that were outside the control limits. LCS/LCSD recoveries were within control limits and LCS/LCSD RPDs were below control limits for this SDG.	Not applicable
Laboratory Duplicates Confirm lab duplicates analyzed and RPD within lab specified limits.	Laboratory duplicate quality control samples are not required for this project. Where analyzed and reported by the laboratory, laboratory duplicate results associated with the samples in 310-277805-1 are reviewed under Stage 2A validation guidelines. Table 7 presents the lab duplicate sample RPDs that were outside the RPD limits. The laboratory duplicate RPD for selenium associated with MW-101B_24_04 was above the upper acceptance limit. In accordance with the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA, 2020b) for inductively coupled plasma mass spectrometry (ICP-MS) metals, when the laboratory	No qualifiers assigned

Validation Task and Description	Review Notes	Action
Laboratory Duplicates Continued	duplicate RPD is above the upper acceptance limit, the investigative sample result or duplicate result is less than (<) 5X the PQL, and the absolute difference between the investigative sample result and duplicate is less than or equal (≤) to the PQL, no qualification is required.	See above
Field Duplicates Confirm field duplicates collected at required frequency and field duplicate RPD within acceptable limits.	Field duplicate samples were collected at a 1 per 10 frequency in accordance with the project requirements. Table 8 contains the precision evaluation of the parent/field duplicate samples. The RPDs between the investigative and field duplicate samples were within the duplicate sample validation criteria.	Not applicable

Abbreviations:
< = less than
≤ = less than or equal to
CCV = continuing calibration verification
COC = chain of custody
HMSP = Hydrologic Monitoring System Plan
ICP-MS = inductively coupled plasma mass spectrometry
LCS = laboratory control sample
LCSD = laboratory control sample duplicate
MS = matrix spike
MSD = matrix spike duplicate
PQL = Practical Quantitation Limit
QA = quality assurance
QC = quality control
RPD = relative percent difference
SCUR = sample condition upon receipt
SDG = sample delivery group
SVOC = semivolatile organic compound
ug/L = microgram per liter
USEPA = United States Environmental Protection Agency
USGS = United States Geological Survey
VOC = volatile organic compound

Overall Assessment of Data

Item	Acceptable		Comments
	Yes	No	
1. Method Criteria	X		Samples were collected, preserved, shipped/delivered, and analyzed within the method protocols.
2. Precision	X		Field precision was evaluated through investigative and field duplicate RPDs. The RPDs between the investigative and field duplicate samples were within the duplicate sample validation criteria. Laboratory precision was evaluated through MS/MSD, LCS/LCSD, and laboratory duplicate RPDs. Where analyzed and reported by the laboratory, MS/MSD and LCS/LCSD RPDs were within control limits. With the exception identified below, laboratory duplicate RPDs were within control limits. As listed in Table 7, a laboratory duplicate RPD exceedance was identified for selenium associated with MW-101B_24_03. No qualifiers were assigned since the investigative sample result or duplicate result is <5X the PQL, and the absolute difference between the investigative sample result and duplicate is ≤ PQL.
3. Accuracy	X		Accuracy was evaluated through surrogate, MS/MSD, and LCS/LCSD recovery. The percent recoveries for surrogate samples were within control limits. Where analyzed and reported by the laboratory, MS/MSD and LCS/LCSD percent recoveries and RPDs were within control limits.
4. Representativeness	X		Sampling was conducted in accordance with the sample collection procedures described in the approved HMSP, approved HMSP revisions, and SOPs.
5. Comparability	X		Collection techniques, measurement procedures, methods, and reporting were equivalent to currently approved procedures and are comparable to historical data.
6. Completeness	X		Valid analytical results exceeded 90%.
7. Suitability for Intended Use	X		No evidence of gross contamination or significant issues with the method criteria, precision, accuracy, representativeness, comparability, or completeness were identified.

Overall, the data reported are of good quality and the results for the QA/QC measurements that were used by the laboratories during the analysis of the samples were generally acceptable. Some sample results required qualification during data validation because method-specific QA/QC criteria were not met; results may be qualified for more than one reason. Qualified data are usable (unless qualified as rejected [R]), represent data of good quality and reasonable confidence, and have an acceptable degree of uncertainty (i.e., may be less precise or less accurate than unqualified data). Table 2 provides a definition of the qualifiers that may be assigned by the validator and/or retained from the laboratory. A summary of the validation qualifiers is provided below.

- No results were qualified as estimated (assigned as J qualifiers), biased low (assigned as J- qualifiers), biased high (assigned as J+ qualifiers), non-detect with the reporting limit an estimated value (assigned UJ, UJ+, or UJ- qualifiers), presumptive evidence of presence of an analyte (assigned as N or NJ qualifiers), or not usable and rejected (assigned as R qualifier).
- Five results (0.49%) were qualified as non-detect at a concentration less than the reporting limit (assigned as U).

- 100% of the reported data is usable for project data quality objectives.

Attachment 1

Tables

Table 1
Sample IDs Reviewed

Project Sample ID	Analyzed Lab Sample ID	Project Sample ID Matches Lab Client Sample ID	Lab Sample Date/Time Match COC/Logbook	Parameters and Analytical Methods Match COC	Within Hold Times	Sample Type
MW-12_24_03	310-277805-1	Yes	Yes	Yes	Yes	Normal
MW-13_24_03	310-277805-2	Yes	Yes	Yes	Yes	Normal
MW-14_24_03	310-277805-3	Yes	Yes	Yes	Yes	Normal
MW-16_24_03	310-277805-4	Yes	Yes	Yes	Yes	Normal
MW-17_24_03	310-277805-5	Yes	Yes	Yes	Yes	Normal
MW-32_24_03	310-277805-6	Yes	Yes	Yes	Yes	Normal
MW-33_24_03	310-277805-7	Yes	Yes	Yes	Yes	Normal
MW-37_24_03	310-277805-8	Yes	Yes	Yes	**No**	Normal
MW-38_24_03	310-277805-9	Yes	Yes	Yes	Yes	Normal
MW-101A_24_03	310-277805-10	Yes	Yes	Yes	Yes	Normal
MW-101B_24_03	310-277805-11	Yes	Yes	Yes	Yes	Normal
MW-109B_24_03	310-277805-12	Yes	Yes	Yes	Yes	Normal
FD-1_24_03	310-277805-13	Yes	Yes	Yes	Yes	FD
FD-2_24_03	310-277805-14	Yes	Yes	Yes	Yes	FD
FB-1_24_03	310-277805-15	Yes	Yes	Yes	Yes	FB
TB-1_24_03	310-277805-16	Yes	Yes	Yes	Yes	TB

Notes:
FB = field blank
FD = field duplicate
TB = trip blank

Table 2
Explanation of Qualifiers

Qualifier	Explanation
U	The analyte was analyzed for and was not detected above the numerical quantitation limit.
J	The analyte was analyzed for and was positively identified, but the analytical result (i.e., quantitation) is an estimated value. In some cases it is recognized that the estimated value is biased high (J+) suggesting the actual value is lower than estimated; or biased low (J-) suggesting the actual value is higher than estimated.
UJ	The analyte was analyzed for and was not detected above the reporting limit, but the reporting limit is an estimated value.
R	The analyte was analyzed for but may or may not be present and/or quantifiable due to quality control issues. The analytical result is not usable and should be rejected.
N	The analysis indicates presumptive evidence of the presence of the analyte.
NJ	The analysis indicates presumptive evidence of the presence of the analyte, but the numerical value is an estimated quantity.

Notes:
Results qualified as "J" or "UJ" are of acceptable data quality and may be used quantitatively per United States Environmental Protection Agency guidelines.

Table 3
Method, Field, and Trip Blank Exceedances

Lab Report	Blank Type	Lab Sample ID	Analysis Batch	Prep Batch	Parameter	Result	Units	Lab Qualifier	MDL	PQL	Associated Samples
310-277805-1	Method	MB 310-417725/1-A	417812	417725	Bis(2-ethylhexyl) phthalate	7.026	ug/L	J	5.50	10.0	MW-17_24_03; MW-32_24_03; MW-33_24_03; MW-37_24_03; MW-38_24_03; MW-101A_24_03; MW-101B_24_03; FB-1_24_03
310-277805-1	Field	FB-1_24_03	417491	N/A	Toluene	0.496	ug/L	J	0.430	1.00	Investigative and FD samples in 310-277805-1

Notes:
FB = field blank
FD = field duplicate
MDL = minimum detection limit
N/A = not applicable
PQL = practical quantitation limit
ug/L = micrograms per liter

Table 4
Surrogate Recovery Exceedances

Lab Sample ID	Parent Sample	Parameter	Surrogate % Recovery	% Recovery Limits
Surrogate recoveries were within control limits for this SDG.				

Notes:
% = percent

Table 5
Matrix Spike - Matrix Spike Duplicate Exceedances

Lab Sample ID	Parent Sample	Parameter	MS % Recovery	MSD % Recovery	% Recovery Limits	RPD	RPD Limit
MS/MSD recoveries and RPDs were within control limits for this SDG.							

Notes:
% = percent
MS = matrix spike
MSD = matrix spike duplicate
RPD = relative percent difference

Table 6
Laboratory Control Sample and Laboratory Control Sample Duplicate Exceedances

Lab Sample ID	Associated SDG Batch	Parameter	LCS % Recovery	LCSD % Recovery	% Recovery Limits	RPD	RPD Limit
LCS/LCSD recoveries and RPDs were within control limits for this SDG.							

Notes:
% = percent
LCS = laboratory control sample
LSCD = laboratory control sample duplicate
RPD = relative percent difference
SDG = sample delivery group

Table 7
Laboratory Duplicate Sample Exceedances

Lab Sample ID	Client Sample ID	Parameter	RPD	RPD Limit
310-27785-11 DU	MW-101B_24_03	Selenium	21	20

Notes:
RPD = relative percent difference

Table 8
Relative Percent Difference (RPD) Analysis for Field Duplicate Samples
Appendix I Constituents & TSS

RPD = $\dfrac{\text{absolute value (a - b)}}{\text{(a + b)/2}} \times 100\%$

Acceptance Criteria*: 35%

* Unless otherwise noted in project planning documents, the acceptance criteria for field duplicates RPD is as follows:
- For analytes with concentrations greater than 5x (2x for soil matrices) the reporting limit, the RPD should be within 35% for water matrices (50% for soil matrices).
- For analytes with either or both concentrations less than 5x (2x for soil matrices) the reporting limit (indicated below by "low-level"), the absolute difference between the sample and field duplicate should not exceed 5x the reporting limit.

Duplicate Result Analysis:

Parameter	Unit	Parent	Duplicate Sample	RPD	Acceptable?
		MW-14_24_03	**FD-1_24_03**		
1,1-Dichloroethane	ug/L	< 0.220	1.61	low-level	Yes
1,2-Dichlorobenzene	ug/L	1.96	1.96	low-level	Yes
1,4-Dichlorobenzene	ug/L	12.1	11.8	2.5%	Yes
Benzene	ug/L	2.55	2.61	2.3%	Yes
Chlorobenzene	ug/L	3.20	3.35	low-level	Yes
Arsenic	mg/L	0.0253	0.0253	0.0%	Yes
Barium	mg/L	0.687	0.718	4.4%	Yes
Cobalt	mg/L	0.00126	0.0013	low-level	Yes
Nickel	mg/L	0.0217	0.0220	low-level	Yes
Total Suspended Solids	mg/L	77.0	70.0	low-level	Yes
		MW-16_24_03	**FD-2_24_03**		
1,1-Dichloroethane	ug/L	< 0.220	2.06	low-level	Yes
1,2-Dichlorobenzene	ug/L	1.13	1.05	low-level	Yes
1,4-Dichlorobenzene	ug/L	4.60	4.04	low-level	Yes
Chlorobenzene	ug/L	2.12	1.83	low-level	Yes
Arsenic	mg/L	0.183	0.181	1.1%	Yes
Barium	mg/L	0.0651	0.0649	0.3%	Yes
Cobalt	mg/L	0.00254	0.00250	1.6%	Yes
Nickel	mg/L	0.0898	0.0888	1.1%	Yes
Thallium	mg/L	J 0.000386	J 0.000367	low-level	Yes
Zinc	mg/L	0.0594	0.0605	low-level	Yes
Total Suspended Solids	mg/L	38.5	35.0	9.5%	Yes

Table 9
Qualified Results from Data Validation

Sample ID	Lab Sample ID	Method	Parameter	Result	Lab Qualifier	Units	Qualified Result	Validator Qualifier	Explanation
MW-17_24_03	310-277805-5	USEPA 8270E	bis(2-ethylhexyl)phthalate	6.65	J	ug/L	<10.0	U	MB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.
MW-32_24_03	310-277805-6	USEPA 8270E	bis(2-ethylhexyl)phthalate	6.66	J	ug/L	<10.2	U	MB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.
MW-33_24_03	310-277805-7	USEPA 8270E	bis(2-ethylhexyl)phthalate	6.53	J	ug/L	<10.0	U	MB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.
MW-37_24_03	310-277805-8	USEPA 8270E	bis(2-ethylhexyl)phthalate	6.83	J	ug/L	<10.4	U	MB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.
MW-101A_24_03	310-277805-10	USEPA 8270E	bis(2-ethylhexyl)phthalate	7.03	J	ug/L	<10.6	U	MB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.

Notes:
This table only lists validator qualified data. Not all laboratory qualified data are listed; only the laboratory qualified data that was validator qualified are included.
> = greater than
< = less than
MB = method blank
MDL = minimum detection limit
PQL = practical quantitation limit
ug/L = micrograms per liter
USEPA = United States Environmental Protection Agency

Attachment 2

References

References

Howard R. Green Company (HRG), 2006. *Landfill Permit Application, Cedar Rapids/Linn County Solid Waste Agency, Waste Management Site 1, Appendix 4: Hydrologic Monitoring System Plan (HMSP).* September.

United States Environmental Protection Agency (USEPA, 2020a). *National Functional Guidelines for Organic Superfund Methods Data Review.* EPA-540-R-20-005. Office of Superfund Remediation and Technology Innovation, Washington, D.C. Revised November 2020.

USEPA, 2020b. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* EPA-542-R-20-006. Office of Superfund Remediation and Technology Innovation, Washington, D.C. Revised November 2020.

August 2024 Sampling Event

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-1	Weather:	Mostly Cloudy, 76°F, SE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	9	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	736.84
Top of screen (ft. MSL):	711.84	Materials:	PVC	Top of Casing elevation (ft. MSL):	739.51
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	32.87	33.01	33.08
Water elevation (ft. MSL):	706.64	706.50	706.43

3 Well Volumes (gal): 7.24 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	47.67	48.00	0.33

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	696.51	Flow Rate (mL/min):	200	Volume removed (gal):	1.4
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
AW-1_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:57	14:59	15:02
Temp (°C)	17.64	17.12	16.85
Sp. Cond (umhos/cm)	1799.4	1795.9	1794.7
pH	5.27	5.27	5.27
DO (mg/l)	0.11	0.10	0.09
ORP (mV)	-85.1	-84.9	-84.3
Turbidity (NTU)	16.50	16.70	16.80

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-1	Weather:	Mostly Cloudy, 76°F, SE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at AW-1 in Fall 2024.

*Very slight color in sample.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-2	Weather:	Partly Cloudy, 77°F, E wind @ 0-5 mph, 30.1" Hg
Date:	8/12/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	9	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	788.60
Top of screen (ft. MSL):	710.60	Materials:	PVC	Top of Casing elevation (ft. MSL):	788.18
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	77.50	77.47	77.65
Water elevation (ft. MSL):	710.68	710.71	710.53

3 Well Volumes (gal): 9.82 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	97.58	97.50	0.08

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	696.18	Flow Rate (mL/min):	200	Volume removed (gal):	1.4
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
AW-2_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:15	14:19	14:22
Temp (°C)	18.11	18.12	17.96
Sp. Cond (umhos/cm)	978.69	979.22	976.90
pH	6.09	6.06	6.00
DO (mg/l)	0.51	0.62	0.70
ORP (mV)	-114.3	-115.4	-114.7
Turbidity (NTU)	4.73	3.58	3.87

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-2	Weather:	Partly Cloudy, 77°F, E wind @ 0-5 mph, 30.1" Hg
Date:	8/12/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at AW-2 in Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: AW-3 | Weather: Cloudy, 75°F, SE wind @ 5-10 mph, 30.1" Hg
Date: 8/13/2024 | Personnel: O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 799.70
Top of screen (ft. MSL): 711.70 | Materials: PVC | Top of Casing elevation (ft. MSL): 799.31
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	90.49	90.45	90.76
Water elevation (ft. MSL):	708.82	708.86	708.55

3 Well Volumes (gal): 8.37 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	107.61	107.90	0.29

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 694.31 | Flow Rate (mL/min): 150 | Volume removed (gal): 1.6 | Volume sampled (L): 2.37
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
AW-3_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8081B - delta-BHC	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	13:48	13:52	13:57
Temp (°C)	18.48	18.47	18.21
Sp. Cond (umhos/cm)	691.05	689.51	689.04
pH	5.52	5.53	5.54
DO (mg/l)	0.20	0.18	0.17
ORP (mV)	-122.6	-127.2	-131.5
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-3	Weather:	Cloudy, 75°F, SE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at AW-3 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-4	Weather:	Cloudy, 75°F, SE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	9	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	723.44
Top of screen (ft. MSL):	712.44	Materials:	PVC	Top of Casing elevation (ft. MSL):	725.76
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	22.08	22.51	23.62
Water elevation (ft. MSL):	703.68	703.25	702.14

3 Well Volumes (gal): 5.50 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	33.32	33.10	0.22

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: Geotech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	697.76	Flow Rate (mL/min):	175	Volume removed (gal):	0.6
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	Yes, slight*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
AW-4_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	16:15	16:17	16:19
Temp (°C)	18.62	18.42	18.43
Sp. Cond (umhos/cm)	1751.2	1762.3	1767.7
pH	6.04	6.05	6.03
DO (mg/l)	0.61	0.55	0.54
ORP (mV)	-36.9	-36.9	-35.3
Turbidity (NTU)	0.71	0.68	0.36

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-4	Weather:	Cloudy, 75°F, SE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at AW-4 in Fall 2024.

*Slight yellow color in sample.

Collected field blank (FB-1_24_08) at 16:20.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-5	Weather:	Partly Cloudy, 77°F, NE wind @ 10-15 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	9	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	718.94
Top of screen (ft. MSL):	711.44	Materials:	PVC	Top of Casing elevation (ft. MSL):	721.33
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	17.28	18.17	18.79
Water elevation (ft. MSL):	704.05	703.16	702.54

3 Well Volumes (gal): 6.17 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	29.89	30.25	0.36

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: Geotech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	696.33	Flow Rate (mL/min):	250	Volume removed (gal):	0.9
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	3.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
AW-5_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:17	14:19	14:21
Temp (°C)	17.43	17.65	17.74
Sp. Cond (umhos/cm)	2469.6	2409.2	2409.2
pH	5.70	5.70	5.72
DO (mg/l)	0.24	0.22	0.20
ORP (mV)	-18.7	-16.9	-15.3
Turbidity (NTU)	54.10	53.36	56.76

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-5	Weather:	Partly Cloudy, 77°F, NE wind @ 10-15 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at AW-5 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-6	Weather:	Partly Cloudy, 80°F, NE wind 10-15 mph, 30.1" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	9	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	718.94
Top of screen (ft. MSL):	651.44	Materials:	PVC	Top of Casing elevation (ft. MSL):	721.13
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	18.33	19.01	19.02
Water elevation (ft. MSL):	702.80	702.12	702.11

3 Well Volumes (gal): 30.01 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	79.69	79.50	0.19

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	646.13	Flow Rate (mL/min):	200	Volume removed (gal):	0.6
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	3.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
AW-6_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	15:27	15:29	15:32
Temp (°C)	18.19	17.90	18.03
Sp. Cond (umhos/cm)	2534.8	2547.1	2598.9
pH	5.53	5.54	5.53
DO (mg/l)	0.28	0.24	0.22
ORP (mV)	39.4	44.2	48.4
Turbidity (NTU)	0.41	0.28	0.15

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	AW-6	Weather:	Partly Cloudy, 80°F, NE wind 10-15 mph, 30.1" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at AW-6 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	CRL-9	Weather:	Partly Cloudy, 77°F, SSE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	734.10
Top of screen (ft. MSL):	672.89	Materials:	PVC	Top of Casing elevation (ft. MSL):	736.59
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	31.44	31.69	31.71
Water elevation (ft. MSL):	705.15	704.90	704.88

3 Well Volumes (gal): 20.67 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	73.70	73.65	0.05

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	668.59	Flow Rate (mL/min):	150	Volume removed (gal):	0.7
Well dry? (Y/N):	No	Odor? (Y/N):	Yes*	Volume sampled (L):	1.87
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
CRL-9_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	16:13	16:17	16:21
Temp (°C)	17.44	16.70	16.81
Sp. Cond (umhos/cm)	6481.7	6443.2	6430.4
pH	5.47	5.48	5.48
DO (mg/l)	0.38	0.24	0.22
ORP (mV)	-109.9	-112.8	-115.2
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	CRL-9	Weather:	Partly Cloudy, 77°F, SSE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at CRL-9 in Fall 2024.

*Black suspended solids, yellow color, and an odor in sample.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-11	Weather:	Partly Cloudy, 74°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	742.00
Top of screen (ft. MSL):	678.44	Materials:	PVC	Top of Casing elevation (ft. MSL):	745.62
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	38.23	38.69	39.65
Water elevation (ft. MSL):	707.39	706.93	705.97

3 Well Volumes (gal): 16.60 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	72.18	72.60	0.42

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	680.62	Flow Rate (mL/min):	200	Volume removed (gal):	1.0
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-11_24_08	EPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	EPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	EPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:24	14:27	14:29
Temp (°C)	16.54	16.53	16.65
Sp. Cond (umhos/cm)	1699.3	1725.1	1736.4
pH	5.74	5.74	5.71
DO (mg/l)	0.20	0.18	0.16
ORP (mV)	-24.3	-21.0	-16.8
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-11	Weather:	Partly Cloudy, 74°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-11 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-12	Weather:	Partly Cloudy, 74°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	742.11
Top of screen (ft. MSL):	708.84	Materials:	PVC	Top of Casing elevation (ft. MSL):	745.37
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	37.85	38.31	38.34
Water elevation (ft. MSL):	707.52	707.06	707.03

3 Well Volumes (gal): 4.24 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	46.53	46.80	0.27

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	702.37	Flow Rate (mL/min):	200	Volume removed (gal):	1.1
Well dry? (Y/N):	No	Odor? (Y/N):	Yes	Volume sampled (L):	1.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-12_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8081B - beta-BHC	(2) Amber Glass 250 mL - Unpreserved	No
	EPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	13:48	13:50	13:53
Temp (°C)	17.45	17.47	17.42
Sp. Cond (umhos/cm)	4010.2	4006.0	4011.4
pH	5.44	5.36	5.35
DO (mg/l)	0.13	0.12	0.11
ORP (mV)	-76.8	-76.6	-77.9
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-12	Weather:	Partly Cloudy, 74°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments:

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-13	Weather:	Cloudy, 72°F, S wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	737.34
Top of screen (ft. MSL):	714.16	Materials:	PVC	Top of Casing elevation (ft. MSL):	740.99
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	32.58	33.00	33.67
Water elevation (ft. MSL):	708.41	707.99	707.32

3 Well Volumes (gal): 4.52 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	41.83	42.15	0.32

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	700.99	Flow Rate (mL/min):	200	Volume removed (gal):	0.5
Well dry? (Y/N):	No	Odor? (Y/N):	Yes*	Volume sampled (L):	3.37
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-13_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	10:35	10:37	10:40
Temp (°C)	18.19	18.04	18.04
Sp. Cond (umhos/cm)	2992.0	2977.8	2971.9
pH	6.08	6.05	6.03
DO (mg/l)	0.15	0.12	0.10
ORP (mV)	-128.5	-133.1	-136.6
Turbidity (NTU)	3.24	1.47	0.85

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-13	Weather:	Cloudy, 72°F, S wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: *Slight color, odor, and effervescence and suspended solids in sample.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-14	Weather:	Cloudy, 73°F, S wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	737.42
Top of screen (ft. MSL):	679.13	Materials:	PVC	Top of Casing elevation (ft. MSL):	740.93
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	33.14	33.35	35.87
Water elevation (ft. MSL):	707.79	707.58	705.06

3 Well Volumes (gal): 16.46 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	66.80	67.15	0.35

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	678.93	Flow Rate (mL/min):	150	Volume removed (gal):	1.6
Well dry? (Y/N):	No	Odor? (Y/N):	Yes, slight	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-14_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	11:45	11:49	11:53
Temp (°C)	18.38	18.21	18.39
Sp. Cond (umhos/cm)	2646.9	2683.3	2716.9
pH	5.92	5.94	5.92
DO (mg/l)	0.10	0.10	0.09
ORP (mV)	-120.1	-119.5	-119.6
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-14	Weather:	Cloudy, 73°F, S wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments:

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-15	Weather:	Cloudy, 72°F, ESE wind @ 15-25 mph, 30.1" Hg
Date:	8/14/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	735.19
Top of screen (ft. MSL):	673.59	Materials:	PVC	Top of Casing elevation (ft. MSL):	737.99
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	30.30	30.78	31.80
Water elevation (ft. MSL):	707.69	707.21	706.19

3 Well Volumes (gal): 19.12 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	69.40	69.65	0.25

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	672.99	Flow Rate (mL/min):	200	Volume removed (gal):	1.3
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-15_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	11:32	11:35	11:38
Temp (°C)	18.27	18.20	18.19
Sp. Cond (umhos/cm)	2342.3	2384.5	2410.2
pH	6.14	6.12	6.12
DO (mg/l)	0.23	0.21	0.20
ORP (mV)	-18.4	-17.8	-17.4
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-15	Weather:	Cloudy, 72°F, ESE wind @ 15-25 mph, 30.1" Hg
Date:	8/14/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-15 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-16	Weather:	Partly Cloudy, 74°F, SE wind @ 15-25 mph, 30.1" Hg
Date:	8/14/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	734.81
Top of screen (ft. MSL):	711.67	Materials:	PVC	Top of Casing elevation (ft. MSL):	737.92
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	30.38	30.89	31.38
Water elevation (ft. MSL):	707.54	707.03	706.54

3 Well Volumes (gal): 5.32 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	41.25	41.50	0.25

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	699.92	Flow Rate (mL/min):	200	Volume removed (gal):	0.8
Well dry? (Y/N):	No	Odor? (Y/N):	Yes*	Volume sampled (L):	3.37
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-16_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	12:13	12:16	12:18
Temp (°C)	16.25	16.15	16.09
Sp. Cond (umhos/cm)	2295.9	2297.8	2297.3
pH	6.22	6.18	6.15
DO (mg/l)	0.09	0.08	0.08
ORP (mV)	-93.4	-95.5	-96.9
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-16	Weather:	Partly Cloudy, 74°F, SE wind @ 15-25 mph, 30.1" Hg
Date:	8/14/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: *Slight yellow color and odor in sample.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-17	Weather:	Mostly Cloudy, 71°F, SE wind @ 0-5 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	734.80
Top of screen (ft. MSL):	709.99	Materials:	PVC	Top of Casing elevation (ft. MSL):	736.68
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	23.47	23.82	24.28
Water elevation (ft. MSL):	713.21	712.86	712.40

3 Well Volumes (gal): 6.46 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	36.69	36.90	0.21

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ____ No-purge (specify sample interval): ____
____ Bailer ____ Other (specify): ____

Equipment type: ____ Submersible pump ____ Peristaltic pump X Bladder pump
____ Inertial lift pump ____ Bailer ____ No-purge (specify): ____
____ Other (specify): ____

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	703.18	Flow Rate (mL/min):	200	Volume removed (gal):	0.8
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	3.87
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-17_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	EPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading:
Time	10:11	10:13	10:15
Temp (°C)	14.60	14.50	14.54
Sp. Cond (umhos/cm)	3137.3	3143.6	3141.8
pH	6.66	6.63	6.61
DO (mg/l)	0.20	0.32	0.36
ORP (mV)	-139.0	-138.8	-139.1
Turbidity (NTU)	4.29	1.06	0.42

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-17	Weather:	Mostly Cloudy, 71°F, SE wind @ 0-5 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: *Very slight color and suspended solids in sample.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-18	Weather:	Overcast, 67°F, S wind @ 0-5 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	734.40
Top of screen (ft. MSL):	676.53	Materials:	PVC	Top of Casing elevation (ft. MSL):	736.28
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	25.76	26.11	26.96
Water elevation (ft. MSL):	710.52	710.17	709.32

3 Well Volumes (gal): 19.07 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	64.75	65.10	0.35

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	676.28	Flow Rate (mL/min):	200	Volume removed (gal):	1.3
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-18_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USEPA 7470A - Total Mercury		
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	9:30	9:32	9:35
Temp (°C)	14.00	14.07	14.28
Sp. Cond (umhos/cm)	2513.3	2513.4	2517.7
pH	6.46	6.44	6.40
DO (mg/l)	0.11	0.10	0.10
ORP (mV)	-58.3	-63.1	-66.2
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-18	Weather:	Overcast, 67°F, S wind @ 0-5 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-18 in Fall 2024.

Field duplicate (FD-1_24_08) collected at MW-18.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-19 | Weather: Cloudy, 76°F, SSW wind @ 10-15 mph, 29.8" Hg
Date: 8/15/2024 | Personnel: O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 721.10
Top of screen (ft. MSL): 680.23 | Materials: PVC | Top of Casing elevation (ft. MSL): 723.01
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	19.21	19.62	19.81
Water elevation (ft. MSL):	703.80	703.39	703.20

3 Well Volumes (gal): 13.97 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	47.78	47.80	0.02

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | X Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:) 680.01 | Flow Rate (mL/min): 250 | Volume removed (gal): 0.7 | Volume sampled (L): 1.87
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-19_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	13:05	13:07	13:09
Temp (°C)	17.30	17.03	16.87
Sp. Cond (umhos/cm)	2950.1	2947.2	2940.9
pH	5.43	5.43	5.43
DO (mg/l)	0.48	0.40	0.35
ORP (mV)	-117.1	-120.0	-122.0
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-19	Weather:	Cloudy, 76°F, SSW wind @ 10-15 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-19 in Fall 2024.

Field duplicate (FD-2_24_08) collected at MW-19.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-20	Weather:	Cloudy, 76°F, SSW wind @ 10-15 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	9	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	721.14
Top of screen (ft. MSL):*	706.73	Materials:	PVC	Top of Casing elevation (ft. MSL)*:	723.48
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	19.79	20.20	20.41
Water elevation (ft. MSL):	703.69	703.28	703.07

3 Well Volumes (gal): 3.40 Screen submerged? (Y/N): No

	Constructed*	Measured	Difference
Well Depth (ft. TOC):	26.75	26.50	0.25

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	699.98	Flow Rate (mL/min):	225	Volume removed (gal):	0.7
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-20_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	13:43	13:45	13:47
Temp (°C)	17.23	16.72	16.75
Sp. Cond (umhos/cm)	1800.1	1801.9	1807.0
pH	5.59	5.60	5.60
DO (mg/l)	0.40	0.31	0.26
ORP (mV)	-89.3	-92.0	-95.8
Turbidity (NTU)	1.99	4.62	3.90

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-20	Weather:	Cloudy, 76°F, SSW wind @ 10-15 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: *Well replaced in 2005 - could not find well construction form on DocDNA. TOC and Constructed Well Depth from 2005 AWQR. TOS estimated.

In accordance with Permit Amendment #16, annual monitoring was conducted at MW-20 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-21	Weather:	Clear, 72°F, SE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	9	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	730.62
Top of screen (ft. MSL):*	706.93	Materials:	PVC	Top of Casing elevation (ft. MSL):	732.88
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	28.47	29.25	29.29
Water elevation (ft. MSL):	704.41	703.63	703.59

3 Well Volumes (gal): 3.93 Screen submerged? (Y/N): No

	Constructed*	Measured	Difference
Well Depth (ft. TOC):	36.50	35.90	0.60

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	699.88	Flow Rate (mL/min):	200	Volume removed (gal):	0.7
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	3.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-21_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8081B - 4,4'-DDT & Dieldrin	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:24	14:26	14:28
Temp (°C)	15.54	15.49	15.32
Sp. Cond (umhos/cm)	2594.5	2591.0	2594.2
pH	6.19	6.13	6.12
DO (mg/l)	0.23	0.19	0.16
ORP (mV)	-3.7	1.6	4.6
Turbidity (NTU)	0.78	0.42	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-21	Weather:	Clear, 72°F, SE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: *Well replaced in 2005 - could not find well construction form on DocDNA. Constructed Well Depth from 2005 AWQR plus the Spring 2021 casing extension. TOS estimated.

In accordance with Permit Amendment #16, annual monitoring was conducted at MW-21 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-22	Weather:	Partly Cloudy, 72°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	731.05
Top of screen (ft. MSL):	681.27	Materials:	PVC	Top of Casing elevation (ft. MSL):	733.34
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	28.91	29.68	29.73
Water elevation (ft. MSL):	704.43	703.66	703.61

3 Well Volumes (gal): 13.96 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	57.45	57.50	0.05

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	681.34	Flow Rate (mL/min):	250	Volume removed (gal):	1.1
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	3.87
				Color? (Y/N):	Yes, slight

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-22_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - 2,2'-oxybis(1-Chloropropane) & Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	13:43	13:45	13:47
Temp (°C)	14.68	14.95	14.92
Sp. Cond (umhos/cm)	3547.4	3587.0	3618.3
pH	5.84	5.81	5.84
DO (mg/l)	0.42	0.41	0.36
ORP (mV)	-87.4	-89.5	-93.5
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-22	Weather:	Partly Cloudy, 72°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-22 in Fall 2024.

Field duplicate (FD-5_24_08) collected at MW-22.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-23	Weather:	Partly Cloudy, 76°F, SSE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	734.30
Top of screen (ft. MSL):	712.29	Materials:	PVC	Top of Casing elevation (ft. MSL):	736.74
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	31.59	31.86	32.62
Water elevation (ft. MSL):	705.15	704.88	704.12

3 Well Volumes (gal): 3.84 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	39.45	39.50	0.05

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	698.74	Flow Rate (mL/min):	200	Volume removed (gal):	0.5
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-23_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	15:47	15:49	15:51
Temp (°C)	17.03	16.54	16.54
Sp. Cond (umhos/cm)	1721.7	1721.7	1719.8
pH	5.22	5.24	5.23
DO (mg/l)	0.34	0.28	0.24
ORP (mV)	43.2	45.4	47.0
Turbidity (NTU)	0.45	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-23	Weather:	Partly Cloudy, 76°F, SSE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-23 in Fall 2024.

*Slight black suspended solids in sample.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-24 | Weather: Cloudy, 75°F, SSW wind @ 5-10 mph, 29.8" Hg
Date: 8/15/2024 | Personnel: O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 783.32
Top of screen (ft. MSL):* 707.00 | Materials: PVC | Top of Casing elevation (ft. MSL)*: 785.70
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	78.12	78.14	79.60
Water elevation (ft. MSL):	707.58	707.56	706.10

3 Well Volumes (gal): 5.17 | Screen submerged? (Y/N): Yes

	Constructed*	Measured	Difference
Well Depth (ft. TOC):	88.70	89.00	0.30

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 700.70 | Flow Rate (mL/min): 150 | Volume removed (gal): 1.5 | Volume sampled (L): 3.87
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-24_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4-D	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	13:43	13:48	13:52
Temp (°C)	20.44	19.96	19.92
Sp. Cond (umhos/cm)	1186.8	1187.7	1188.5
pH	5.62	5.68	5.69
DO (mg/l)	0.28	0.26	0.25
ORP (mV)	-53.8	-56.3	-57.4
Turbidity (NTU)	2.97	1.06	0.09

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-24	Weather:	Cloudy, 75°F, SSW wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: *Well replaced in 2005 - could not find well construction form on DocDNA. TOC and Constructed Well Depth from 2005 AWQR. TOS estimated.

In accordance with Permit Amendment #16, annual monitoring was conducted at MW-24 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-25	Weather:	Cloudy, 78°F, SSW wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	781.70
Top of screen (ft. MSL):	679.02	Materials:	PVC	Top of Casing elevation (ft. MSL):	784.20
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	76.76	76.76	77.00
Water elevation (ft. MSL):	707.44	707.44	707.20

3 Well Volumes (gal): 16.34 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	110.18	110.20	0.02

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	679.20	Flow Rate (mL/min):	200	Volume removed (gal):	0.9
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-25_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:42	14:46	14:50
Temp (°C)	19.14	18.99	18.86
Sp. Cond (umhos/cm)	889.78	894.02	894.67
pH	6.20	6.16	6.14
DO (mg/l)	0.36	0.30	0.26
ORP (mV)	-66.8	-66.6	-67.0
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-25	Weather:	Cloudy, 78°F, SSW wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-25 in Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-26 | Weather: Cloudy, 73°F, NE wind @ 5-10 mph, 30.2" Hg
Date: 8/19/2024 | Personnel: O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 807.70
Top of screen (ft. MSL): 716.70 | Materials: PVC | Top of Casing elevation (ft. MSL): 811.58
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	102.34	102.50	105.31
Water elevation (ft. MSL):	709.24	709.08	706.27

3 Well Volumes (gal): 3.69 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	109.88	111.35	1.47

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 703.58 | Flow Rate (mL/min): 150 | Volume removed (gal): 3.8 | Volume sampled (L): 2.37
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-26_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8081B - alpha-BHC & Heptachlor	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	12:15	12:20	12:25
Temp (°C)	22.83	21.99	21.18
Sp. Cond (umhos/cm)	1226.1	1220.0	1213.7
pH	5.57	5.59	5.60
DO (mg/l)	0.48	0.50	0.32
ORP (mV)	-139.5	-144.9	-149.3
Turbidity (NTU)	0.42	0.35	0.14

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-26	Weather:	Cloudy, 73°F, NE wind @ 5-10 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-26 in Fall 2024.

Collected field blank (FB-2_24_08) at 11:10.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-27 | Weather: Clear, 61°F, NW winds 10-20 mph, 30.1"Hg
Date: 8/9/2024 | Personnel: O.A. Technical Services: Randy Gavin & Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 807.30
Top of screen (ft. MSL): 671.66 | Materials: PVC | Top of Casing elevation (ft. MSL): 809.66
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	101.27	N/A*	N/A*
Water elevation (ft. MSL):	708.39	N/A*	N/A*

3 Well Volumes (gal): 20.41 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	143.00	143.35	0.35

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:): N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-27 is a water level only location.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-28	Weather:	Partly Cloudy, 77°F, NE wind @ 5-10 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	814.40
Top of screen (ft. MSL):	715.46	Materials:	PVC	Top of Casing elevation (ft. MSL):	816.62
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	108.17	108.28	110.08
Water elevation (ft. MSL):	708.45	708.34	706.54

3 Well Volumes (gal): 3.91 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	116.16	117.15	0.99

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	702.62	Flow Rate (mL/min):	150	Volume removed (gal):	1.5
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-28_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - m/p-Cresol	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:05	14:10	14:16
Temp (°C)	22.55	22.39	22.55
Sp. Cond (umhos/cm)	1084.4	1080.6	1076.9
pH	5.37	5.30	5.38
DO (mg/l)	0.26	0.23	0.21
ORP (mV)	-79.9	-78.4	-85.4
Turbidity (NTU)	0.47	0.56	0.76

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-28	Weather:	Partly Cloudy, 77°F, NE wind @ 5-10 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-28 in Fall 2024.

Field duplicate (FD-3_24_08) collected at MW-28.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-29 | Weather: Clear, 61°F, NW winds 10-20 mph, 30.1"Hg
Date: 8/9/2024 | Personnel: O.A. Technical Services: Randy Gavin & Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 813.80
Top of screen (ft. MSL): 679.70 | Materials: PVC | Top of Casing elevation (ft. MSL): 816.20
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	107.74	N/A*	N/A*
Water elevation (ft. MSL):	708.46	N/A*	N/A*

3 Well Volumes (gal): 16.51 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	141.50	141.75	0.25

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:): N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-29 is a water level only location.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-30	Weather:	Partly Cloudy, 77°F, NE wind @ 5-10 mph, 30.1" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	788.60
Top of screen (ft. MSL):	712.40	Materials:	PVC	Top of Casing elevation (ft. MSL):	790.98
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	81.66	81.63	81.92
Water elevation (ft. MSL):	709.32	709.35	709.06

3 Well Volumes (gal): 3.38 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	88.58	89.60	1.02

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	705.98	Flow Rate (mL/min):	200	Volume removed (gal):	0.9
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-30_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	15:06	15:10	15:13
Temp (°C)	18.43	18.65	18.52
Sp. Cond (umhos/cm)	1440.5	1446.4	1461.1
pH	5.51	5.46	5.50
DO (mg/l)	0.90	0.81	0.94
ORP (mV)	-89.8	-90.2	-93.3
Turbidity (NTU)	0.29	1.70	1.50

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-30	Weather:	Partly Cloudy, 77°F, NE wind @ 5-10 mph, 30.1" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-30 in Fall 2024.

*Black suspended solids in sample.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-31	Weather:	Clear, 68°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	787.90
Top of screen (ft. MSL):	671.00	Materials:	PVC	Top of Casing elevation (ft. MSL):	790.06
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	81.85	81.96	82.40
Water elevation (ft. MSL):	708.21	708.10	707.66

3 Well Volumes (gal): 20.64 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	124.06	124.20	0.14

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	671.06	Flow Rate (mL/min):	200	Volume removed (gal):	2.9
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-31_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	10:30	10:34	10:38
Temp (°C)	14.78	14.64	14.71
Sp. Cond (umhos/cm)	883.48	896.17	902.87
pH	7.00	7.03	7.05
DO (mg/l)	0.23	0.16	0.17
ORP (mV)	-73.7	-78.3	-77.9
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-31	Weather:	Clear, 68°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-31 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-32	Weather:	Mostly Cloudy, 74°F, ENE wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	746.80
Top of screen (ft. MSL):	713.62	Materials:	PVC	Top of Casing elevation (ft. MSL):	749.01
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	44.58	45.13	45.24
Water elevation (ft. MSL):	704.43	703.88	703.77

3 Well Volumes (gal): 5.40 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	55.62	55.80	0.18

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	699.01	Flow Rate (mL/min):	200	Volume removed (gal):	1.0
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	3.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-32_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	EPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	15:25	15:27	15:30
Temp (°C)	15.70	15.69	15.71
Sp. Cond (umhos/cm)	3412.7	3403.9	3414.0
pH	5.58	5.58	5.58
DO (mg/l)	0.16	0.15	0.12
ORP (mV)	-107.3	-108.5	-108.4
Turbidity (NTU)	1.35	1.99	0.88

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-32	Weather:	Mostly Cloudy, 74°F, ENE wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments:

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-33	Weather:	Clear, 64°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.86	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	746.36
Top of screen (ft. MSL):	670.39	Materials:	PVC	Top of Casing elevation (ft. MSL):	749.92
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	45.33	45.92	46.00
Water elevation (ft. MSL):	704.59	704.00	703.92

3 Well Volumes (gal): 19.17 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	84.53	84.70	0.17

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	670.92	Flow Rate (mL/min):	200	Volume removed (gal):	1.0
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-33_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	9:24	9:27	9:30
Temp (°C)	14.46	14.55	14.40
Sp. Cond (umhos/cm)	2522.2	2514.9	2466.3
pH	6.85	6.87	6.89
DO (mg/l)	0.26	0.22	0.19
ORP (mV)	-75.2	-79.8	-82.2
Turbidity (NTU)*	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-33	Weather:	Clear, 64°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: Collected field blank (FB-3_24_08) at 9:25.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-34	Weather:	Clear, 72°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	745.33
Top of screen (ft. MSL):	708.91	Materials:	PVC	Top of Casing elevation (ft. MSL):	748.72
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	42.63	43.06	44.48
Water elevation (ft. MSL):	706.09	705.66	704.24

3 Well Volumes (gal): 3.51 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	49.81	49.50	0.31

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	700.72	Flow Rate (mL/min):	200	Volume removed (gal):	2.0
Well dry? (Y/N):	No	Odor? (Y/N):	Yes, slight	Volume sampled (L):	1.87
				Color? (Y/N):	Yes, slight*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-34_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	11:54	11:56	11:59
Temp (°C)	16.33	16.60	16.70
Sp. Cond (umhos/cm)	4085.1	4145.5	4175.1
pH	6.40	6.31	6.30
DO (mg/l)	0.13	0.11	0.11
ORP (mV)	-143.5	-139.4	-137.6
Turbidity (NTU)	3.99	3.59	3.18

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-34	Weather:	Clear, 72°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-34 in Fall 2024.

*Slight color and odor, and black suspended solids in sample.

Field duplicate (FD-4_24_08) collected at MW-34.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-35	Weather:	Clear, 67°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	741.63
Top of screen (ft. MSL):	711.04	Materials:	PVC	Top of Casing elevation (ft. MSL):	744.89
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	40.02	40.66	41.25
Water elevation (ft. MSL):	704.87	704.23	703.64

3 Well Volumes (gal): 1.87 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	43.85	45.40	1.55

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	700.69	Flow Rate (mL/min):	200	Volume removed (gal):	1.1
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-35_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	10:57	10:59	11:01
Temp (°C)	13.91	13.92	13.99
Sp. Cond (umhos/cm)	1602.8	1606.3	1610.7
pH	6.81	6.80	6.72
DO (mg/l)	0.33	0.30	0.27
ORP (mV)	20.8	20.8	22.1
Turbidity (NTU)	3.50	3.06	3.16

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-35	Weather:	Clear, 67°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-36	Weather:	Clear, 66°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	741.58
Top of screen (ft. MSL):	674.03	Materials:	PVC	Top of Casing elevation (ft. MSL):	745.22
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	40.44	41.06	41.07
Water elevation (ft. MSL):	704.78	704.16	704.15

3 Well Volumes (gal): 17.48 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	76.19	76.20	0.01

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	674.22	Flow Rate (mL/min):	225	Volume removed (gal):	1.3
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.87
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-36_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	10:21	10:24	10:27
Temp (°C)	14.78	14.70	14.81
Sp. Cond (umhos/cm)	2049.4	2050.7	2052.6
pH	6.61	6.59	6.61
DO (mg/l)	0.56	0.62	0.51
ORP (mV)	-70.6	-70.9	-73.8
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-36	Weather:	Clear, 66°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-36 in Fall 2024.

*Black suspended solids in sample.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-37	Weather:	Clear, 75°F, E wind @ 0-5 mph, 30.1" Hg
Date:	8/12/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.68	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	782.70
Top of screen (ft. MSL):	724.97	Materials:	PVC	Top of Casing elevation (ft. MSL):	784.81
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	64.98	N/A	N/A
Water elevation (ft. MSL):	719.83	N/A	N/A

3 Well Volumes (gal): 2.38 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	69.84	69.95	0.11

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) X No-purge (specify sample interval): Bottom of Screen
_ Bailer _ Other (specify): _____

Equipment type: _ Submersible pump _ Peristaltic pump X Bladder pump
_ Inertial lift pump _ Bailer _ No-purge (specify): _____
_ Other (specify): _____

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	715.81	Flow Rate (mL/min):	200	Volume removed (gal):	N/A
Volume sampled (L):	4.37				
Well dry? (Y/N):	No	Odor? (Y/N):	No	Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-37_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl) phthalate, Di-n-butylphthalate, m/p-Cresol, & Phenol	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8081B - 4,4'-DDT, alpha-BHC, beta-BHC, delta-BHC, Dieldrin, Heptachlor	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4,5-TP (Silvex), 2,4-D	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-37	Weather:	Clear, 75°F, E wind @ 0-5 mph, 30.1" Hg
Date:	8/12/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Field Analysis

	Final Reading
Time	11:04
Temp (°C)	20.08
Sp. Cond (umhos/cm)	610.73
pH	6.57
DO (mg/l)	7.30
ORP (mV)	31.5
Turbidity (NTU)	0.00

Comments: No purge sampling conducted since well recharge rate is less than 100 mL/min. Field measurements collected prior to sample collection using flow-through cell.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-38 | Weather: Partly Cloudy, 69°F, SSE wind @ 0-5 mph, 30.1" Hg
Date: 8/12/2024 | Personnel: O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8.68 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 782.60
Top of screen (ft. MSL): 699.26 | Materials: PVC | Top of Casing elevation (ft. MSL): 784.81
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	65.08	65.09	66.66
Water elevation (ft. MSL):	719.73	719.72	718.15

3 Well Volumes (gal): 12.45 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	90.55	90.10	0.45

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 699.81 | Flow Rate (mL/min): 200 | Volume removed (gal): 1.4 | Volume sampled (L): 3.87
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-38_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - 2,2'-oxybis(1-Chloropropane) & Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	EPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USEPA 7470A - Mercury		No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-38	Weather:	Partly Cloudy, 69°F, SSE wind @ 0-5 mph, 30.1" Hg
Date:	8/12/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Field Analysis

			Final Reading
Time	10:20	10:24	10:27
Temp (°C)	16.13	15.94	15.79
Sp. Cond (umhos/cm)	422.67	424.32	423.02
pH	7.05	7.04	7.01
DO (mg/l)	0.55	0.47	0.41
ORP (mV)	49.7	43.7	40.3
Turbidity (NTU)	0.00	0.00	0.00

Comments:

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: VP-3 | Weather: Partly Cloudy, 79°F, E wind @ 0-5 mph, 30.1" Hg
Date: 8/12/2024 | Personnel: O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 9 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 774.99
Top of screen (ft. MSL): 710.42 | Materials: PVC | Top of Casing elevation (ft. MSL): 774.52
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	63.20	63.19	63.19
Water elevation (ft. MSL):	711.32	711.33	711.33

3 Well Volumes (gal): 5.33 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	74.10	74.30	0.20

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | ___ Peristaltic pump | X Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:) 706.02 | Flow Rate (mL/min): 150 | Volume removed (gal): 0.9 | Volume sampled (L): 1.87
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
VP-3_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate & Di-n-butylphthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	13:19	13:23	13:27
Temp (°C)	21.37	21.28	21.12
Sp. Cond (umhos/cm)	1041.0	1040.1	1040.4
pH	5.82	5.77	5.74
DO (mg/l)	0.29	0.26	0.24
ORP (mV)	-127.5	-131.3	-134.5
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	VP-3	Weather:	Partly Cloudy, 79°F, E wind @ 0-5 mph, 30.1" Hg
Date:	8/12/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at VP-3 in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	VP-4	Weather:	Cloudy, 74°F, SE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	9	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	791.29
Top of screen (ft. MSL):	718.01	Materials:	PVC	Top of Casing elevation (ft. MSL):	790.91
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	79.74	79.68	80.31
Water elevation (ft. MSL):	711.17	711.23	710.60

3 Well Volumes (gal): 1.59 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	82.99	83.25	0.26

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	708.91	Flow Rate (mL/min):	200	Volume removed (gal):	1.8
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	2.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
VP-4_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8081B - Heptachlor	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	11:46	11:49	11:52
Temp (°C)	17.99	18.11	17.53
Sp. Cond (umhos/cm)	773.92	776.97	772.92
pH	5.91	5.86	5.85
DO (mg/l)	0.30	0.29	0.28
ORP (mV)	-106.1	-105.7	-106.3
Turbidity (NTU) In acc	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	VP-4	Weather:	Cloudy, 74°F, SE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at VP-4 in Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-101A | Weather: Cloudy, 76°F, SE wind @ 5-10 mph, 30.1" Hg
Date: 8/13/2024 | Personnel: O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 717.95
Top of screen (ft. MSL): 706.36 | Materials: PVC | Top of Casing elevation (ft. MSL): 720.47
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	16.09	16.35	16.37
Water elevation (ft. MSL):	704.38	704.12	704.10

3 Well Volumes (gal): 6.58 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	29.55	29.45	0.10

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | X Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:) 693.97 | Flow Rate (mL/min): 200 | Volume removed (gal): 1.0 | Volume sampled (L): 4.37
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-101A_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - Bis(2-ethylhexyl) phthalate, Di-n-butylphthalate, m/p-Cresol, & Phenol	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8081B - 4,4'-DDT, alpha-BHC, beta-BHC, delta-BHC, Dieldrin, Heptachlor	(2) Amber Glass 250 mL - Unpreserved	No
	USEPA 8151A - 2,4,5-TP (Silvex), 2,4-D	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-101A	Weather:	Cloudy, 76°F, SE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Field Analysis

			Final Reading
Time	13:09	13:11	13:13
Temp (°C)	18.82	18.25	18.50
Sp. Cond (umhos/cm)	1167.5	1173.9	1181.4
pH	6.04	6.04	6.05
DO (mg/l)	0.56	0.50	0.44
ORP (mV)	179.0	169.1	175.5
Turbidity (NTU)	0.33	0.56	0.82

Comments:

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-101B | Weather: Mostly Cloudy, 77°F, SE wind @ 5-10 mph, 30.1" Hg
Date: 8/13/2024 | Personnel: O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 717.86
Top of screen (ft. MSL): 640.36 | Materials: PVC | Top of Casing elevation (ft. MSL): 720.33
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	15.90	16.17	16.82
Water elevation (ft. MSL):	704.43	704.16	703.51

3 Well Volumes (gal): 33.74 | Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	84.90	84.85	0.05

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | ___ Other (specify): ___

Equipment type: ___ Submersible pump | X Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic | Dedicated? (Y/N): No | Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:) 640.33 | Flow Rate (mL/min): 125 | Volume removed (gal): 1.7 | Volume sampled (L): 3.87
Well dry? (Y/N): No | Odor? (Y/N): No | Color? (Y/N): No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-101B_24_08	USEPA 8260D - Appendix I VOCs & 1,3-Dichlorobenzene	(3) VOA Vial 40 mL - HCl	No
	USEPA 8270E - 2,2'-oxybis(1-Chloropropane) & Bis(2-ethylhexyl)phthalate	(2) Amber Glass 250 mL - Unpreserved	No
	EPA 8151A - 2,4,5-TP (Silvex)	(2) Amber Glass 1 Liter - Unpreserved	No
	USEPA 6020A - Appendix I Total Metals & Tin	(1) Plastic 250 mL - HNO_3	No
	USEPA 7470A - Mercury		No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-101B	Weather:	Mostly Cloudy, 77°F, SE wind @ 5-10 mph, 30.1" Hg
Date:	8/13/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Field Analysis

			Final Reading
Time	14:28	14:32	14:36
Temp (°C)	17.77	17.44	18.00
Sp. Cond (umhos/cm)	1163.5	1163.0	1170.3
pH	6.45	6.46	6.45
DO (mg/l)	3.66	3.65	3.64
ORP (mV)	125.8	120.6	116.5
Turbidity (NTU)	0.00	0.00	0.00

Comments:

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-102A	Weather:	Clear, 61°F, NW winds 10-20 mph, 30.1"Hg
Date:	8/9/2024	Personnel:	O.A. Technical Services: Randy Gavin & Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	723.29
Top of screen (ft. MSL):	705.11	Materials:	PVC	Top of Casing elevation (ft. MSL):	725.57
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	21.08	N/A*	N/A*
Water elevation (ft. MSL):	704.49	N/A*	N/A*

3 Well Volumes (gal): 6.20 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	33.75	33.75	0.00

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: ___ Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump ___ Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:)	N/A	Flow Rate (mL/min):	N/A	Volume removed (gal):	N/A
Well dry? (Y/N):	No	Odor? (Y/N):	N/A	Volume sampled (L):	N/A
				Color? (Y/N):	N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-102A is a water level only location.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-102B	Weather:	Partly Cloudy, 77°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	723.68
Top of screen (ft. MSL):	651.28	Materials:	PVC	Top of Casing elevation (ft. MSL):	726.21
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	21.85	22.51	22.80
Water elevation (ft. MSL):	704.36	703.70	703.41

3 Well Volumes (gal): 32.35 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	88.00	88.00	0.00

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	643.21	Flow Rate (mL/min):	200	Volume removed (gal):	2.2
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-102B_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	15:32	15:34	15:37
Temp (°C)	17.18	17.25	17.14
Sp. Cond (umhos/cm)	995.51	1017.3	1020.0
pH	6.32	6.33	6.35
DO (mg/l)	0.20	0.21	0.21
ORP (mV)	72.9	67.9	63.2
Turbidity (NTU)	4.42	4.50	4.52

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-102B	Weather:	Partly Cloudy, 77°F, E wind @ 5-10 mph, 30.2" Hg
Date:	8/20/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-102B in Fall 2024.

Site Name: Cedar Rapids Linn County Solid Waste Agency Site 1 | Permit No.: 57-SDP-03-75C
Well/Piezometer: MW-103A | Weather: Clear, 61°F, NW winds 10-20 mph, 30.1"Hg
Date: 8/9/2024 | Personnel: O.A. Technical Services: Randy Gavin & Tyler Merritt

Monitoring Well Details

Borehole diameter (in): 8 | Casing Diameter (in): 2 | Ground surface elevation (ft. MSL): 717.62
Top of screen (ft. MSL): 707.62 | Materials: PVC | Top of Casing elevation (ft. MSL): 720.34
Locked (Y/N): Yes

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	14.91	N/A*	N/A*
Water elevation (ft. MSL):	705.43	N/A*	N/A*

3 Well Volumes (gal): 3.91 | Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	22.90	22.50	0.40

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: ___ Pump (low flow) | ___ No-purge (specify sample interval): ___
___ Bailer | X Other (specify): Water Level Only - No Sample*

Equipment type: ___ Submersible pump | ___ Peristaltic pump | ___ Bladder pump
___ Inertial lift pump | ___ Bailer | ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: ___ Dedicated? (Y/N): ___ Disposable? (Y/N): ___
Decontamination method: ___

Equipment depth (ft. MSL:): N/A | Flow Rate (mL/min): N/A | Volume removed (gal): N/A | Volume sampled (L): N/A
Well dry? (Y/N): No | Odor? (Y/N): N/A | Color? (Y/N): N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-103A is a water level only location.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-103C	Weather:	Clear, 61°F, NW winds 10-20 mph, 30.1"Hg
Date:	8/9/2024	Personnel:	O.A. Technical Services: Randy Gavin & Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	717.32
Top of screen (ft. MSL):	649.32	Materials:	PVC	Top of Casing elevation (ft. MSL):	719.90
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	14.44	N/A*	N/A*
Water elevation (ft. MSL):	705.46	N/A*	N/A*

3 Well Volumes (gal): 30.03 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	75.85	75.50	0.35

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: ____ Pump (low flow) ____ No-purge (specify sample interval): ____
____ Bailer X Other (specify): Water Level Only - No Sample*

Equipment type: ____ Submersible pump ____ Peristaltic pump ____ Bladder pump
____ Inertial lift pump ____ Bailer ____ No-purge (specify): ____
____ Other (specify): ____

Equipment name/description: ____ Dedicated? (Y/N): ____ Disposable? (Y/N): ____
Decontamination method: ____

Equipment depth (ft. MSL:)	N/A	Flow Rate (mL/min):	N/A	Volume removed (gal):	N/A
Well dry? (Y/N):	No	Odor? (Y/N):	N/A	Volume sampled (L):	N/A
				Color? (Y/N):	N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-103C is a water level only location.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-104B	Weather:	Clear, 69°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	771.09
Top of screen (ft. MSL):	686.09	Materials:	PVC	Top of Casing elevation (ft. MSL):	773.35
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	64.12	64.29	64.63
Water elevation (ft. MSL):	709.23	709.06	708.72

3 Well Volumes (gal): 16.62 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	98.10	98.20	0.10

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump ___ Peristaltic pump X Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: QED Sample Pro Bladder Pump Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing/bladder; Alconox/DI rinse on pump

Equipment depth (ft. MSL:)	680.35	Flow Rate (mL/min):	200	Volume removed (gal):	1.8
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.25
				Color? (Y/N):	Yes*

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-104B_24_08	USEPA 6020A - Total Arsenic	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	12:01	12:05	12:09
Temp (°C)	15.96	15.86	15.59
Sp. Cond (umhos/cm)	1602.1	1606.9	1610.6
pH	6.04	5.98	5.94
DO (mg/l)	0.16	0.15	0.14
ORP (mV)	-27.0	-25.6	-24.6
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-104B	Weather:	Clear, 69°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-104B in Fall 2024.

* Black suspended solids in sample.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-105A	Weather:	Mostly Cloudy, 76°F, NE wind @ 5-10 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	721.80
Top of screen (ft. MSL):	708.80	Materials:	PVC	Top of Casing elevation (ft. MSL):	723.97
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	21.38	21.94	22.06
Water elevation (ft. MSL):	702.59	702.03	701.91

3 Well Volumes (gal): 4.41 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	30.40	30.35	0.05

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	698.97	Flow Rate (mL/min):	200	Volume removed (gal):	0.6
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-105A_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	11:45	11:47	11:49
Temp (°C)	15.39	15.32	15.04
Sp. Cond (umhos/cm)	1441.8	1446.6	1446.3
pH	5.37	5.35	5.34
DO (mg/l)	0.63	0.52	0.48
ORP (mV)	16.2	21.9	25.3
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-105A	Weather:	Mostly Cloudy, 76°F, NE wind @ 5-10 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-105A in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-105B	Weather:	Mostly Cloudy, 76°F, NE wind @ 5-10 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	721.80
Top of screen (ft. MSL):	648.80	Materials:	PVC	Top of Casing elevation (ft. MSL):	724.00
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	21.51	22.05	22.05
Water elevation (ft. MSL):	702.49	701.95	701.95

3 Well Volumes (gal): 31.29 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	85.50	85.40	0.10

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	644.00	Flow Rate (mL/min):	250	Volume removed (gal):	0.5
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-105B_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	12:07	12:09	12:11
Temp (°C)	14.08	14.21	14.13
Sp. Cond (umhos/cm)	2336.7	2349.9	2346.8
pH	5.69	5.67	5.66
DO (mg/l)	0.45	0.33	0.26
ORP (mV)	-9.0	-11.4	-13.2
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-105B	Weather:	Mostly Cloudy, 76°F, NE wind @ 5-10 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-105B in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-106A	Weather:	Mostly Cloudy, 73°F, NE wind @ 5-10 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	714.04
Top of screen (ft. MSL):	707.34	Materials:	PVC	Top of Casing elevation (ft. MSL):	716.19
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	12.93	13.70	14.30
Water elevation (ft. MSL):	703.26	702.49	701.89

3 Well Volumes (gal): 5.19 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	23.55	23.50	0.05

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	698.19	Flow Rate (mL/min):	200	Volume removed (gal):	1.4
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-106A_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	11:09	11:11	11:13
Temp (°C)	14.95	14.82	14.69
Sp. Cond (umhos/cm)	2218.9	2218.9	2231.5
pH	6.13	6.13	6.14
DO (mg/l)	0.16	0.15	0.15
ORP (mV)	-165.2	-164.9	-165.4
Turbidity (NTU)	25.89	25.00	25.25

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-106A	Weather:	Mostly Cloudy, 73°F, NE wind @ 5-10 mph, 30.2" Hg
Date:	8/19/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-106A in Fall 2024

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-107A	Weather:	Cloudy, 72°F, S wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	719.13
Top of screen (ft. MSL):	706.90	Materials:	PVC	Top of Casing elevation (ft. MSL):	721.65
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	18.17	18.55	18.57
Water elevation (ft. MSL):	703.48	703.10	703.08

3 Well Volumes (gal): 5.76 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	29.95	29.65	0.30

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	696.65	Flow Rate (mL/min):	200	Volume removed (gal):	0.6
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-107A_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	10:41	10:43	10:45
Temp (°C)	18.61	18.33	18.44
Sp. Cond (umhos/cm)	1294.1	1293.0	1296.4
pH	5.72	5.71	5.72
DO (mg/l)	0.45	0.37	0.32
ORP (mV)	226.5	224.4	219.4
Turbidity (NTU)	0.00	0.00	0.61

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-107A	Weather:	Cloudy, 72°F, S wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-107A in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-107B	Weather:	Cloudy, 72°F, S wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	719.12
Top of screen (ft. MSL):	660.37	Materials:	PVC	Top of Casing elevation (ft. MSL):	721.91
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	17.98	18.34	18.40
Water elevation (ft. MSL):	703.93	703.57	703.51

3 Well Volumes (gal): 24.22 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	67.51	67.60	0.09

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	659.41	Flow Rate (mL/min):	200	Volume removed (gal):	2.0
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-107B_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	11:38	11:40	11:42
Temp (°C)	17.11	17.20	17.34
Sp. Cond (umhos/cm)	1172.8	1178.7	1171.2
pH	5.94	5.94	5.94
DO (mg/l)	0.18	0.17	0.17
ORP (mV)	20.3	18.1	16.6
Turbidity (NTU)	3.81	3.77	3.80

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-107B	Weather:	Cloudy, 72°F, S wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-107B in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-108A	Weather:	Clear, 61°F, NW winds 10-20 mph, 30.1"Hg
Date:	8/9/2024	Personnel:	O.A. Technical Services: Randy Gavin & Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	719.45
Top of screen (ft. MSL):	710.15	Materials:	PVC	Top of Casing elevation (ft. MSL):	719.11
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	12.18	N/A*	N/A*
Water elevation (ft. MSL):	706.93	N/A*	N/A*

3 Well Volumes (gal): 3.48 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	19.30	19.30	0.00

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method:	Pump (low flow)		No-purge (specify sample interval):
	Bailer	X	Other (specify): Water Level Only - No Sample*

Equipment type:	Submersible pump	Peristaltic pump	Bladder pump		
	Inertial lift pump	Bailer	No-purge (specify):		
	Other (specify):				

Equipment name/description: Dedicated? (Y/N): Disposable? (Y/N):

Decontamination method:

Equipment depth (ft. MSL:)	N/A	Flow Rate (mL/min):	N/A	Volume removed (gal):	N/A
Volume sampled (L):	N/A				
Well dry? (Y/N):	No	Odor? (Y/N):	N/A	Color? (Y/N):	N/A

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
	Sample not collected*	N/A	N/A

Field Analysis

Time	N/A
Temp (°C)	N/A
Sp. Cond (umhos/cm)	N/A
pH	N/A
DO (mg/l)	N/A
ORP (mV)	N/A
Turbidity (NTU)	N/A

Comments: *In accordance with Permit Amendment #16, MW-108A is a water level only location.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-108B	Weather:	Clear, 69°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.25	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	719.45
Top of screen (ft. MSL):	646.77	Materials:	PVC	Top of Casing elevation (ft. MSL):	719.00
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	12.89	12.73	13.55
Water elevation (ft. MSL):	706.11	706.27	705.45

3 Well Volumes (gal): 31.20 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	76.70	76.80	0.10

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ____ No-purge (specify sample interval): ____
____ Bailer ____ Other (specify): ____

Equipment type: ____ Submersible pump X Peristaltic pump ____ Bladder pump
____ Inertial lift pump ____ Bailer ____ No-purge (specify): ____
____ Other (specify): ____

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	645.00	Flow Rate (mL/min):	125	Volume removed (gal):	0.4
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-108B_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	13:44	13:48	13:52
Temp (°C)	17.84	17.54	17.44
Sp. Cond (umhos/cm)	930.16	930.05	943.15
pH	6.34	6.34	6.34
DO (mg/l)	0.76	0.61	0.57
ORP (mV)	181.4	181.2	182.7
Turbidity (NTU)	0.00	0.11	1.39

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-108B	Weather:	Clear, 69°F, ESE wind @ 5-10 mph, 30.3" Hg
Date:	8/21/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-108B in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-109A	Weather:	Cloudy, 78°F, SSW wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.25	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	721.23
Top of screen (ft. MSL):	707.23	Materials:	PVC	Top of Casing elevation (ft. MSL):	724.17
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	20.86	21.26	21.43
Water elevation (ft. MSL):	703.31	702.91	702.74

3 Well Volumes (gal): 3.22 Screen submerged? (Y/N): No

	Constructed	Measured	Difference
Well Depth (ft. TOC):	27.45	27.15	0.30

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	701.17	Flow Rate (mL/min):	200	Volume removed (gal):	0.6
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-109A_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	14:34	14:36	14:38
Temp (°C)	17.50	17.57	17.25
Sp. Cond (umhos/cm)	1683.7	1699.0	1698.5
pH	5.54	5.54	5.53
DO (mg/l)	1.00	0.88	0.81
ORP (mV)	38.1	42.0	44.9
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-109A	Weather:	Cloudy, 78°F, SSW wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments: In accordance with Permit Amendment #16, annual monitoring was conducted at MW-109A in Fall 2024.

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-109B	Weather:	Cloudy, 78°F, SSW wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Monitoring Well Details

Borehole diameter (in):	8.25	Casing Diameter (in):	2	Ground surface elevation (ft. MSL):	721.27
Top of screen (ft. MSL):	650.27	Materials:	PVC	Top of Casing elevation (ft. MSL):	724.37
Locked (Y/N):	Yes				

	Static WL	Before purging	Before sampling
Water Level (ft. TOC):	20.50	20.79	20.91
Water elevation (ft. MSL):	703.87	703.58	703.46

3 Well Volumes (gal): 31.08 Screen submerged? (Y/N): Yes

	Constructed	Measured	Difference
Well Depth (ft. TOC):	84.05	83.65	0.40

Well conditions commentary: See Well Maintenance Evaluation Form for details.

Sampling Details

Sampling Method: X Pump (low flow) ___ No-purge (specify sample interval): ___
___ Bailer ___ Other (specify): ___

Equipment type: ___ Submersible pump X Peristaltic pump ___ Bladder pump
___ Inertial lift pump ___ Bailer ___ No-purge (specify): ___
___ Other (specify): ___

Equipment name/description: GeoTech Peristaltic Dedicated? (Y/N): No Disposable? (Y/N): No
Decontamination method: disposable tubing

Equipment depth (ft. MSL:)	645.37	Flow Rate (mL/min):	125	Volume removed (gal):	0.7
Well dry? (Y/N):	No	Odor? (Y/N):	No	Volume sampled (L):	1.37
				Color? (Y/N):	No

Sample Name(s)	Method(s)	Container(s)	Filtered? (if yes, filter size)
MW-109B_24_08	USEPA 8260D - Appendix I VOCs	(3) VOA Vial 40 mL - HCl	No
	USEPA 6020A - Appendix I Total Metals	(1) Plastic 250 mL - HNO_3	No
	USGS I-3765-85 - TSS	(1) Plastic 1 Liter - Unpreserved	No

Field Analysis

			Final Reading
Time	15:11	15:15	15:19
Temp (°C)	18.97	18.95	18.81
Sp. Cond (umhos/cm)	2378.4	2382.3	2386.9
pH	5.56	5.56	5.56
DO (mg/l)	0.62	0.59	0.53
ORP (mV)	-82.9	-79.8	-77.6
Turbidity (NTU)	0.00	0.00	0.00

Site Name:	Cedar Rapids Linn County Solid Waste Agency Site 1	Permit No.:	57-SDP-03-75C
Well/Piezometer:	MW-109B	Weather:	Cloudy, 78°F, SSW wind @ 5-10 mph, 29.8" Hg
Date:	8/15/2024	Personnel:	O.A. Technical Services: Randy Gavin and Tyler Merritt

Comments:

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gina Wilming
Foth Infrastructure & Environment, LLC
411 6th Avenue SE
Suite 400
Cedar Rapids, Iowa 52401

Generated 8/28/2024 10:09:58 AM

JOB DESCRIPTION

CRLCSWA_1

JOB NUMBER

310-288174-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
8/28/2024 10:09:58 AM

Authorized for release by
Conner Calhoun, Project Management Assistant I
Conner.Calhoun@et.eurofinsus.com
(319)277-2401

Table of Contents

Job Narrative
310-288174-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/14/2024 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.5°C, 0.8°C, 1.6°C, 1.9°C and 2.4°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 310-430579 recovered above the upper control limit for Carbon disulfide (21.5%D), cis-1,3-Dichloropropene (20.6%D), and 1,1-Dichloroethene (21.0%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-430579/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 7470A: The continuing calibration verification (CCV) associated with batch 310-431571 recovered above the upper control limit for Mercury. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. MW-38_24_08 (310-288174-10), MW-101B_24_08 (310-288174-14) and FB-1_24_08 (310-288174-16)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-288174-1	AW-1_24_08	Ground Water	08/13/24 13:05	08/14/24 15:15
310-288174-2	AW-2_24_08	Ground Water	08/12/24 14:25	08/14/24 15:15
310-288174-3	AW-3_24_08	Ground Water	08/13/24 14:00	08/14/24 15:15
310-288174-4	AW-4_24_08	Ground Water	08/13/24 16:25	08/14/24 15:15
310-288174-5	CRL-9_24_08	Ground Water	08/13/24 16:25	08/14/24 15:15
310-288174-6	MW-17_24_08	Ground Water	08/13/24 10:20	08/14/24 15:15
310-288174-7	MW-18_24_08	Ground Water	08/13/24 09:40	08/14/24 15:15
310-288174-8	MW-23_24_08	Ground Water	08/13/24 15:55	08/14/24 15:15
310-288174-9	MW-37_24_08	Ground Water	08/12/24 11:25	08/14/24 15:15
310-288174-10	MW-38_24_08	Ground Water	08/12/24 10:30	08/14/24 15:15
310-288174-11	VP-3_24_08	Ground Water	08/12/24 13:30	08/14/24 15:15
310-288174-12	VP-4_24_08	Ground Water	08/13/24 11:55	08/14/24 15:15
310-288174-13	MW-101A_24_08	Ground Water	08/13/24 13:20	08/14/24 15:15
310-288174-14	MW-101B_24_08	Ground Water	08/13/24 14:40	08/14/24 15:15
310-288174-15	FD-1_24_08	Ground Water	08/13/24 00:00	08/14/24 15:15
310-288174-16	FB-1_24_08	Water	08/13/24 16:20	08/14/24 15:15
310-288174-17	TB-1_24_08	Water	08/13/24 00:00	08/14/24 15:15

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: AW-1_24_08 — Lab Sample ID: 310-288174-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.443	J	1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.574	J	1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.26		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	0.330	J	0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	5.70		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.756	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.0461		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.178	F1	0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00136		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000817		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0246		0.00500	0.00210	mg/L	1		6020B	Total/NA
Silver	0.000705	J	0.00100	0.000500	mg/L	1		6020B	Total/NA
Thallium	0.00161		0.00100	0.000570	mg/L	1		6020B	Total/NA
Zinc	0.0231		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	27.8		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: AW-2_24_08 — Lab Sample ID: 310-288174-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.29		1.00	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	2.26		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.12		1.00	0.210	ug/L	1		8260D	Total/NA
Vinyl chloride	0.693	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0166		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.468		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000104	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00169		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00109		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0132		0.00500	0.00210	mg/L	1		6020B	Total/NA
Silver	0.000691	J	0.00100	0.000500	mg/L	1		6020B	Total/NA
Thallium	0.00341		0.00100	0.000570	mg/L	1		6020B	Total/NA
Zinc	0.0136	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	17.7		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: AW-3_24_08 — Lab Sample ID: 310-288174-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.309	J	1.00	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.00251		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0705		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.75	J	1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: AW-4_24_08 — Lab Sample ID: 310-288174-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.64	J	10.0	3.10	ug/L	1		8260D	Total/NA
Antimony	0.00282		0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.00408		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0900		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000476		0.000200	0.000100	mg/L	1		6020B	Total/NA
Chromium	0.00147	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.00370		0.000500	0.000170	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AW-4_24_08 (Continued) — Lab Sample ID: 310-288174-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.0917		0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0894		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00254	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: CRL-9_24_08 — Lab Sample ID: 310-288174-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.62		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	0.432	J	1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.0487		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.454		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00185	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.00408		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0173		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00120	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Zinc	0.0139	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	22.5		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-17_24_08 — Lab Sample ID: 310-288174-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0707		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.145		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00520		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00784		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	61.0		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-18_24_08 — Lab Sample ID: 310-288174-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00347		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0197		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00643		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	3.40		3.00	2.22	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-23_24_08 — Lab Sample ID: 310-288174-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.119		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000883		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00228	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0128		0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.000868	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Zinc	0.0668		0.0200	0.00970	mg/L	1		6020B	Total/NA

Client Sample ID: MW-37_24_08 — Lab Sample ID: 310-288174-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0518		0.00200	0.000660	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-38_24_08 — Lab Sample ID: 310-288174-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00102	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0457		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: VP-3_24_08 — Lab Sample ID: 310-288174-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.318	J	1.00	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	0.700	J	1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.329	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.00770		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.774		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	21.0		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: VP-4_24_08 — Lab Sample ID: 310-288174-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00344		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0670		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-101A_24_08 — Lab Sample ID: 310-288174-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.129		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000513		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00231	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Selenium	0.00259	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: MW-101B_24_08 — Lab Sample ID: 310-288174-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000612	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.122		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000175	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Selenium	0.00217	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: FD-1_24_08 — Lab Sample ID: 310-288174-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00343		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0198		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00636		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: FB-1_24_08 — Lab Sample ID: 310-288174-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.442	J	1.00	0.430	ug/L	1		8260D	Total/NA

Client Sample ID: TB-1_24_08 — Lab Sample ID: 310-288174-17

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: AW-1_24_08
Date Collected: 08/13/24 13:05
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-1
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 03:42	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 03:42	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 03:42	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 03:42	1
1,1-Dichloroethane	**0.443**	**J**	1.00	0.220	ug/L			08/16/24 03:42	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 03:42	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 03:42	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 03:42	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 03:42	1
1,2-Dichlorobenzene	**0.574**	**J**	1.00	0.370	ug/L			08/16/24 03:42	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 03:42	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 03:42	1
1,4-Dichlorobenzene	**1.26**		1.00	0.230	ug/L			08/16/24 03:42	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 03:42	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 03:42	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 03:42	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 03:42	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 03:42	1
Benzene	**0.330**	**J**	0.500	0.220	ug/L			08/16/24 03:42	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 03:42	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 03:42	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 03:42	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 03:42	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 03:42	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 03:42	1
Chlorobenzene	**5.70**		1.00	0.400	ug/L			08/16/24 03:42	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 03:42	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 03:42	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 03:42	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 03:42	1
cis-1,2-Dichloroethene	**0.756**	**J**	1.00	0.210	ug/L			08/16/24 03:42	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 03:42	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 03:42	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 03:42	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 03:42	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 03:42	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 03:42	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 03:42	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 03:42	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 03:42	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 03:42	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 03:42	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 03:42	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 03:42	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 03:42	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 03:42	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*08/16/24 03:42*	*1*

Client Sample ID: AW-1_24_08
Lab Sample ID: 310-288174-1
Date Collected: 08/13/24 13:05
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/24 03:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 03:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/16/24 08:45	08/23/24 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*82*		*45 - 129*	*08/16/24 08:45*	*08/23/24 20:51*	*1*
2-Fluorobiphenyl (Surr)	*78*		*39 - 118*	*08/16/24 08:45*	*08/23/24 20:51*	*1*
Terphenyl-d14 (Surr)	*88*		*12 - 144*	*08/16/24 08:45*	*08/23/24 20:51*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 15:38	1
Arsenic	**0.0461**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 19:27	1
Barium	**0.178**	**F1**	0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 19:27	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 19:27	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 19:27	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 19:27	1
Cobalt	**0.00136**		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 19:27	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 19:27	1
Lead	**0.000817**		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 19:27	1
Nickel	**0.0246**		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 19:27	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 19:27	1
Silver	**0.000705**	**J**	0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 19:27	1
Thallium	**0.00161**		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 19:27	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 19:27	1
Zinc	**0.0231**		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 19:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**27.8**		3.75	2.78	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: AW-2_24_08
Date Collected: 08/12/24 14:25
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-2
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 04:05	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 04:05	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 04:05	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 04:05	1
1,1-Dichloroethane	**1.29**		1.00	0.220	ug/L			08/16/24 04:05	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 04:05	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 04:05	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 04:05	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 04:05	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 04:05	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 04:05	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 04:05	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 04:05	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 04:05	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 04:05	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 04:05	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 04:05	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 04:05	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 04:05	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 04:05	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 04:05	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 04:05	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 04:05	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 04:05	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 04:05	1
Chlorobenzene	**2.26**		1.00	0.400	ug/L			08/16/24 04:05	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 04:05	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 04:05	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 04:05	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 04:05	1
cis-1,2-Dichloroethene	**3.12**		1.00	0.210	ug/L			08/16/24 04:05	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 04:05	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 04:05	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 04:05	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 04:05	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 04:05	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 04:05	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 04:05	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 04:05	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 04:05	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 04:05	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 04:05	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 04:05	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 04:05	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 04:05	1
Vinyl chloride	**0.693**	**J**	1.00	0.180	ug/L			08/16/24 04:05	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*73 - 130*		*08/16/24 04:05*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: AW-2_24_08
Lab Sample ID: 310-288174-2

Date Collected: 08/12/24 14:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/16/24 04:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 04:05*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.98		10.9	5.98	ug/L		08/16/24 08:45	08/23/24 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*58*		*45 - 129*	*08/16/24 08:45*	*08/23/24 21:16*	*1*
2-Fluorobiphenyl (Surr)	*54*		*39 - 118*	*08/16/24 08:45*	*08/23/24 21:16*	*1*
Terphenyl-d14 (Surr)	*64*		*12 - 144*	*08/16/24 08:45*	*08/23/24 21:16*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 15:53	1
Arsenic	**0.0166**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 19:44	1
Barium	**0.468**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 19:44	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 19:44	1
Cadmium	**0.000104**	**J**	0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 19:44	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 19:44	1
Cobalt	**0.00169**		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 19:44	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 19:44	1
Lead	**0.00109**		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 19:44	1
Nickel	**0.0132**		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 19:44	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 19:44	1
Silver	**0.000691**	**J**	0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 19:44	1
Thallium	**0.00341**		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 19:44	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 19:44	1
Zinc	**0.0136**	**J**	0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**17.7**		5.00	3.70	mg/L			08/15/24 15:57	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: AW-3_24_08
Date Collected: 08/13/24 14:00
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-3
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 04:28	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 04:28	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 04:28	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 04:28	1
1,1-Dichloroethane	**0.309**	**J**	1.00	0.220	ug/L			08/16/24 04:28	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 04:28	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 04:28	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 04:28	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 04:28	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 04:28	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 04:28	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 04:28	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 04:28	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 04:28	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 04:28	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 04:28	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 04:28	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 04:28	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 04:28	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 04:28	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 04:28	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 04:28	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 04:28	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 04:28	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 04:28	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 04:28	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 04:28	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 04:28	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 04:28	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 04:28	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 04:28	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 04:28	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 04:28	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 04:28	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 04:28	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 04:28	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 04:28	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 04:28	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 04:28	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 04:28	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 04:28	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 04:28	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 04:28	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 04:28	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 04:28	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 04:28	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*08/16/24 04:28*	*1*

Client Sample ID: AW-3_24_08
Lab Sample ID: 310-288174-3
Date Collected: 08/13/24 14:00
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/24 04:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/16/24 04:28*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.29		9.62	5.29	ug/L		08/16/24 08:45	08/23/24 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*78*		*45 - 129*	*08/16/24 08:45*	*08/23/24 21:41*	*1*
2-Fluorobiphenyl (Surr)	*76*		*39 - 118*	*08/16/24 08:45*	*08/23/24 21:41*	*1*
Terphenyl-d14 (Surr)	*82*		*12 - 144*	*08/16/24 08:45*	*08/23/24 21:41*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.0270		0.0640	0.0270	ug/L		08/19/24 15:32	08/21/24 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*10 - 136*	*08/19/24 15:32*	*08/21/24 14:38*	*1*
Tetrachloro-m-xylene	*72*		*10 - 130*	*08/19/24 15:32*	*08/21/24 14:38*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 15:55	1
Arsenic	**0.00251**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 19:48	1
Barium	**0.0705**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 19:48	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 19:48	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 19:48	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 19:48	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 19:48	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 19:48	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 19:48	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 19:48	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 19:48	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 19:48	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 19:48	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 19:48	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 19:48	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/16/24 09:15	08/23/24 19:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**1.75**	**J**	1.88	1.39	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: AW-4_24_08
Date Collected: 08/13/24 16:25
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-4
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 10:33	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 10:33	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 10:33	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 10:33	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 10:33	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 10:33	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 10:33	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 10:33	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 10:33	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 10:33	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 10:33	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 10:33	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 10:33	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 10:33	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 10:33	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 10:33	1
Acetone	**4.64**	**J**	10.0	3.10	ug/L			08/19/24 14:12	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 10:33	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 10:33	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 10:33	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 10:33	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 10:33	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 10:33	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 10:33	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 10:33	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 10:33	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 10:33	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 10:33	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 10:33	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 10:33	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 10:33	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 10:33	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 10:33	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/19/24 14:12	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 10:33	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 10:33	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 10:33	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 10:33	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 10:33	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 10:33	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 10:33	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 10:33	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 10:33	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 10:33	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 10:33	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 10:33	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/19/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*08/16/24 10:33*	*1*

Client Sample ID: AW-4_24_08
Lab Sample ID: 310-288174-4
Date Collected: 08/13/24 16:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*73 - 130*		*08/19/24 14:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/16/24 10:33*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/19/24 14:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/16/24 10:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/19/24 14:12*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<6.55		11.9	6.55	ug/L		08/16/24 08:45	08/23/24 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*72*		*45 - 129*	*08/16/24 08:45*	*08/23/24 22:06*	*1*
2-Fluorobiphenyl (Surr)	*69*		*39 - 118*	*08/16/24 08:45*	*08/23/24 22:06*	*1*
Terphenyl-d14 (Surr)	*77*		*12 - 144*	*08/16/24 08:45*	*08/23/24 22:06*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00282**		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 15:57	1
Arsenic	**0.00408**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:06	1
Barium	**0.0900**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:06	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:06	1
Cadmium	**0.000476**		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:06	1
Chromium	**0.00147**	**J**	0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:06	1
Cobalt	**0.00370**		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:06	1
Copper	**0.0917**		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:06	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:06	1
Nickel	**0.0894**		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:06	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:06	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:06	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:06	1
Vanadium	**0.00254**	**J**	0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:06	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.50**		1.88	1.39	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: CRL-9_24_08
Lab Sample ID: 310-288174-5
Date Collected: 08/13/24 16:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 04:51	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 04:51	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 04:51	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 04:51	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 04:51	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 04:51	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 04:51	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 04:51	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 04:51	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 04:51	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 04:51	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 04:51	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/16/24 04:51	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 04:51	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 04:51	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 04:51	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 04:51	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 04:51	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 04:51	1
Benzene	**2.62**		0.500	0.220	ug/L			08/16/24 04:51	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 04:51	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 04:51	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 04:51	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 04:51	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 04:51	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 04:51	1
Chlorobenzene	**0.432**	**J**	1.00	0.400	ug/L			08/16/24 04:51	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 04:51	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 04:51	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 04:51	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 04:51	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 04:51	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 04:51	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 04:51	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 04:51	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 04:51	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 04:51	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 04:51	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 04:51	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 04:51	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 04:51	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 04:51	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 04:51	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 04:51	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 04:51	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 04:51	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 04:51	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 04:51	1

Client Sample ID: CRL-9_24_08
Lab Sample ID: 310-288174-5
Date Collected: 08/13/24 16:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*73 - 130*		*08/16/24 04:51*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/24 04:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/16/24 04:51*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.73		10.4	5.73	ug/L		08/16/24 08:45	08/23/24 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*70*		*45 - 129*	*08/16/24 08:45*	*08/23/24 22:31*	*1*
2-Fluorobiphenyl (Surr)	*65*		*39 - 118*	*08/16/24 08:45*	*08/23/24 22:31*	*1*
Terphenyl-d14 (Surr)	*78*		*12 - 144*	*08/16/24 08:45*	*08/23/24 22:31*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 15:59	1
Arsenic	**0.0487**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:10	1
Barium	**0.454**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:10	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:10	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:10	1
Chromium	**0.00185**	**J**	0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:10	1
Cobalt	**0.00408**		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:10	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:10	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:10	1
Nickel	**0.0173**		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:10	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:10	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:10	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:10	1
Vanadium	**0.00120**	**J**	0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:10	1
Zinc	**0.0139**	**J**	0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:10	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/16/24 09:15	08/23/24 20:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**22.5**		7.50	5.55	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: MW-17_24_08
Date Collected: 08/13/24 10:20
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-6
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 05:13	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 05:13	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 05:13	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 05:13	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 05:13	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 05:13	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 05:13	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 05:13	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 05:13	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 05:13	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 05:13	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 05:13	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 05:13	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 05:13	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 05:13	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 05:13	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 05:13	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 05:13	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 05:13	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 05:13	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 05:13	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 05:13	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 05:13	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 05:13	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 05:13	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 05:13	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 05:13	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 05:13	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 05:13	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 05:13	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 05:13	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 05:13	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 05:13	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 05:13	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 05:13	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 05:13	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 05:13	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 05:13	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 05:13	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 05:13	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 05:13	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 05:13	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 05:13	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 05:13	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 05:13	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 05:13	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*73 - 130*		*08/16/24 05:13*	*1*

Client Sample ID: MW-17_24_08
Lab Sample ID: 310-288174-6
Date Collected: 08/13/24 10:20
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/16/24 05:13*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 05:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<6.25		11.4	6.25	ug/L		08/19/24 13:19	08/26/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*45 - 129*	*08/19/24 13:19*	*08/26/24 17:33*	*1*
2-Fluorobiphenyl (Surr)	*75*		*39 - 118*	*08/19/24 13:19*	*08/26/24 17:33*	*1*
Terphenyl-d14 (Surr)	*86*		*12 - 144*	*08/19/24 13:19*	*08/26/24 17:33*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0916		1.10	0.0916	ug/L		08/19/24 08:19	08/21/24 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*78*		*25 - 130*	*08/19/24 08:19*	*08/21/24 17:15*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:02	1
Arsenic	**0.0707**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:13	1
Barium	**0.145**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:13	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:13	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:13	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:13	1
Cobalt	**0.00520**		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:13	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:13	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:13	1
Nickel	**0.00784**		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:13	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:13	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:13	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:13	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:13	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**61.0**		5.00	3.70	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: MW-18_24_08
Date Collected: 08/13/24 09:40
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-7
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 05:36	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 05:36	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 05:36	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 05:36	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 05:36	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 05:36	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 05:36	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 05:36	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 05:36	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 05:36	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 05:36	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 05:36	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 05:36	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 05:36	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 05:36	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 05:36	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 05:36	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 05:36	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 05:36	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 05:36	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 05:36	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 05:36	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 05:36	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 05:36	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 05:36	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 05:36	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 05:36	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 05:36	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 05:36	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 05:36	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 05:36	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 05:36	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 05:36	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 05:36	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 05:36	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 05:36	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 05:36	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 05:36	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 05:36	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 05:36	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 05:36	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 05:36	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 05:36	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 05:36	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 05:36	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 05:36	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*73 - 130*		*08/16/24 05:36*	*1*

Client Sample ID: MW-18_24_08
Lab Sample ID: 310-288174-7
Date Collected: 08/13/24 09:40
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/24 05:36*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 05:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.98		10.9	5.98	ug/L		08/19/24 13:19	08/26/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*65*		*45 - 129*	*08/19/24 13:19*	*08/26/24 17:59*	*1*
2-Fluorobiphenyl (Surr)	*57*		*39 - 118*	*08/19/24 13:19*	*08/26/24 17:59*	*1*
Terphenyl-d14 (Surr)	*62*		*12 - 144*	*08/19/24 13:19*	*08/26/24 17:59*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:04	1
Arsenic	**0.00347**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:17	1
Barium	**0.0197**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:17	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:17	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:17	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:17	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:17	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:17	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:17	1
Nickel	**0.00643**		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:17	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:17	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:17	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:17	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:17	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		08/27/24 11:45	08/27/24 16:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**3.40**		3.00	2.22	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: MW-23_24_08
Date Collected: 08/13/24 15:55
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-8
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 05:59	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 05:59	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 05:59	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 05:59	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 05:59	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 05:59	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 05:59	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 05:59	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 05:59	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 05:59	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 05:59	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 05:59	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 05:59	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 05:59	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 05:59	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 05:59	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 05:59	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 05:59	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 05:59	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 05:59	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 05:59	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 05:59	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 05:59	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 05:59	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 05:59	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 05:59	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 05:59	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 05:59	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 05:59	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 05:59	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 05:59	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 05:59	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 05:59	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 05:59	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 05:59	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 05:59	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 05:59	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 05:59	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 05:59	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 05:59	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 05:59	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 05:59	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 05:59	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 05:59	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 05:59	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 05:59	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*73 - 130*		*08/16/24 05:59*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-23_24_08
Lab Sample ID: 310-288174-8
Date Collected: 08/13/24 15:55
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/16/24 05:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/16/24 05:59*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:06	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:20	1
Barium	**0.119**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:20	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:20	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:20	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:20	1
Cobalt	**0.000883**		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:20	1
Copper	**0.00228**	**J**	0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:20	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:20	1
Nickel	**0.0128**		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:20	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:20	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:20	1
Thallium	**0.000868**	**J**	0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:20	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:20	1
Zinc	**0.0668**		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:20	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/16/24 09:15	08/23/24 20:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-37_24_08
Lab Sample ID: 310-288174-9
Date Collected: 08/12/24 11:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 06:22	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 06:22	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 06:22	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 06:22	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 06:22	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 06:22	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 06:22	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 06:22	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 06:22	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 06:22	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 06:22	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 06:22	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/16/24 06:22	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 06:22	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 06:22	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 06:22	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 06:22	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 06:22	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 06:22	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 06:22	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 06:22	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 06:22	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 06:22	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 06:22	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 06:22	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 06:22	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 06:22	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 06:22	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 06:22	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 06:22	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 06:22	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 06:22	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 06:22	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 06:22	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 06:22	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 06:22	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 06:22	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 06:22	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 06:22	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 06:22	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 06:22	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 06:22	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 06:22	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 06:22	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 06:22	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 06:22	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 06:22	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 06:22	1

Client Sample ID: MW-37_24_08
Date Collected: 08/12/24 11:25
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-9
Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*08/16/24 06:22*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/24 06:22*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 06:22*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m & p-Cresol	<0.700		10.0	0.700	ug/L		08/16/24 08:45	08/23/24 22:56	1
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/16/24 08:45	08/23/24 22:56	1
Di-n-butyl phthalate	<5.60		10.0	5.60	ug/L		08/16/24 08:45	08/23/24 22:56	1
Phenol	<1.10		10.0	1.10	ug/L		08/16/24 08:45	08/23/24 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*25 - 110*	*08/16/24 08:45*	*08/23/24 22:56*	*1*
Phenol-d5 (Surr)	*68*		*21 - 110*	*08/16/24 08:45*	*08/23/24 22:56*	*1*
Nitrobenzene-d5 (Surr)	*96*		*45 - 129*	*08/16/24 08:45*	*08/23/24 22:56*	*1*
2-Fluorobiphenyl (Surr)	*98*		*39 - 118*	*08/16/24 08:45*	*08/23/24 22:56*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*27 - 136*	*08/16/24 08:45*	*08/23/24 22:56*	*1*
Terphenyl-d14 (Surr)	*105*		*12 - 144*	*08/16/24 08:45*	*08/23/24 22:56*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0290		0.0640	0.0290	ug/L		08/19/24 15:32	08/21/24 14:55	1
beta-BHC	<0.0370		0.0640	0.0370	ug/L		08/19/24 15:32	08/21/24 14:55	1
4,4'-DDT	<0.0420		0.0640	0.0420	ug/L		08/19/24 15:32	08/21/24 14:55	1
delta-BHC	<0.0270		0.0640	0.0270	ug/L		08/19/24 15:32	08/21/24 14:55	1
Dieldrin	<0.0260		0.0640	0.0260	ug/L		08/19/24 15:32	08/21/24 14:55	1
Heptachlor	<0.0330		0.0640	0.0330	ug/L		08/19/24 15:32	08/21/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*10 - 136*	*08/19/24 15:32*	*08/21/24 14:55*	*1*
Tetrachloro-m-xylene	*68*		*10 - 130*	*08/19/24 15:32*	*08/21/24 14:55*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.312		1.02	0.312	ug/L		08/19/24 08:19	08/21/24 17:34	1
2,4,5-TP	<0.0847		1.02	0.0847	ug/L		08/19/24 08:19	08/21/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*76*		*25 - 130*	*08/19/24 08:19*	*08/21/24 17:34*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:08	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:24	1
Barium	**0.0518**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:24	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:24	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:24	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:24	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:24	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:24	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:24	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:24	1

Client Sample ID: MW-37_24_08
Lab Sample ID: 310-288174-9
Date Collected: 08/12/24 11:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:24	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:24	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:24	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:24	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:24	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/16/24 09:15	08/23/24 20:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/15/24 15:57	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-38_24_08
Lab Sample ID: 310-288174-10
Date Collected: 08/12/24 10:30
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 06:45	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 06:45	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 06:45	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 06:45	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 06:45	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 06:45	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 06:45	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 06:45	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 06:45	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 06:45	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 06:45	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 06:45	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/16/24 06:45	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 06:45	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 06:45	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 06:45	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 06:45	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 06:45	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 06:45	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 06:45	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 06:45	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 06:45	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 06:45	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 06:45	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 06:45	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 06:45	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 06:45	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 06:45	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 06:45	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 06:45	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 06:45	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 06:45	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 06:45	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 06:45	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 06:45	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 06:45	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 06:45	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 06:45	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 06:45	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 06:45	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 06:45	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 06:45	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 06:45	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 06:45	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 06:45	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 06:45	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 06:45	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 06:45	1

Client Sample ID: MW-38_24_08
Lab Sample ID: 310-288174-10
Date Collected: 08/12/24 10:30
Matrix: Ground Water
Date Received: 08/14/24 15:15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*73 - 130*		*08/16/24 06:45*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/16/24 06:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 06:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/16/24 08:45	08/26/24 13:13	1
2,2'-Oxybis (1-chloropropane)	<0.540		10.0	0.540	ug/L		08/16/24 08:45	08/26/24 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*66*		*45 - 129*	*08/16/24 08:45*	*08/26/24 13:13*	*1*
2-Fluorobiphenyl (Surr)	*62*		*39 - 118*	*08/16/24 08:45*	*08/26/24 13:13*	*1*
Terphenyl-d14 (Surr)	*68*		*12 - 144*	*08/16/24 08:45*	*08/26/24 13:13*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0889		1.07	0.0889	ug/L		08/19/24 08:19	08/21/24 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*70*		*25 - 130*	*08/19/24 08:19*	*08/21/24 17:52*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:11	1
Arsenic	**0.00102**	**J**	0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:28	1
Barium	**0.0457**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:28	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:28	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:28	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:28	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:28	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:28	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:28	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:28	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:28	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:28	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:28	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:28	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:28	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/16/24 09:15	08/23/24 20:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110	^+	0.000200	0.000110	mg/L		08/27/24 11:45	08/27/24 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/15/24 15:57	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: VP-3_24_08
Date Collected: 08/12/24 13:30
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-11
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 07:07	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 07:07	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 07:07	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 07:07	1
1,1-Dichloroethane	**0.318**	**J**	1.00	0.220	ug/L			08/16/24 07:07	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 07:07	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 07:07	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 07:07	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 07:07	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 07:07	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 07:07	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 07:07	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 07:07	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 07:07	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 07:07	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 07:07	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 07:07	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 07:07	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 07:07	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 07:07	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 07:07	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 07:07	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 07:07	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 07:07	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 07:07	1
Chlorobenzene	**0.700**	**J**	1.00	0.400	ug/L			08/16/24 07:07	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 07:07	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 07:07	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 07:07	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 07:07	1
cis-1,2-Dichloroethene	**0.329**	**J**	1.00	0.210	ug/L			08/16/24 07:07	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 07:07	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 07:07	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 07:07	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 07:07	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 07:07	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 07:07	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 07:07	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 07:07	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 07:07	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 07:07	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 07:07	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 07:07	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 07:07	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 07:07	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 07:07	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*08/16/24 07:07*	*1*

Client Sample ID: VP-3_24_08
Lab Sample ID: 310-288174-11
Date Collected: 08/12/24 13:30
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/24 07:07*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/16/24 07:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<6.25		11.4	6.25	ug/L		08/16/24 08:45	08/26/24 13:40	1
Di-n-butyl phthalate	<6.36		11.4	6.36	ug/L		08/16/24 08:45	08/26/24 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*81*		*45 - 129*	*08/16/24 08:45*	*08/26/24 13:40*	*1*
2-Fluorobiphenyl (Surr)	*76*		*39 - 118*	*08/16/24 08:45*	*08/26/24 13:40*	*1*
Terphenyl-d14 (Surr)	*59*		*12 - 144*	*08/16/24 08:45*	*08/26/24 13:40*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:13	1
Arsenic	**0.00770**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:32	1
Barium	**0.774**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:32	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:32	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:32	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:32	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:32	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:32	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:32	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:32	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:32	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:32	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:32	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:32	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**21.0**		5.00	3.70	mg/L			08/15/24 15:57	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: VP-4_24_08
Date Collected: 08/13/24 11:55
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-12
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 07:30	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 07:30	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 07:30	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 07:30	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 07:30	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 07:30	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 07:30	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 07:30	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 07:30	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 07:30	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 07:30	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 07:30	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 07:30	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 07:30	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 07:30	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 07:30	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 07:30	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 07:30	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 07:30	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 07:30	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 07:30	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 07:30	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 07:30	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 07:30	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 07:30	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 07:30	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 07:30	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 07:30	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 07:30	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 07:30	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 07:30	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 07:30	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 07:30	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 07:30	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 07:30	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 07:30	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 07:30	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 07:30	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 07:30	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 07:30	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 07:30	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 07:30	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 07:30	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 07:30	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 07:30	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 07:30	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*73 - 130*		*08/16/24 07:30*	*1*

Client Sample ID: VP-4_24_08
Lab Sample ID: 310-288174-12
Date Collected: 08/13/24 11:55
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/16/24 07:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 07:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<9.82		17.9	9.82	ug/L		08/19/24 13:19	08/26/24 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*83*		*45 - 129*	*08/19/24 13:19*	*08/26/24 18:25*	*1*
2-Fluorobiphenyl (Surr)	*78*		*39 - 118*	*08/19/24 13:19*	*08/26/24 18:25*	*1*
Terphenyl-d14 (Surr)	*92*		*12 - 144*	*08/19/24 13:19*	*08/26/24 18:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	<0.0344		0.0667	0.0344	ug/L		08/19/24 15:32	08/21/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*10 - 136*	*08/19/24 15:32*	*08/21/24 15:11*	*1*
Tetrachloro-m-xylene	*50*		*10 - 130*	*08/19/24 15:32*	*08/21/24 15:11*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:26	1
Arsenic	**0.00344**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:39	1
Barium	**0.0670**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:39	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:39	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:39	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:39	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:39	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:39	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:39	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:39	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:39	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:39	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:39	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:39	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.88**		1.88	1.39	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-101A_24_08
Lab Sample ID: 310-288174-13
Date Collected: 08/13/24 13:20
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 07:53	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 07:53	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 07:53	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 07:53	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 07:53	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 07:53	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 07:53	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 07:53	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 07:53	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 07:53	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 07:53	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 07:53	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/16/24 07:53	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 07:53	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 07:53	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 07:53	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 07:53	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 07:53	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 07:53	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 07:53	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 07:53	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 07:53	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 07:53	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 07:53	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 07:53	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 07:53	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 07:53	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 07:53	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 07:53	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 07:53	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 07:53	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 07:53	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 07:53	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 07:53	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 07:53	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 07:53	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 07:53	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 07:53	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 07:53	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 07:53	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 07:53	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 07:53	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 07:53	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 07:53	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 07:53	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 07:53	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 07:53	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 07:53	1

Client Sample ID: MW-101A_24_08
Date Collected: 08/13/24 13:20
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-13
Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*73 - 130*		*08/16/24 07:53*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/16/24 07:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 07:53*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m & p-Cresol	<0.761		10.9	0.761	ug/L		08/19/24 13:19	08/26/24 18:50	1
Bis(2-ethylhexyl) phthalate	<5.98		10.9	5.98	ug/L		08/19/24 13:19	08/26/24 18:50	1
Di-n-butyl phthalate	<6.09		10.9	6.09	ug/L		08/19/24 13:19	08/26/24 18:50	1
Phenol	<1.20		10.9	1.20	ug/L		08/19/24 13:19	08/26/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*52*		*25 - 110*	*08/19/24 13:19*	*08/26/24 18:50*	*1*
Phenol-d5 (Surr)	*52*		*21 - 110*	*08/19/24 13:19*	*08/26/24 18:50*	*1*
Nitrobenzene-d5 (Surr)	*76*		*45 - 129*	*08/19/24 13:19*	*08/26/24 18:50*	*1*
2-Fluorobiphenyl (Surr)	*69*		*39 - 118*	*08/19/24 13:19*	*08/26/24 18:50*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*27 - 136*	*08/19/24 13:19*	*08/26/24 18:50*	*1*
Terphenyl-d14 (Surr)	*78*		*12 - 144*	*08/19/24 13:19*	*08/26/24 18:50*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0315		0.0696	0.0315	ug/L		08/19/24 15:39	08/21/24 16:00	1
beta-BHC	<0.0402		0.0696	0.0402	ug/L		08/19/24 15:39	08/21/24 16:00	1
4,4'-DDT	<0.0457		0.0696	0.0457	ug/L		08/19/24 15:39	08/21/24 16:00	1
delta-BHC	<0.0293		0.0696	0.0293	ug/L		08/19/24 15:39	08/21/24 16:00	1
Dieldrin	<0.0283		0.0696	0.0283	ug/L		08/19/24 15:39	08/21/24 16:00	1
Heptachlor	<0.0359		0.0696	0.0359	ug/L		08/19/24 15:39	08/21/24 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*10 - 136*	*08/19/24 15:39*	*08/21/24 16:00*	*1*
Tetrachloro-m-xylene	*72*		*10 - 130*	*08/19/24 15:39*	*08/21/24 16:00*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.319		1.04	0.319	ug/L		08/19/24 08:19	08/21/24 18:11	1
2,4,5-TP	<0.0867		1.04	0.0867	ug/L		08/19/24 08:19	08/21/24 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*71*		*25 - 130*	*08/19/24 08:19*	*08/21/24 18:11*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:28	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 20:57	1
Barium	**0.129**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 20:57	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 20:57	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 20:57	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 20:57	1
Cobalt	**0.000513**		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 20:57	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 20:57	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 20:57	1
Nickel	**0.00231**	**J**	0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 20:57	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-101A_24_08
Lab Sample ID: 310-288174-13
Date Collected: 08/13/24 13:20
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.00259**	**J**	0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 20:57	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 20:57	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 20:57	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 20:57	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 20:57	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/16/24 09:15	08/23/24 20:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/17/24 09:36	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-101B_24_08
Lab Sample ID: 310-288174-14
Date Collected: 08/13/24 14:40
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 08:16	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 08:16	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 08:16	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 08:16	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 08:16	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 08:16	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 08:16	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 08:16	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 08:16	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 08:16	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 08:16	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 08:16	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/16/24 08:16	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 08:16	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 08:16	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 08:16	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 08:16	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 08:16	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 08:16	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 08:16	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 08:16	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 08:16	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 08:16	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 08:16	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 08:16	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 08:16	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 08:16	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 08:16	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 08:16	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 08:16	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 08:16	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 08:16	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 08:16	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 08:16	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 08:16	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 08:16	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 08:16	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 08:16	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 08:16	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 08:16	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 08:16	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 08:16	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 08:16	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 08:16	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 08:16	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 08:16	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 08:16	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 08:16	1

Client Sample ID: MW-101B_24_08

Lab Sample ID: 310-288174-14

Date Collected: 08/13/24 14:40

Matrix: Ground Water

Date Received: 08/14/24 15:15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*08/16/24 08:16*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/16/24 08:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/16/24 08:16*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis(1-chloropropane)	<0.563		10.4	0.563	ug/L		08/16/24 08:45	08/26/24 14:05	1
Bis(2-ethylhexyl) phthalate	<5.73		10.4	5.73	ug/L		08/16/24 08:45	08/26/24 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*96*		*45 - 129*	*08/16/24 08:45*	*08/26/24 14:05*	*1*
2-Fluorobiphenyl (Surr)	*93*		*39 - 118*	*08/16/24 08:45*	*08/26/24 14:05*	*1*
Terphenyl-d14 (Surr)	*66*		*12 - 144*	*08/16/24 08:45*	*08/26/24 14:05*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0918		1.10	0.0918	ug/L		08/19/24 08:19	08/21/24 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*78*		*25 - 130*	*08/19/24 08:19*	*08/21/24 18:47*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:30	1
Arsenic	**0.000612**	**J**	0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 21:01	1
Barium	**0.122**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 21:01	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 21:01	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 21:01	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 21:01	1
Cobalt	**0.000175**	**J**	0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 21:01	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 21:01	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 21:01	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 21:01	1
Selenium	**0.00217**	**J**	0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 21:01	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 21:01	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 21:01	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 21:01	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 21:01	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/16/24 09:15	08/23/24 21:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110	^+	0.000200	0.000110	mg/L		08/27/24 11:45	08/27/24 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: FD-1_24_08
Date Collected: 08/13/24 00:00
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-15
Matrix: Ground Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 08:39	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 08:39	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 08:39	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 08:39	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 08:39	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 08:39	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 08:39	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 08:39	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 08:39	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 08:39	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 08:39	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 08:39	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 08:39	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 08:39	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 08:39	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 08:39	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 08:39	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 08:39	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 08:39	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 08:39	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 08:39	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 08:39	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 08:39	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 08:39	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 08:39	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 08:39	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 08:39	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 08:39	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 08:39	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 08:39	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 08:39	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 08:39	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 08:39	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 08:39	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 08:39	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 08:39	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 08:39	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 08:39	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 08:39	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 08:39	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 08:39	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 08:39	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 08:39	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 08:39	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 08:39	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 08:39	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 08:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*73 - 130*		*08/16/24 08:39*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: FD-1_24_08
Lab Sample ID: 310-288174-15

Date Collected: 08/13/24 00:00
Matrix: Ground Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/24 08:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 08:39*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:33	1
Arsenic	**0.00343**		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 21:04	1
Barium	**0.0198**		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 21:04	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 21:04	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 21:04	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 21:04	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 21:04	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 21:04	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 21:04	1
Nickel	**0.00636**		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 21:04	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 21:04	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 21:04	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 21:04	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 21:04	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 21:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.88**		1.88	1.39	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288174-1

Client Sample ID: FB-1_24_08
Date Collected: 08/13/24 16:20
Date Received: 08/14/24 15:15

Lab Sample ID: 310-288174-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 03:19	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 03:19	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 03:19	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 03:19	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 03:19	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 03:19	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 03:19	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 03:19	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 03:19	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 03:19	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 03:19	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 03:19	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/16/24 03:19	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 03:19	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 03:19	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 03:19	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 03:19	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 03:19	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 03:19	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 03:19	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 03:19	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 03:19	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 03:19	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 03:19	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 03:19	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 03:19	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 03:19	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 03:19	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 03:19	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 03:19	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 03:19	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 03:19	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 03:19	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 03:19	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 03:19	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 03:19	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 03:19	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 03:19	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 03:19	1
Toluene	**0.442**	**J**	1.00	0.430	ug/L			08/16/24 03:19	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 03:19	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 03:19	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 03:19	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 03:19	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 03:19	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 03:19	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 03:19	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 03:19	1

Client Sample ID: FB-1_24_08
Lab Sample ID: 310-288174-16
Date Collected: 08/13/24 16:20
Matrix: Water
Date Received: 08/14/24 15:15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*73 - 130*		*08/16/24 03:19*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/24 03:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/24 03:19*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m & p-Cresol	<0.729		10.4	0.729	ug/L		08/19/24 13:19	08/26/24 19:16	1
2,2'-oxybis(1-chloropropane)	<0.563		10.4	0.563	ug/L		08/19/24 13:19	08/26/24 19:16	1
Bis(2-ethylhexyl) phthalate	<5.73		10.4	5.73	ug/L		08/19/24 13:19	08/26/24 19:16	1
Di-n-butyl phthalate	<5.83		10.4	5.83	ug/L		08/19/24 13:19	08/26/24 19:16	1
Phenol	<1.15		10.4	1.15	ug/L		08/19/24 13:19	08/26/24 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*48*		*25 - 110*	*08/19/24 13:19*	*08/26/24 19:16*	*1*
Phenol-d5 (Surr)	*46*		*21 - 110*	*08/19/24 13:19*	*08/26/24 19:16*	*1*
Nitrobenzene-d5 (Surr)	*60*		*45 - 129*	*08/19/24 13:19*	*08/26/24 19:16*	*1*
2-Fluorobiphenyl (Surr)	*52*		*39 - 118*	*08/19/24 13:19*	*08/26/24 19:16*	*1*
2,4,6-Tribromophenol (Surr)	*53*		*27 - 136*	*08/19/24 13:19*	*08/26/24 19:16*	*1*
Terphenyl-d14 (Surr)	*65*		*12 - 144*	*08/19/24 13:19*	*08/26/24 19:16*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0290		0.0640	0.0290	ug/L		08/19/24 16:27	08/21/24 16:17	1
beta-BHC	<0.0370		0.0640	0.0370	ug/L		08/19/24 16:27	08/21/24 16:17	1
4,4'-DDT	<0.0420		0.0640	0.0420	ug/L		08/19/24 16:27	08/21/24 16:17	1
delta-BHC	<0.0270		0.0640	0.0270	ug/L		08/19/24 16:27	08/21/24 16:17	1
Dieldrin	<0.0260		0.0640	0.0260	ug/L		08/19/24 16:27	08/21/24 16:17	1
Heptachlor	<0.0330		0.0640	0.0330	ug/L		08/19/24 16:27	08/21/24 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*10 - 136*	*08/19/24 16:27*	*08/21/24 16:17*	*1*
Tetrachloro-m-xylene	*78*		*10 - 130*	*08/19/24 16:27*	*08/21/24 16:17*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.316		1.03	0.316	ug/L		08/19/24 08:19	08/21/24 16:57	1
2,4,5-TP	<0.0858		1.03	0.0858	ug/L		08/19/24 08:19	08/21/24 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*87*		*25 - 130*	*08/19/24 08:19*	*08/21/24 16:57*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 16:35	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 21:08	1
Barium	<0.000660		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 21:08	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 21:08	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 21:08	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 21:08	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 21:08	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 21:08	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 21:08	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: FB-1_24_08
Lab Sample ID: 310-288174-16
Date Collected: 08/13/24 16:20
Matrix: Water
Date Received: 08/14/24 15:15

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00210		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 21:08	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 21:08	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 21:08	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 21:08	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 21:08	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 21:08	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/16/24 09:15	08/23/24 21:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110	^+	0.000200	0.000110	mg/L		08/27/24 11:45	08/27/24 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/16/24 13:59	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: TB-1_24_08
Lab Sample ID: 310-288174-17
Date Collected: 08/13/24 00:00
Matrix: Water
Date Received: 08/14/24 15:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 13:23	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 13:23	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 13:23	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 13:23	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 13:23	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 13:23	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 13:23	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 13:23	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 13:23	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 13:23	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 13:23	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 13:23	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/16/24 13:23	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 13:23	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 13:23	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 13:23	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 13:23	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 13:23	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 13:23	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 13:23	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 13:23	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 13:23	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 13:23	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 13:23	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 13:23	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 13:23	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 13:23	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 13:23	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 13:23	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 13:23	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 13:23	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 13:23	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 13:23	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 13:23	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 13:23	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 13:23	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 13:23	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 13:23	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 13:23	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 13:23	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 13:23	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 13:23	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 13:23	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 13:23	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 13:23	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 13:23	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 13:23	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 13:23	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: TB-1_24_08
Lab Sample ID: 310-288174-17
Date Collected: 08/13/24 00:00
Matrix: Water
Date Received: 08/14/24 15:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		73 - 130		08/16/24 13:23	1
Toluene-d8 (Surr)	95		80 - 120		08/16/24 13:23	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/16/24 13:23	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-288174-1	AW-1_24_08	111	98	101
310-288174-1 MS	AW-1_24_08	95	101	101
310-288174-1 MSD	AW-1_24_08	95	101	100
310-288174-2	AW-2_24_08	114	97	101
310-288174-3	AW-3_24_08	111	98	102
310-288174-4	AW-4_24_08	111	99	100
310-288174-4	AW-4_24_08	117	96	100
310-288174-5	CRL-9_24_08	110	98	99
310-288174-6	MW-17_24_08	109	97	101
310-288174-7	MW-18_24_08	113	98	101
310-288174-8	MW-23_24_08	112	97	102
310-288174-9	MW-37_24_08	111	98	101
310-288174-10	MW-38_24_08	113	96	101
310-288174-11	VP-3_24_08	111	98	102
310-288174-12	VP-4_24_08	114	97	101
310-288174-13	MW-101A_24_08	112	97	101
310-288174-14	MW-101B_24_08	111	96	99
310-288174-15	FD-1_24_08	113	98	101

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-288174-16	FB-1_24_08	112	98	101
310-288174-17	TB-1_24_08	99	95	101
310-288195-E-1 MS	Matrix Spike	99	96	98
310-288195-E-1 MSD	Matrix Spike Duplicate	100	97	100
310-288236-D-1 MS	Matrix Spike	101	99	99
310-288236-D-1 MSD	Matrix Spike Duplicate	100	99	100
LCS 310-430513/6	Lab Control Sample	95	101	98
LCS 310-430513/7	Lab Control Sample	113	97	100
LCS 310-430579/6	Lab Control Sample	96	97	96
LCS 310-430579/7	Lab Control Sample	99	95	99
LCS 310-430752/6	Lab Control Sample	95	100	100
LCS 310-430752/7	Lab Control Sample	113	97	101
MB 310-430513/5	Method Blank	111	98	102
MB 310-430579/5	Method Blank	100	95	100
MB 310-430752/5	Method Blank	116	96	102

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHL	2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(45-129)	(39-118)	(12-144)	(25-110)	(21-110)	(27-136)
310-288174-1	AW-1_24_08	82	78	88			
310-288174-2	AW-2_24_08	58	54	64			
310-288174-3	AW-3_24_08	78	76	82			
310-288174-4	AW-4_24_08	72	69	77			
310-288174-5	CRL-9_24_08	70	65	78			
310-288174-6	MW-17_24_08	84	75	86			
310-288174-7	MW-18_24_08	65	57	62			
310-288174-9	MW-37_24_08	96	98	105	68	68	88
310-288174-10	MW-38_24_08	66	62	68			
310-288174-11	VP-3_24_08	81	76	59			
310-288174-12	VP-4_24_08	83	78	92			
310-288174-13	MW-101A_24_08	76	69	78	52	52	62
310-288174-14	MW-101B_24_08	96	93	66			

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)
2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(25-110)	(21-110)	(45-129)	(39-118)	(27-136)	(12-144)
310-288174-16	FB-1_24_08	48	46	60	52	53	65
LCS 310-430561/2-A	Lab Control Sample	61	60	81	75	87	97
LCS 310-430787/2-A	Lab Control Sample	47	44	58	53	53	65
LCSD 310-430561/3-A	Lab Control Sample Dup	58	57	76	72	79	89
LCSD 310-430787/3-A	Lab Control Sample Dup	53	51	66	62	63	75
MB 310-430561/1-A	Method Blank	60	60	77	67	83	90
MB 310-430787/1-A	Method Blank	52	51	68	61	61	77

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-288174-3	AW-3_24_08	83	72
310-288174-9	MW-37_24_08	75	68

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-288174-12	VP-4_24_08	65	50
310-288174-13	MW-101A_24_08	99	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-288174-16	FB-1_24_08	48	78
LCS 310-430798/4-A	Lab Control Sample	102	97
LCSD 310-430798/5-A	Lab Control Sample Dup	74	73
MB 310-430798/1-A	Method Blank	70	55

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(25-130)
310-288174-6	MW-17_24_08	78
310-288174-9	MW-37_24_08	76
310-288174-10	MW-38_24_08	70
310-288174-13	MW-101A_24_08	71
310-288174-14	MW-101B_24_08	78

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(25-130)
310-288174-16	FB-1_24_08	87
LB 500-782048/1-B	Method Blank	76
LCS 500-782096/2-A	Lab Control Sample	89
LCSD 500-782096/3-A	Lab Control Sample Dup	89
MB 500-782096/1-A	Method Blank	71

Surrogate Legend

DCPAA = DCAA

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Method: 8151A - Herbicides (GC)

Matrix: Water
Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)								
		DCPAA1								
Lab Sample ID	Client Sample ID	(25-130)								
310-287909-A-5-H MS	Matrix Spike	89								

Surrogate Legend

DCPAA = DCAA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-430513/5
Matrix: Water
Analysis Batch: 430513

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 02:11	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 02:11	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 02:11	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 02:11	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 02:11	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 02:11	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 02:11	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 02:11	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 02:11	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 02:11	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 02:11	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 02:11	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/16/24 02:11	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 02:11	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 02:11	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 02:11	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 02:11	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 02:11	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 02:11	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 02:11	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 02:11	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 02:11	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 02:11	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 02:11	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 02:11	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 02:11	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 02:11	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 02:11	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 02:11	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 02:11	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 02:11	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 02:11	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 02:11	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 02:11	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 02:11	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 02:11	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 02:11	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 02:11	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 02:11	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 02:11	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 02:11	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 02:11	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 02:11	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 02:11	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 02:11	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 02:11	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 02:11	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 02:11	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-430513/5
Matrix: Water
Analysis Batch: 430513

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*08/16/24 02:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/24 02:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/16/24 02:11*	*1*

Lab Sample ID: LCS 310-430513/6
Matrix: Water
Analysis Batch: 430513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.53		ug/L		98	71 - 120
1,1,1-Trichloroethane	20.0	19.78		ug/L		99	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.78		ug/L		99	68 - 124
1,1,2-Trichloroethane	20.0	19.54		ug/L		98	73 - 123
1,1-Dichloroethane	20.0	20.87		ug/L		104	70 - 127
1,1-Dichloroethene	20.0	21.27		ug/L		106	63 - 132
1,2,3-Trichloropropane	20.0	19.66		ug/L		98	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	18.59		ug/L		93	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.06		ug/L		100	75 - 125
1,2-Dichlorobenzene	20.0	20.14		ug/L		101	74 - 120
1,2-Dichloroethane	20.0	17.98		ug/L		90	71 - 125
1,2-Dichloropropane	20.0	21.74		ug/L		109	73 - 124
1,4-Dichlorobenzene	20.0	20.30		ug/L		101	72 - 120
2-Butanone (MEK)	40.0	39.86		ug/L		100	50 - 150
2-Hexanone	40.0	39.83		ug/L		100	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	40.47		ug/L		101	60 - 139
Acetone	40.0	35.89		ug/L		90	50 - 150
Acrylonitrile	200	207.0		ug/L		103	50 - 150
Benzene	20.0	21.30		ug/L		107	72 - 124
Bromochloromethane	20.0	20.96		ug/L		105	73 - 130
Bromodichloromethane	20.0	19.04		ug/L		95	74 - 122
Bromoform	20.0	18.95		ug/L		95	61 - 122
Carbon disulfide	20.0	21.66		ug/L		108	59 - 135
Carbon tetrachloride	20.0	20.63		ug/L		103	67 - 132
Chlorobenzene	20.0	20.35		ug/L		102	76 - 120
Chlorodibromomethane	20.0	19.55		ug/L		98	71 - 121
Chloroform	20.0	18.79		ug/L		94	72 - 125
cis-1,2-Dichloroethene	20.0	20.27		ug/L		101	74 - 123
cis-1,3-Dichloropropene	20.0	20.89		ug/L		104	71 - 125
Dibromomethane	20.0	19.02		ug/L		95	74 - 125
Ethylbenzene	20.0	20.96		ug/L		105	74 - 122
Iodomethane	20.0	17.72		ug/L		89	10 - 150
Methylene Chloride	20.0	21.63		ug/L		108	50 - 150
Styrene	20.0	21.34		ug/L		107	74 - 121
Tetrachloroethene	20.0	22.03		ug/L		110	71 - 130
Toluene	20.0	21.18		ug/L		106	74 - 123
trans-1,2-Dichloroethene	20.0	20.48		ug/L		102	70 - 126
trans-1,3-Dichloropropene	20.0	19.69		ug/L		98	69 - 123
trans-1,4-Dichloro-2-butene	20.0	18.86		ug/L		94	50 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-430513/6
Matrix: Water
Analysis Batch: 430513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	20.0	21.75		ug/L		109	72 - 126
Vinyl acetate	40.0	38.61		ug/L		97	50 - 150
Xylenes, Total	40.0	42.07		ug/L		105	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: LCS 310-430513/7
Matrix: Water
Analysis Batch: 430513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.05		ug/L		70	23 - 150
Chloroethane	20.0	20.37		ug/L		102	54 - 136
Chloromethane	20.0	21.34		ug/L		107	38 - 150
Trichlorofluoromethane	20.0	21.71		ug/L		109	54 - 149
Vinyl chloride	20.0	21.72		ug/L		109	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: 310-288174-1 MS
Matrix: Ground Water
Analysis Batch: 430513

Client Sample ID: AW-1_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.380		20.0	18.63		ug/L		93	55 - 130
1,1,1-Trichloroethane	<0.190		20.0	17.25		ug/L		86	52 - 130
1,1,2,2-Tetrachloroethane	<0.470		20.0	20.02		ug/L		100	54 - 130
1,1,2-Trichloroethane	<0.450		20.0	19.11		ug/L		96	58 - 130
1,1-Dichloroethane	0.443	J	20.0	19.21		ug/L		94	49 - 130
1,1-Dichloroethene	<0.560		20.0	19.08		ug/L		95	37 - 132
1,2,3-Trichloropropane	<0.590		20.0	19.77		ug/L		99	49 - 130
1,2-Dibromo-3-Chloropropane	<1.20		20.0	19.34		ug/L		97	38 - 150
1,2-Dibromoethane (EDB)	<0.340		20.0	19.29		ug/L		96	60 - 130
1,2-Dichlorobenzene	0.574	J	20.0	20.35		ug/L		99	59 - 130
1,2-Dichloroethane	<0.390		20.0	17.07		ug/L		85	51 - 130
1,2-Dichloropropane	<0.270		20.0	20.30		ug/L		101	57 - 130
1,4-Dichlorobenzene	1.26		20.0	20.18		ug/L		95	57 - 130
2-Butanone (MEK)	<2.10		40.0	40.29		ug/L		101	38 - 150
2-Hexanone	<2.00		40.0	41.40		ug/L		104	46 - 140
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	41.55		ug/L		104	47 - 139
Acetone	<3.10		40.0	37.36		ug/L		93	31 - 150
Acrylonitrile	<2.20		200	207.7		ug/L		104	40 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288174-1 MS
Matrix: Ground Water
Analysis Batch: 430513

Client Sample ID: AW-1_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.330	J	20.0	19.77		ug/L		97	46 - 130
Bromochloromethane	<0.540		20.0	19.63		ug/L		98	57 - 130
Bromodichloromethane	<0.390		20.0	17.93		ug/L		90	57 - 130
Bromoform	<0.780		20.0	18.51		ug/L		93	44 - 130
Carbon disulfide	<0.450		20.0	20.64		ug/L		103	38 - 135
Carbon tetrachloride	<0.650		20.0	17.81		ug/L		89	45 - 132
Chlorobenzene	5.70		20.0	24.21		ug/L		93	59 - 130
Chlorodibromomethane	<0.750		20.0	18.77		ug/L		94	54 - 130
Chloroform	<1.30		20.0	17.40		ug/L		87	51 - 130
cis-1,2-Dichloroethene	0.756	J	20.0	19.26		ug/L		93	45 - 130
cis-1,3-Dichloropropene	<0.250		20.0	19.00		ug/L		95	53 - 130
Dibromomethane	<0.330		20.0	18.26		ug/L		91	59 - 130
Ethylbenzene	<0.310		20.0	18.78		ug/L		94	45 - 130
Iodomethane	<7.00		20.0	15.87		ug/L		79	10 - 150
Methylene Chloride	<1.70		20.0	20.02		ug/L		100	37 - 150
Styrene	<0.370		20.0	20.00		ug/L		100	47 - 130
Tetrachloroethene	<0.480		20.0	19.31		ug/L		97	47 - 130
Toluene	<0.430		20.0	19.24		ug/L		96	51 - 130
trans-1,2-Dichloroethene	<0.270		20.0	18.84		ug/L		94	48 - 130
trans-1,3-Dichloropropene	<0.560		20.0	18.13		ug/L		91	50 - 130
trans-1,4-Dichloro-2-butene	<1.10		20.0	15.51		ug/L		78	26 - 150
Trichloroethene	<0.430		20.0	19.41		ug/L		97	51 - 130
Vinyl acetate	<2.50		40.0	34.92		ug/L		87	29 - 150
Xylenes, Total	<0.400		40.0	38.98		ug/L		97	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: 310-288174-1 MSD
Matrix: Ground Water
Analysis Batch: 430513

Client Sample ID: AW-1_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		20.0	18.87		ug/L		94	55 - 130	1	20
1,1,1-Trichloroethane	<0.190		20.0	16.93		ug/L		85	52 - 130	2	20
1,1,2,2-Tetrachloroethane	<0.470		20.0	20.09		ug/L		100	54 - 130	0	20
1,1,2-Trichloroethane	<0.450		20.0	19.16		ug/L		96	58 - 130	0	20
1,1-Dichloroethane	0.443	J	20.0	18.62		ug/L		91	49 - 130	3	20
1,1-Dichloroethene	<0.560		20.0	18.06		ug/L		90	37 - 132	5	26
1,2,3-Trichloropropane	<0.590		20.0	20.20		ug/L		101	49 - 130	2	26
1,2-Dibromo-3-Chloropropane	<1.20		20.0	20.10		ug/L		101	38 - 150	4	20
1,2-Dibromoethane (EDB)	<0.340		20.0	19.51		ug/L		98	60 - 130	1	20
1,2-Dichlorobenzene	0.574	J	20.0	20.27		ug/L		98	59 - 130	0	20
1,2-Dichloroethane	<0.390		20.0	16.79		ug/L		84	51 - 130	2	20
1,2-Dichloropropane	<0.270		20.0	20.06		ug/L		100	57 - 130	1	20
1,4-Dichlorobenzene	1.26		20.0	20.34		ug/L		95	57 - 130	1	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288174-1 MSD
Matrix: Ground Water
Analysis Batch: 430513

Client Sample ID: AW-1_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	<2.10		40.0	40.62		ug/L		102	38 - 150	1	20
2-Hexanone	<2.00		40.0	41.25		ug/L		103	46 - 140	0	20
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	42.16		ug/L		105	47 - 139	1	20
Acetone	<3.10		40.0	37.11		ug/L		93	31 - 150	1	29
Acrylonitrile	<2.20		200	200.1		ug/L		100	40 - 150	4	20
Benzene	0.330	J	20.0	19.41		ug/L		95	46 - 130	2	20
Bromochloromethane	<0.540		20.0	19.01		ug/L		95	57 - 130	3	20
Bromodichloromethane	<0.390		20.0	17.65		ug/L		88	57 - 130	2	20
Bromoform	<0.780		20.0	18.50		ug/L		92	44 - 130	0	20
Carbon disulfide	<0.450		20.0	18.73		ug/L		94	38 - 135	10	30
Carbon tetrachloride	<0.650		20.0	17.44		ug/L		87	45 - 132	2	20
Chlorobenzene	5.70		20.0	23.63		ug/L		90	59 - 130	2	20
Chlorodibromomethane	<0.750		20.0	18.85		ug/L		94	54 - 130	0	20
Chloroform	<1.30		20.0	16.96		ug/L		85	51 - 130	3	20
cis-1,2-Dichloroethene	0.756	J	20.0	18.58		ug/L		89	45 - 130	4	20
cis-1,3-Dichloropropene	<0.250		20.0	18.91		ug/L		95	53 - 130	0	20
Dibromomethane	<0.330		20.0	18.03		ug/L		90	59 - 130	1	20
Ethylbenzene	<0.310		20.0	18.76		ug/L		94	45 - 130	0	20
Iodomethane	<7.00		20.0	16.48		ug/L		82	10 - 150	4	35
Methylene Chloride	<1.70		20.0	19.28		ug/L		96	37 - 150	4	24
Styrene	<0.370		20.0	19.53		ug/L		98	47 - 130	2	20
Tetrachloroethene	<0.480		20.0	19.19		ug/L		96	47 - 130	1	20
Toluene	<0.430		20.0	18.71		ug/L		94	51 - 130	3	20
trans-1,2-Dichloroethene	<0.270		20.0	18.07		ug/L		90	48 - 130	4	22
trans-1,3-Dichloropropene	<0.560		20.0	18.19		ug/L		91	50 - 130	0	20
trans-1,4-Dichloro-2-butene	<1.10		20.0	17.01		ug/L		85	26 - 150	9	23
Trichloroethene	<0.430		20.0	18.95		ug/L		95	51 - 130	2	20
Vinyl acetate	<2.50		40.0	35.18		ug/L		88	29 - 150	1	23
Xylenes, Total	<0.400		40.0	37.98		ug/L		95	43 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 310-430579/5
Matrix: Water
Analysis Batch: 430579

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/16/24 11:08	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/16/24 11:08	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/16/24 11:08	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/16/24 11:08	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/16/24 11:08	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/16/24 11:08	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/16/24 11:08	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/16/24 11:08	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-430579/5
Matrix: Water
Analysis Batch: 430579

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/16/24 11:08	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/16/24 11:08	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/16/24 11:08	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/16/24 11:08	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/16/24 11:08	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/16/24 11:08	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/16/24 11:08	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/16/24 11:08	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/16/24 11:08	1
Acetone	<3.10		10.0	3.10	ug/L			08/16/24 11:08	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/16/24 11:08	1
Benzene	<0.220		0.500	0.220	ug/L			08/16/24 11:08	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/16/24 11:08	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/16/24 11:08	1
Bromoform	<0.780		5.00	0.780	ug/L			08/16/24 11:08	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/16/24 11:08	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/16/24 11:08	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/16/24 11:08	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/16/24 11:08	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/16/24 11:08	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/16/24 11:08	1
Chloroform	<1.30		3.00	1.30	ug/L			08/16/24 11:08	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/16/24 11:08	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/16/24 11:08	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/16/24 11:08	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/16/24 11:08	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/16/24 11:08	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/16/24 11:08	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/16/24 11:08	1
Styrene	<0.370		1.00	0.370	ug/L			08/16/24 11:08	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/16/24 11:08	1
Toluene	<0.430		1.00	0.430	ug/L			08/16/24 11:08	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/16/24 11:08	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/16/24 11:08	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/16/24 11:08	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/16/24 11:08	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/16/24 11:08	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/16/24 11:08	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/16/24 11:08	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/16/24 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*08/16/24 11:08*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/16/24 11:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/16/24 11:08*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-430579/6
Matrix: Water
Analysis Batch: 430579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.44		ug/L		97	71 - 120
1,1,1-Trichloroethane	20.0	22.26		ug/L		111	73 - 129
1,1,2,2-Tetrachloroethane	20.0	20.32		ug/L		102	68 - 124
1,1,2-Trichloroethane	20.0	22.17		ug/L		111	73 - 123
1,1-Dichloroethane	20.0	21.91		ug/L		110	70 - 127
1,1-Dichloroethene	20.0	25.08		ug/L		125	63 - 132
1,2,3-Trichloropropane	20.0	19.86		ug/L		99	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	17.21		ug/L		86	50 - 150
1,2-Dibromoethane (EDB)	20.0	21.63		ug/L		108	75 - 125
1,2-Dichlorobenzene	20.0	20.01		ug/L		100	74 - 120
1,2-Dichloroethane	20.0	20.39		ug/L		102	71 - 125
1,2-Dichloropropane	20.0	22.69		ug/L		113	73 - 124
1,4-Dichlorobenzene	20.0	18.81		ug/L		94	72 - 120
2-Butanone (MEK)	40.0	45.19		ug/L		113	50 - 150
2-Hexanone	40.0	42.74		ug/L		107	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	44.06		ug/L		110	60 - 139
Acetone	40.0	44.79		ug/L		112	50 - 150
Acrylonitrile	200	214.9		ug/L		107	50 - 150
Benzene	20.0	22.35		ug/L		112	72 - 124
Bromochloromethane	20.0	22.63		ug/L		113	73 - 130
Bromodichloromethane	20.0	20.33		ug/L		102	74 - 122
Bromoform	20.0	18.33		ug/L		92	61 - 122
Carbon disulfide	20.0	25.60		ug/L		128	59 - 135
Carbon tetrachloride	20.0	20.61		ug/L		103	67 - 132
Chlorobenzene	20.0	20.19		ug/L		101	76 - 120
Chlorodibromomethane	20.0	21.04		ug/L		105	71 - 121
Chloroform	20.0	20.58		ug/L		103	72 - 125
cis-1,2-Dichloroethene	20.0	22.31		ug/L		112	74 - 123
cis-1,3-Dichloropropene	20.0	22.35		ug/L		112	71 - 125
Dibromomethane	20.0	20.79		ug/L		104	74 - 125
Ethylbenzene	20.0	21.42		ug/L		107	74 - 122
Iodomethane	20.0	23.58		ug/L		118	10 - 150
Methylene Chloride	20.0	23.02		ug/L		115	50 - 150
Styrene	20.0	21.14		ug/L		106	74 - 121
Tetrachloroethene	20.0	22.31		ug/L		112	71 - 130
Toluene	20.0	21.72		ug/L		109	74 - 123
trans-1,2-Dichloroethene	20.0	24.35		ug/L		122	70 - 126
trans-1,3-Dichloropropene	20.0	19.01		ug/L		95	69 - 123
trans-1,4-Dichloro-2-butene	20.0	15.75		ug/L		79	50 - 150
Trichloroethene	20.0	22.66		ug/L		113	72 - 126
Vinyl acetate	40.0	43.49		ug/L		109	50 - 150
Xylenes, Total	40.0	43.37		ug/L		108	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*96*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-430579/7
Matrix: Water
Analysis Batch: 430579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromomethane			20.0	20.85		ug/L		104	23 - 150		
Chloroethane			20.0	18.42		ug/L		92	54 - 136		
Chloromethane			20.0	20.13		ug/L		101	38 - 150		
Trichlorofluoromethane			20.0	17.66		ug/L		88	54 - 149		
Vinyl chloride			20.0	19.13		ug/L		96	56 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: 310-288195-E-1 MS
Matrix: Water
Analysis Batch: 430579

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1,2-Tetrachloroethane	<0.380		25.0	21.71		ug/L		87	55 - 130		
1,1,1-Trichloroethane	<0.190		25.0	24.19		ug/L		97	52 - 130		
1,1,2,2-Tetrachloroethane	<0.470		25.0	26.05		ug/L		104	54 - 130		
1,1,2-Trichloroethane	<0.450		25.0	26.20		ug/L		105	58 - 130		
1,1-Dichloroethane	<0.220		25.0	26.00		ug/L		104	49 - 130		
1,1-Dichloroethene	<0.560		25.0	28.03		ug/L		112	37 - 132		
1,2,3-Trichloropropane	<0.590		25.0	24.54		ug/L		98	49 - 130		
1,2-Dibromo-3-Chloropropane	<1.20		25.0	23.89		ug/L		96	38 - 150		
1,2-Dibromoethane (EDB)	<0.340		25.0	25.49		ug/L		102	60 - 130		
1,2-Dichlorobenzene	<0.370		25.0	24.76		ug/L		99	59 - 130		
1,2-Dichloroethane	<0.390		25.0	24.30		ug/L		97	51 - 130		
1,2-Dichloropropane	<0.270		25.0	27.12		ug/L		108	57 - 130		
1,4-Dichlorobenzene	<0.230		25.0	22.89		ug/L		92	57 - 130		
2-Butanone (MEK)	<2.10		50.0	49.01		ug/L		98	38 - 150		
2-Hexanone	<2.00		50.0	55.14		ug/L		110	46 - 140		
4-Methyl-2-pentanone (MIBK)	<2.10		50.0	55.34		ug/L		111	47 - 139		
Acetone	<3.10		50.0	51.54		ug/L		103	31 - 150		
Acrylonitrile	<2.20		250	262.5		ug/L		105	40 - 150		
Benzene	<0.220		25.0	25.86		ug/L		103	46 - 130		
Bromochloromethane	<0.540		25.0	26.97		ug/L		108	57 - 130		
Bromodichloromethane	<0.390		25.0	23.87		ug/L		95	57 - 130		
Bromoform	<0.780		25.0	22.47		ug/L		90	44 - 130		
Carbon disulfide	<0.450		25.0	30.59		ug/L		122	38 - 135		
Carbon tetrachloride	<0.650		25.0	20.94		ug/L		84	45 - 132		
Chlorobenzene	<0.400		25.0	22.89		ug/L		92	59 - 130		
Chlorodibromomethane	<0.750		25.0	24.71		ug/L		99	54 - 130		
Chloroform	<1.30		25.0	23.71		ug/L		95	51 - 130		
cis-1,2-Dichloroethene	<0.210		25.0	26.04		ug/L		104	45 - 130		
cis-1,3-Dichloropropene	<0.250		25.0	26.25		ug/L		105	53 - 130		
Dibromomethane	<0.330		25.0	24.73		ug/L		99	59 - 130		
Ethylbenzene	<0.310		25.0	23.27		ug/L		93	45 - 130		
Iodomethane	<7.00		25.0	24.10		ug/L		96	10 - 150		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288195-E-1 MS
Matrix: Water
Analysis Batch: 430579

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	<1.70		25.0	26.72		ug/L		107	37 - 150
Styrene	<0.370		25.0	24.18		ug/L		97	47 - 130
Tetrachloroethene	<0.480		25.0	22.83		ug/L		91	47 - 130
Toluene	<0.430		25.0	24.94		ug/L		100	51 - 130
trans-1,2-Dichloroethene	<0.270		25.0	27.86		ug/L		111	48 - 130
trans-1,3-Dichloropropene	<0.560		25.0	22.67		ug/L		91	50 - 130
trans-1,4-Dichloro-2-butene	<1.10		25.0	19.77		ug/L		79	26 - 150
Trichloroethene	<0.430		25.0	25.66		ug/L		103	51 - 130
Vinyl acetate	<2.50		50.0	45.12		ug/L		90	29 - 150
Xylenes, Total	<0.400		50.0	48.37		ug/L		97	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: 310-288195-E-1 MSD
Matrix: Water
Analysis Batch: 430579

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		25.0	22.16		ug/L		89	55 - 130	2	20
1,1,1-Trichloroethane	<0.190		25.0	24.39		ug/L		98	52 - 130	1	20
1,1,2,2-Tetrachloroethane	<0.470		25.0	25.62		ug/L		102	54 - 130	2	20
1,1,2-Trichloroethane	<0.450		25.0	26.43		ug/L		106	58 - 130	1	20
1,1-Dichloroethane	<0.220		25.0	26.08		ug/L		104	49 - 130	0	20
1,1-Dichloroethene	<0.560		25.0	27.09		ug/L		108	37 - 132	3	26
1,2,3-Trichloropropane	<0.590		25.0	25.00		ug/L		100	49 - 130	2	26
1,2-Dibromo-3-Chloropropane	<1.20		25.0	24.65		ug/L		99	38 - 150	3	20
1,2-Dibromoethane (EDB)	<0.340		25.0	25.04		ug/L		100	60 - 130	2	20
1,2-Dichlorobenzene	<0.370		25.0	24.64		ug/L		99	59 - 130	0	20
1,2-Dichloroethane	<0.390		25.0	23.60		ug/L		94	51 - 130	3	20
1,2-Dichloropropane	<0.270		25.0	26.65		ug/L		107	57 - 130	2	20
1,4-Dichlorobenzene	<0.230		25.0	22.86		ug/L		91	57 - 130	0	20
2-Butanone (MEK)	<2.10		50.0	51.17		ug/L		102	38 - 150	4	20
2-Hexanone	<2.00		50.0	56.26		ug/L		113	46 - 140	2	20
4-Methyl-2-pentanone (MIBK)	<2.10		50.0	57.01		ug/L		114	47 - 139	3	20
Acetone	<3.10		50.0	51.37		ug/L		103	31 - 150	0	29
Acrylonitrile	<2.20		250	264.8		ug/L		106	40 - 150	1	20
Benzene	<0.220		25.0	25.34		ug/L		101	46 - 130	2	20
Bromochloromethane	<0.540		25.0	25.93		ug/L		104	57 - 130	4	20
Bromodichloromethane	<0.390		25.0	24.10		ug/L		96	57 - 130	1	20
Bromoform	<0.780		25.0	21.93		ug/L		88	44 - 130	2	20
Carbon disulfide	<0.450		25.0	27.43		ug/L		110	38 - 135	11	30
Carbon tetrachloride	<0.650		25.0	21.05		ug/L		84	45 - 132	1	20
Chlorobenzene	<0.400		25.0	22.59		ug/L		90	59 - 130	1	20
Chlorodibromomethane	<0.750		25.0	24.67		ug/L		99	54 - 130	0	20
Chloroform	<1.30		25.0	22.96		ug/L		92	51 - 130	3	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288195-E-1 MSD
Matrix: Water
Analysis Batch: 430579

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	<0.210		25.0	25.89		ug/L		104	45 - 130	1	20
cis-1,3-Dichloropropene	<0.250		25.0	25.68		ug/L		103	53 - 130	2	20
Dibromomethane	<0.330		25.0	25.07		ug/L		100	59 - 130	1	20
Ethylbenzene	<0.310		25.0	23.11		ug/L		92	45 - 130	1	20
Iodomethane	<7.00		25.0	26.01		ug/L		104	10 - 150	8	35
Methylene Chloride	<1.70		25.0	25.98		ug/L		104	37 - 150	3	24
Styrene	<0.370		25.0	23.54		ug/L		94	47 - 130	3	20
Tetrachloroethene	<0.480		25.0	23.26		ug/L		93	47 - 130	2	20
Toluene	<0.430		25.0	24.26		ug/L		97	51 - 130	3	20
trans-1,2-Dichloroethene	<0.270		25.0	26.93		ug/L		108	48 - 130	3	22
trans-1,3-Dichloropropene	<0.560		25.0	22.72		ug/L		91	50 - 130	0	20
trans-1,4-Dichloro-2-butene	<1.10		25.0	20.88		ug/L		84	26 - 150	5	23
Trichloroethene	<0.430		25.0	25.11		ug/L		100	51 - 130	2	20
Vinyl acetate	<2.50		50.0	48.60		ug/L		97	29 - 150	7	23
Xylenes, Total	<0.400		50.0	48.12		ug/L		96	43 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 310-430752/5
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/19/24 11:32	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/19/24 11:32	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/19/24 11:32	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/19/24 11:32	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/19/24 11:32	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/19/24 11:32	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/19/24 11:32	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/19/24 11:32	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/19/24 11:32	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/19/24 11:32	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/19/24 11:32	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/19/24 11:32	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/19/24 11:32	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/19/24 11:32	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/19/24 11:32	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/19/24 11:32	1
Acetone	<3.10		10.0	3.10	ug/L			08/19/24 11:32	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/19/24 11:32	1
Benzene	<0.220		0.500	0.220	ug/L			08/19/24 11:32	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/19/24 11:32	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/19/24 11:32	1
Bromoform	<0.780		5.00	0.780	ug/L			08/19/24 11:32	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-430752/5
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<1.10		4.00	1.10	ug/L			08/19/24 11:32	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/19/24 11:32	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/19/24 11:32	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/19/24 11:32	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/19/24 11:32	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/19/24 11:32	1
Chloroform	<1.30		3.00	1.30	ug/L			08/19/24 11:32	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/19/24 11:32	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/19/24 11:32	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/19/24 11:32	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/19/24 11:32	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/19/24 11:32	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/19/24 11:32	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/19/24 11:32	1
Styrene	<0.370		1.00	0.370	ug/L			08/19/24 11:32	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/19/24 11:32	1
Toluene	<0.430		1.00	0.430	ug/L			08/19/24 11:32	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/19/24 11:32	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/19/24 11:32	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/19/24 11:32	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/19/24 11:32	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/19/24 11:32	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/19/24 11:32	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/19/24 11:32	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/19/24 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*73 - 130*		*08/19/24 11:32*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/19/24 11:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/19/24 11:32*	*1*

Lab Sample ID: LCS 310-430752/6
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	23.47		ug/L		117	71 - 120
1,1,1-Trichloroethane	20.0	19.60		ug/L		98	73 - 129
1,1,2,2-Tetrachloroethane	20.0	22.05		ug/L		110	68 - 124
1,1,2-Trichloroethane	20.0	22.88		ug/L		114	73 - 123
1,1-Dichloroethane	20.0	19.31		ug/L		97	70 - 127
1,1-Dichloroethene	20.0	18.92		ug/L		95	63 - 132
1,2,3-Trichloropropane	20.0	22.26		ug/L		111	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	21.79		ug/L		109	50 - 150
1,2-Dibromoethane (EDB)	20.0	23.43		ug/L		117	75 - 125
1,2-Dichlorobenzene	20.0	22.29		ug/L		111	74 - 120
1,2-Dichloroethane	20.0	18.69		ug/L		93	71 - 125
1,2-Dichloropropane	20.0	23.01		ug/L		115	73 - 124

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-430752/6
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	20.0	22.44		ug/L		112	72 - 120
2-Butanone (MEK)	40.0	39.65		ug/L		99	50 - 150
2-Hexanone	40.0	44.85		ug/L		112	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	45.20		ug/L		113	60 - 139
Acetone	40.0	33.94		ug/L		85	50 - 150
Acrylonitrile	200	202.0		ug/L		101	50 - 150
Benzene	20.0	20.96		ug/L		105	72 - 124
Bromochloromethane	20.0	20.67		ug/L		103	73 - 130
Bromodichloromethane	20.0	21.78		ug/L		109	74 - 122
Bromoform	20.0	23.60		ug/L		118	61 - 122
Carbon disulfide	20.0	17.98		ug/L		90	59 - 135
Carbon tetrachloride	20.0	21.16		ug/L		106	67 - 132
Chlorobenzene	20.0	22.75		ug/L		114	76 - 120
Chlorodibromomethane	20.0	23.96		ug/L		120	71 - 121
Chloroform	20.0	19.47		ug/L		97	72 - 125
cis-1,2-Dichloroethene	20.0	19.65		ug/L		98	74 - 123
cis-1,3-Dichloropropene	20.0	23.86		ug/L		119	71 - 125
Dibromomethane	20.0	20.88		ug/L		104	74 - 125
Ethylbenzene	20.0	23.01		ug/L		115	74 - 122
Iodomethane	20.0	13.33		ug/L		67	10 - 150
Methylene Chloride	20.0	19.47		ug/L		97	50 - 150
Styrene	20.0	23.90		ug/L		119	74 - 121
Tetrachloroethene	20.0	23.77		ug/L		119	71 - 130
Toluene	20.0	22.09		ug/L		110	74 - 123
trans-1,2-Dichloroethene	20.0	19.27		ug/L		96	70 - 126
trans-1,3-Dichloropropene	20.0	23.71		ug/L		119	69 - 123
trans-1,4-Dichloro-2-butene	20.0	20.80		ug/L		104	50 - 150
Trichloroethene	20.0	22.72		ug/L		114	72 - 126
Vinyl acetate	40.0	39.38		ug/L		98	50 - 150
Xylenes, Total	40.0	46.79		ug/L		117	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCS 310-430752/7
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	13.33		ug/L		67	23 - 150
Chloroethane	20.0	18.95		ug/L		95	54 - 136
Chloromethane	20.0	19.35		ug/L		97	38 - 150
Trichlorofluoromethane	20.0	20.42		ug/L		102	54 - 149
Vinyl chloride	20.0	19.61		ug/L		98	56 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-430752/7
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*113*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: 310-288236-D-1 MS
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.380		20.0	17.50		ug/L		88	55 - 130
1,1,1-Trichloroethane	<0.190		20.0	16.73		ug/L		84	52 - 130
1,1,2,2-Tetrachloroethane	<0.470		20.0	17.12		ug/L		86	54 - 130
1,1,2-Trichloroethane	<0.450		20.0	17.88		ug/L		89	58 - 130
1,1-Dichloroethane	<0.220		20.0	17.69		ug/L		88	49 - 130
1,1-Dichloroethene	<0.560		20.0	17.06		ug/L		85	37 - 132
1,2,3-Trichloropropane	<0.590		20.0	16.93		ug/L		85	49 - 130
1,2-Dibromo-3-Chloropropane	<1.20		20.0	15.66		ug/L		78	38 - 150
1,2-Dibromoethane (EDB)	<0.340		20.0	18.22		ug/L		91	60 - 130
1,2-Dichlorobenzene	<0.370		20.0	17.86		ug/L		89	59 - 130
1,2-Dichloroethane	<0.390		20.0	16.28		ug/L		81	51 - 130
1,2-Dichloropropane	<0.270		20.0	19.52		ug/L		98	57 - 130
1,4-Dichlorobenzene	<0.230		20.0	18.38		ug/L		92	57 - 130
2-Butanone (MEK)	<2.10		40.0	33.06		ug/L		83	38 - 150
2-Hexanone	<2.00		40.0	32.56		ug/L		81	46 - 140
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	34.54		ug/L		86	47 - 139
Acetone	<3.10		40.0	28.46		ug/L		71	31 - 150
Acrylonitrile	<2.20		200	177.5		ug/L		89	40 - 150
Benzene	<0.220		20.0	18.37		ug/L		92	46 - 130
Bromochloromethane	<0.540		20.0	19.12		ug/L		96	57 - 130
Bromodichloromethane	<0.390		20.0	18.20		ug/L		91	57 - 130
Bromoform	<0.780		20.0	16.75		ug/L		84	44 - 130
Carbon disulfide	<0.450		20.0	17.22		ug/L		86	38 - 135
Carbon tetrachloride	<0.650		20.0	17.33		ug/L		87	45 - 132
Chlorobenzene	<0.400		20.0	18.96		ug/L		95	59 - 130
Chlorodibromomethane	<0.750		20.0	17.71		ug/L		89	54 - 130
Chloroform	<1.30		20.0	17.40		ug/L		87	51 - 130
cis-1,2-Dichloroethene	<0.210		20.0	17.89		ug/L		89	45 - 130
cis-1,3-Dichloropropene	<0.250		20.0	18.37		ug/L		92	53 - 130
Dibromomethane	<0.330		20.0	17.83		ug/L		89	59 - 130
Ethylbenzene	<0.310		20.0	19.36		ug/L		97	45 - 130
Iodomethane	<7.00		20.0	10.54		ug/L		53	10 - 150
Methylene Chloride	<1.70		20.0	18.35		ug/L		92	37 - 150
Styrene	<0.370		20.0	19.81		ug/L		99	47 - 130
Tetrachloroethene	<0.480		20.0	19.03		ug/L		95	47 - 130
Toluene	<0.430		20.0	18.64		ug/L		93	51 - 130
trans-1,2-Dichloroethene	<0.270		20.0	17.30		ug/L		87	48 - 130
trans-1,3-Dichloropropene	<0.560		20.0	18.33		ug/L		92	50 - 130
trans-1,4-Dichloro-2-butene	<1.10		20.0	15.16		ug/L		76	26 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288236-D-1 MS
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	<0.430		20.0	19.01		ug/L		95	51 - 130
Vinyl acetate	<2.50		40.0	30.93		ug/L		77	29 - 150
Xylenes, Total	<0.400		40.0	40.16		ug/L		100	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: 310-288236-D-1 MSD
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		20.0	18.31		ug/L		92	55 - 130	5	20
1,1,1-Trichloroethane	<0.190		20.0	16.31		ug/L		82	52 - 130	3	20
1,1,2,2-Tetrachloroethane	<0.470		20.0	17.59		ug/L		88	54 - 130	3	20
1,1,2-Trichloroethane	<0.450		20.0	18.50		ug/L		92	58 - 130	3	20
1,1-Dichloroethane	<0.220		20.0	17.37		ug/L		87	49 - 130	2	20
1,1-Dichloroethene	<0.560		20.0	16.26		ug/L		81	37 - 132	5	26
1,2,3-Trichloropropane	<0.590		20.0	17.81		ug/L		89	49 - 130	5	26
1,2-Dibromo-3-Chloropropane	<1.20		20.0	17.66		ug/L		88	38 - 150	12	20
1,2-Dibromoethane (EDB)	<0.340		20.0	18.63		ug/L		93	60 - 130	2	20
1,2-Dichlorobenzene	<0.370		20.0	19.05		ug/L		95	59 - 130	6	20
1,2-Dichloroethane	<0.390		20.0	16.06		ug/L		80	51 - 130	1	20
1,2-Dichloropropane	<0.270		20.0	19.65		ug/L		98	57 - 130	1	20
1,4-Dichlorobenzene	<0.230		20.0	18.79		ug/L		94	57 - 130	2	20
2-Butanone (MEK)	<2.10		40.0	31.80		ug/L		80	38 - 150	4	20
2-Hexanone	<2.00		40.0	34.97		ug/L		87	46 - 140	7	20
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	35.33		ug/L		88	47 - 139	2	20
Acetone	<3.10		40.0	28.17		ug/L		70	31 - 150	1	29
Acrylonitrile	<2.20		200	177.1		ug/L		89	40 - 150	0	20
Benzene	<0.220		20.0	17.81		ug/L		89	46 - 130	3	20
Bromochloromethane	<0.540		20.0	18.41		ug/L		92	57 - 130	4	20
Bromodichloromethane	<0.390		20.0	18.13		ug/L		91	57 - 130	0	20
Bromoform	<0.780		20.0	17.63		ug/L		88	44 - 130	5	20
Carbon disulfide	<0.450		20.0	15.49		ug/L		77	38 - 135	11	30
Carbon tetrachloride	<0.650		20.0	16.81		ug/L		84	45 - 132	3	20
Chlorobenzene	<0.400		20.0	18.72		ug/L		94	59 - 130	1	20
Chlorodibromomethane	<0.750		20.0	18.22		ug/L		91	54 - 130	3	20
Chloroform	<1.30		20.0	17.00		ug/L		85	51 - 130	2	20
cis-1,2-Dichloroethene	<0.210		20.0	17.31		ug/L		87	45 - 130	3	20
cis-1,3-Dichloropropene	<0.250		20.0	18.56		ug/L		93	53 - 130	1	20
Dibromomethane	<0.330		20.0	17.79		ug/L		89	59 - 130	0	20
Ethylbenzene	<0.310		20.0	18.99		ug/L		95	45 - 130	2	20
Iodomethane	<7.00		20.0	12.40		ug/L		62	10 - 150	16	35
Methylene Chloride	<1.70		20.0	17.43		ug/L		87	37 - 150	5	24
Styrene	<0.370		20.0	19.83		ug/L		99	47 - 130	0	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288236-D-1 MSD
Matrix: Water
Analysis Batch: 430752

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	<0.480		20.0	19.13		ug/L		96	47 - 130	1	20
Toluene	<0.430		20.0	18.42		ug/L		92	51 - 130	1	20
trans-1,2-Dichloroethene	<0.270		20.0	16.58		ug/L		83	48 - 130	4	22
trans-1,3-Dichloropropene	<0.560		20.0	18.60		ug/L		93	50 - 130	1	20
trans-1,4-Dichloro-2-butene	<1.10		20.0	16.49		ug/L		82	26 - 150	8	23
Trichloroethene	<0.430		20.0	18.57		ug/L		93	51 - 130	2	20
Vinyl acetate	<2.50		40.0	31.25		ug/L		78	29 - 150	1	23
Xylenes, Total	<0.400		40.0	39.55		ug/L		99	43 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-430561/1-A
Matrix: Water
Analysis Batch: 431323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/16/24 08:45	08/23/24 16:42	1
2,2'-Oxybis (1-chloropropane)	<0.540		10.0	0.540	ug/L		08/16/24 08:45	08/23/24 16:42	1
2,2'-oxybis(1-chloropropane)	<0.540		10.0	0.540	ug/L		08/16/24 08:45	08/23/24 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*60*		*25 - 110*	*08/16/24 08:45*	*08/23/24 16:42*	*1*
Phenol-d5 (Surr)	*60*		*21 - 110*	*08/16/24 08:45*	*08/23/24 16:42*	*1*
Nitrobenzene-d5 (Surr)	*77*		*45 - 129*	*08/16/24 08:45*	*08/23/24 16:42*	*1*
2-Fluorobiphenyl (Surr)	*67*		*39 - 118*	*08/16/24 08:45*	*08/23/24 16:42*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*27 - 136*	*08/16/24 08:45*	*08/23/24 16:42*	*1*
Terphenyl-d14 (Surr)	*90*		*12 - 144*	*08/16/24 08:45*	*08/23/24 16:42*	*1*

Lab Sample ID: LCS 310-430561/2-A
Matrix: Water
Analysis Batch: 431323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	100	98.16		ug/L		98	43 - 143
2,2'-Oxybis (1-chloropropane)	100	67.85		ug/L		68	34 - 123
2,2'-oxybis(1-chloropropane)	100	67.85		ug/L		68	34 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*61*		*25 - 110*
Phenol-d5 (Surr)	*60*		*21 - 110*
Nitrobenzene-d5 (Surr)	*81*		*45 - 129*
2-Fluorobiphenyl (Surr)	*75*		*39 - 118*
2,4,6-Tribromophenol (Surr)	*87*		*27 - 136*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-430561/2-A
Matrix: Water
Analysis Batch: 431323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430561

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14 (Surr)	*97*		*12 - 144*

Lab Sample ID: LCSD 310-430561/3-A
Matrix: Water
Analysis Batch: 431323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 430561

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			100	84.65		ug/L		85	43 - 143	15	35
2,2'-Oxybis (1-chloropropane)			100	52.65		ug/L		53	34 - 123	25	35
2,2'-oxybis(1-chloropropane)			100	52.65		ug/L		53	34 - 123	25	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	*58*		*25 - 110*
Phenol-d5 (Surr)	*57*		*21 - 110*
Nitrobenzene-d5 (Surr)	*76*		*45 - 129*
2-Fluorobiphenyl (Surr)	*72*		*39 - 118*
2,4,6-Tribromophenol (Surr)	*79*		*27 - 136*
Terphenyl-d14 (Surr)	*89*		*12 - 144*

Lab Sample ID: MB 310-430787/1-A
Matrix: Water
Analysis Batch: 431424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m & p-Cresol	<0.700		10.0	0.700	ug/L		08/19/24 13:19	08/26/24 16:16	1
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/19/24 13:19	08/26/24 16:16	1
Di-n-butyl phthalate	<5.60		10.0	5.60	ug/L		08/19/24 13:19	08/26/24 16:16	1
Phenol	<1.10		10.0	1.10	ug/L		08/19/24 13:19	08/26/24 16:16	1
2,2'-oxybis(1-chloropropane)	<0.540		10.0	0.540	ug/L		08/19/24 13:19	08/26/24 16:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*52*		*25 - 110*	*08/19/24 13:19*	*08/26/24 16:16*	*1*
Phenol-d5 (Surr)	*51*		*21 - 110*	*08/19/24 13:19*	*08/26/24 16:16*	*1*
Nitrobenzene-d5 (Surr)	*68*		*45 - 129*	*08/19/24 13:19*	*08/26/24 16:16*	*1*
2-Fluorobiphenyl (Surr)	*61*		*39 - 118*	*08/19/24 13:19*	*08/26/24 16:16*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*27 - 136*	*08/19/24 13:19*	*08/26/24 16:16*	*1*
Terphenyl-d14 (Surr)	*77*		*12 - 144*	*08/19/24 13:19*	*08/26/24 16:16*	*1*

Lab Sample ID: LCS 310-430787/2-A
Matrix: Water
Analysis Batch: 431424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430787

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m & p-Cresol			100	59.33		ug/L		59	46 - 117		
Bis(2-ethylhexyl) phthalate			100	60.47		ug/L		60	43 - 143		
Di-n-butyl phthalate			100	67.38		ug/L		67	50 - 133		
Phenol			100	40.33		ug/L		40	29 - 110		
2,2'-oxybis(1-chloropropane)			100	51.73		ug/L		52	34 - 123		

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	47		25 - 110
Phenol-d5 (Surr)	44		21 - 110
Nitrobenzene-d5 (Surr)	58		45 - 129
2-Fluorobiphenyl (Surr)	53		39 - 118
2,4,6-Tribromophenol (Surr)	53		27 - 136
Terphenyl-d14 (Surr)	65		12 - 144

Lab Sample ID: LCSD 310-430787/3-A
Matrix: Water
Analysis Batch: 431424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 430787

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m & p-Cresol			100	61.92		ug/L		62	46 - 117	4	35
Bis(2-ethylhexyl) phthalate			100	61.58		ug/L		62	43 - 143	2	35
Di-n-butyl phthalate			100	70.33		ug/L		70	50 - 133	4	35
Phenol			100	42.61		ug/L		43	29 - 110	6	35
2,2'-oxybis(1-chloropropane)			100	50.66		ug/L		51	34 - 123	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	53		25 - 110
Phenol-d5 (Surr)	51		21 - 110
Nitrobenzene-d5 (Surr)	66		45 - 129
2-Fluorobiphenyl (Surr)	62		39 - 118
2,4,6-Tribromophenol (Surr)	63		27 - 136
Terphenyl-d14 (Surr)	75		12 - 144

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-430798/1-A
Matrix: Water
Analysis Batch: 431000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0290		0.0640	0.0290	ug/L		08/19/24 15:32	08/21/24 12:12	1
beta-BHC	<0.0370		0.0640	0.0370	ug/L		08/19/24 15:32	08/21/24 12:12	1
4,4'-DDT	<0.0420		0.0640	0.0420	ug/L		08/19/24 15:32	08/21/24 12:12	1
delta-BHC	<0.0270		0.0640	0.0270	ug/L		08/19/24 15:32	08/21/24 12:12	1
Dieldrin	<0.0260		0.0640	0.0260	ug/L		08/19/24 15:32	08/21/24 12:12	1
Heptachlor	<0.0330		0.0640	0.0330	ug/L		08/19/24 15:32	08/21/24 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		10 - 136	08/19/24 15:32	08/21/24 12:12	1
Tetrachloro-m-xylene	55		10 - 130	08/19/24 15:32	08/21/24 12:12	1

Lab Sample ID: LCS 310-430798/4-A
Matrix: Water
Analysis Batch: 431000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430798

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
alpha-BHC			1.00	0.9907		ug/L		99	36 - 127		
beta-BHC			1.00	1.045		ug/L		104	37 - 136		

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 310-430798/4-A
Matrix: Water
Analysis Batch: 431000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430798

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDT			1.00	0.9823		ug/L		98	23 - 150		
delta-BHC			1.00	0.9541		ug/L		95	33 - 134		
Dieldrin			1.00	1.056		ug/L		106	39 - 130		
Heptachlor			1.00	0.9466		ug/L		95	27 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*102*		*10 - 136*
Tetrachloro-m-xylene	*97*		*10 - 130*

Lab Sample ID: LCSD 310-430798/5-A
Matrix: Water
Analysis Batch: 431000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 430798

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
alpha-BHC			1.00	0.7702		ug/L		77	36 - 127	25	35
beta-BHC			1.00	0.7971		ug/L		80	37 - 136	27	35
4,4'-DDT			1.00	0.7406		ug/L		74	23 - 150	28	35
delta-BHC			1.00	0.7184		ug/L		72	33 - 134	28	35
Dieldrin			1.00	0.8020		ug/L		80	39 - 130	27	35
Heptachlor			1.00	0.7614		ug/L		76	27 - 120	22	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*10 - 136*
Tetrachloro-m-xylene	*73*		*10 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: LB 500-782048/1-B
Matrix: Water
Analysis Batch: 782607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782096

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<30.7		100	30.7	ug/L		08/19/24 08:19	08/21/24 14:30	1
2,4,5-TP	<8.34		100	8.34	ug/L		08/19/24 08:19	08/21/24 14:30	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*76*		*25 - 130*	*08/19/24 08:19*	*08/21/24 14:30*	*1*

Lab Sample ID: MB 500-782096/1-A
Matrix: Water
Analysis Batch: 782607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.307		1.00	0.307	ug/L		08/19/24 08:19	08/21/24 13:17	1
2,4,5-TP	<0.0834		1.00	0.0834	ug/L		08/19/24 08:19	08/21/24 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*71*		*25 - 130*	*08/19/24 08:19*	*08/21/24 13:17*	*1*

Method: 8151A - Herbicides (GC)

Lab Sample ID: LCS 500-782096/2-A
Matrix: Water
Analysis Batch: 782607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782096

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			10.1	9.253		ug/L		92	30 - 115		
2,4,5-TP			2.50	2.225		ug/L		89	32 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*89*		*25 - 130*

Lab Sample ID: LCSD 500-782096/3-A
Matrix: Water
Analysis Batch: 782607

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 782096

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			10.1	9.145		ug/L		91	30 - 115	1	20
2,4,5-TP			2.50	2.215		ug/L		89	32 - 115	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCAA	*89*		*25 - 130*

Lab Sample ID: 310-287909-A-5-H MS
Matrix: Water
Analysis Batch: 782607

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 782096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D	<30.7		1010	943.1		ug/L		94	30 - 115		
2,4,5-TP	<8.34		250	217.3		ug/L		87	32 - 115		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCAA	*89*		*25 - 130*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-430525/1-A
Matrix: Water
Analysis Batch: 431362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/16/24 09:15	08/23/24 19:20	1
Barium	<0.000660		0.00200	0.000660	mg/L		08/16/24 09:15	08/23/24 19:20	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/16/24 09:15	08/23/24 19:20	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/16/24 09:15	08/23/24 19:20	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/16/24 09:15	08/23/24 19:20	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/16/24 09:15	08/23/24 19:20	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/16/24 09:15	08/23/24 19:20	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/16/24 09:15	08/23/24 19:20	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/16/24 09:15	08/23/24 19:20	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/16/24 09:15	08/23/24 19:20	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/16/24 09:15	08/23/24 19:20	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/16/24 09:15	08/23/24 19:20	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/16/24 09:15	08/23/24 19:20	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-430525/1-A
Matrix: Water
Analysis Batch: 431362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.00970		0.0200	0.00970	mg/L		08/16/24 09:15	08/23/24 19:20	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/16/24 09:15	08/23/24 19:20	1

Lab Sample ID: MB 310-430525/1-A
Matrix: Water
Analysis Batch: 431474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/16/24 09:15	08/26/24 15:33	1

Lab Sample ID: LCS 310-430525/2-A
Matrix: Water
Analysis Batch: 431362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2128		mg/L		106	80 - 120
Barium	0.100	0.1064		mg/L		106	80 - 120
Beryllium	0.100	0.1049		mg/L		105	80 - 120
Cadmium	0.100	0.1045		mg/L		105	80 - 120
Chromium	0.100	0.1094		mg/L		109	80 - 120
Cobalt	0.100	0.1113		mg/L		111	80 - 120
Copper	0.200	0.2125		mg/L		106	80 - 120
Lead	0.200	0.2049		mg/L		102	80 - 120
Nickel	0.200	0.2199		mg/L		110	80 - 120
Selenium	0.400	0.3890		mg/L		97	80 - 120
Silver	0.100	0.1128		mg/L		113	80 - 120
Thallium	0.100	0.1083		mg/L		108	80 - 120
Vanadium	0.100	0.1053		mg/L		105	80 - 120
Zinc	0.200	0.1983		mg/L		99	80 - 120
Tin	0.200	0.2165		mg/L		108	80 - 120

Lab Sample ID: LCS 310-430525/2-A
Matrix: Water
Analysis Batch: 431474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2359		mg/L		118	80 - 120

Lab Sample ID: 310-288174-1 MS
Matrix: Ground Water
Analysis Batch: 431362

Client Sample ID: AW-1_24_08
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0461		0.200	0.2649		mg/L		109	75 - 125
Barium	0.178	F1	0.100	0.2948		mg/L		117	75 - 125
Beryllium	<0.000330		0.100	0.1055		mg/L		106	75 - 125
Cadmium	<0.000100		0.100	0.1006		mg/L		101	75 - 125
Chromium	<0.00120		0.100	0.1033		mg/L		103	75 - 125
Cobalt	0.00136		0.100	0.1062		mg/L		105	75 - 125
Copper	<0.00180		0.200	0.1987		mg/L		99	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-288174-1 MS
Matrix: Ground Water
Analysis Batch: 431362

Client Sample ID: AW-1_24_08
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.000817		0.200	0.2050		mg/L		102	75 - 125
Nickel	0.0246		0.200	0.2243		mg/L		100	75 - 125
Selenium	<0.00140		0.400	0.4081		mg/L		102	75 - 125
Silver	0.000705	J	0.100	0.1100		mg/L		109	75 - 125
Thallium	0.00161		0.100	0.09309		mg/L		91	75 - 125
Vanadium	<0.00110		0.100	0.1045		mg/L		105	75 - 125
Zinc	0.0231		0.200	0.2140		mg/L		95	75 - 125
Tin	<0.00230		0.200	0.2098		mg/L		105	75 - 125

Lab Sample ID: 310-288174-1 MS
Matrix: Ground Water
Analysis Batch: 431474

Client Sample ID: AW-1_24_08
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00100		0.200	0.2488		mg/L		124	75 - 125

Lab Sample ID: 310-288174-1 MSD
Matrix: Ground Water
Analysis Batch: 431362

Client Sample ID: AW-1_24_08
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0461		0.200	0.2674		mg/L		111	75 - 125	1	20
Barium	0.178	F1	0.100	0.3037	F1	mg/L		126	75 - 125	3	20
Beryllium	<0.000330		0.100	0.1080		mg/L		108	75 - 125	2	20
Cadmium	<0.000100		0.100	0.1018		mg/L		102	75 - 125	1	20
Chromium	<0.00120		0.100	0.1031		mg/L		103	75 - 125	0	20
Cobalt	0.00136		0.100	0.1055		mg/L		104	75 - 125	1	20
Copper	<0.00180		0.200	0.2015		mg/L		101	75 - 125	1	20
Lead	0.000817		0.200	0.2058		mg/L		102	75 - 125	0	20
Nickel	0.0246		0.200	0.2278		mg/L		102	75 - 125	2	20
Selenium	<0.00140		0.400	0.4112		mg/L		103	75 - 125	1	20
Silver	0.000705	J	0.100	0.1076		mg/L		107	75 - 125	2	20
Thallium	0.00161		0.100	0.09456		mg/L		93	75 - 125	2	20
Vanadium	<0.00110		0.100	0.1042		mg/L		104	75 - 125	0	20
Zinc	0.0231		0.200	0.2162		mg/L		97	75 - 125	1	20
Tin	<0.00230		0.200	0.2101		mg/L		105	75 - 125	0	20

Lab Sample ID: 310-288174-1 MSD
Matrix: Ground Water
Analysis Batch: 431474

Client Sample ID: AW-1_24_08
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00100		0.200	0.2449		mg/L		122	75 - 125	2	20

Lab Sample ID: 310-288174-11 DU
Matrix: Ground Water
Analysis Batch: 431362

Client Sample ID: VP-3_24_08
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.00770		0.007772		mg/L		0.9	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-288174-11 DU
Matrix: Ground Water
Analysis Batch: 431362

Client Sample ID: VP-3_24_08
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Barium	0.774			0.7972		mg/L				3	20
Beryllium	<0.000330			<0.000330		mg/L				NC	20
Cadmium	<0.000100			<0.000100		mg/L				NC	20
Chromium	<0.00120			<0.00120		mg/L				NC	20
Cobalt	<0.000170			<0.000170		mg/L				NC	20
Copper	<0.00180			<0.00180		mg/L				NC	20
Lead	<0.000260			<0.000260		mg/L				NC	20
Nickel	<0.00210			<0.00210		mg/L				NC	20
Selenium	<0.00140			<0.00140		mg/L				NC	20
Silver	<0.000500			<0.000500		mg/L				NC	20
Thallium	<0.000570			<0.000570		mg/L				NC	20
Vanadium	<0.00110			<0.00110		mg/L				NC	20
Zinc	<0.00970			<0.00970		mg/L				NC	20
Tin	<0.00230			<0.00230		mg/L				NC	20

Lab Sample ID: 310-288174-11 DU
Matrix: Ground Water
Analysis Batch: 431474

Client Sample ID: VP-3_24_08
Prep Type: Total/NA
Prep Batch: 430525

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	<0.00100			<0.00100		mg/L				NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-431497/1-A
Matrix: Water
Analysis Batch: 431571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		08/27/24 11:45	08/27/24 15:32	1

Lab Sample ID: LCS 310-431497/2-A
Matrix: Water
Analysis Batch: 431571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431497

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00167	0.001738		mg/L		104	80 - 120		

Lab Sample ID: 310-287548-B-3-F MS
Matrix: Water
Analysis Batch: 431571

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 431497

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.000110		0.00167	0.001503		mg/L		90	80 - 120		

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 310-287548-B-3-G MSD
Matrix: Water
Analysis Batch: 431571

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 431497

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000110		0.00167	0.001734		mg/L		104	80 - 120	14	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-430530/1
Matrix: Water
Analysis Batch: 430530

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/15/24 15:57	1

Lab Sample ID: LCS 310-430530/2
Matrix: Water
Analysis Batch: 430530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	94.00		mg/L		94	81 - 116

Lab Sample ID: 310-288174-11 DU
Matrix: Ground Water
Analysis Batch: 430530

Client Sample ID: VP-3_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	21.0		22.33		mg/L		6	35

Lab Sample ID: MB 310-430655/1
Matrix: Water
Analysis Batch: 430655

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/16/24 13:59	1

Lab Sample ID: LCS 310-430655/2
Matrix: Water
Analysis Batch: 430655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	100.0		mg/L		100	81 - 116

Lab Sample ID: 310-288049-B-1 DU
Matrix: Water
Analysis Batch: 430655

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	192		190.0		mg/L		1	35

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: 310-288129-B-5 DU
Matrix: Water
Analysis Batch: 430655

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	240			254.0		mg/L				6	35

Lab Sample ID: MB 310-430692/1
Matrix: Water
Analysis Batch: 430692

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/17/24 09:36	1

Lab Sample ID: LCS 310-430692/2
Matrix: Water
Analysis Batch: 430692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	99.00		mg/L		99	81 - 116		

Lab Sample ID: 310-288153-A-1 DU
Matrix: Water
Analysis Batch: 430692

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	106			116.0		mg/L				9	35

GC/MS VOA

Analysis Batch: 430513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-1	AW-1_24_08	Total/NA	Ground Water	8260D	
310-288174-2	AW-2_24_08	Total/NA	Ground Water	8260D	
310-288174-3	AW-3_24_08	Total/NA	Ground Water	8260D	
310-288174-4	AW-4_24_08	Total/NA	Ground Water	8260D	
310-288174-5	CRL-9_24_08	Total/NA	Ground Water	8260D	
310-288174-6	MW-17_24_08	Total/NA	Ground Water	8260D	
310-288174-7	MW-18_24_08	Total/NA	Ground Water	8260D	
310-288174-8	MW-23_24_08	Total/NA	Ground Water	8260D	
310-288174-9	MW-37_24_08	Total/NA	Ground Water	8260D	
310-288174-10	MW-38_24_08	Total/NA	Ground Water	8260D	
310-288174-11	VP-3_24_08	Total/NA	Ground Water	8260D	
310-288174-12	VP-4_24_08	Total/NA	Ground Water	8260D	
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	8260D	
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	8260D	
310-288174-15	FD-1_24_08	Total/NA	Ground Water	8260D	
310-288174-16	FB-1_24_08	Total/NA	Water	8260D	
MB 310-430513/5	Method Blank	Total/NA	Water	8260D	
LCS 310-430513/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-430513/7	Lab Control Sample	Total/NA	Water	8260D	
310-288174-1 MS	AW-1_24_08	Total/NA	Ground Water	8260D	
310-288174-1 MSD	AW-1_24_08	Total/NA	Ground Water	8260D	

Analysis Batch: 430579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-17	TB-1_24_08	Total/NA	Water	8260D	
MB 310-430579/5	Method Blank	Total/NA	Water	8260D	
LCS 310-430579/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-430579/7	Lab Control Sample	Total/NA	Water	8260D	
310-288195-E-1 MS	Matrix Spike	Total/NA	Water	8260D	
310-288195-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 430752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-4	AW-4_24_08	Total/NA	Ground Water	8260D	
MB 310-430752/5	Method Blank	Total/NA	Water	8260D	
LCS 310-430752/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-430752/7	Lab Control Sample	Total/NA	Water	8260D	
310-288236-D-1 MS	Matrix Spike	Total/NA	Water	8260D	
310-288236-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 430561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-1	AW-1_24_08	Total/NA	Ground Water	3510C	
310-288174-2	AW-2_24_08	Total/NA	Ground Water	3510C	
310-288174-3	AW-3_24_08	Total/NA	Ground Water	3510C	
310-288174-4	AW-4_24_08	Total/NA	Ground Water	3510C	
310-288174-5	CRL-9_24_08	Total/NA	Ground Water	3510C	
310-288174-9	MW-37_24_08	Total/NA	Ground Water	3510C	
310-288174-10	MW-38_24_08	Total/NA	Ground Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 430561 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-11	VP-3_24_08	Total/NA	Ground Water	3510C	
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	3510C	
MB 310-430561/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-430561/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-430561/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 430787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-6	MW-17_24_08	Total/NA	Ground Water	3510C	
310-288174-7	MW-18_24_08	Total/NA	Ground Water	3510C	
310-288174-12	VP-4_24_08	Total/NA	Ground Water	3510C	
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	3510C	
310-288174-16	FB-1_24_08	Total/NA	Water	3510C	
MB 310-430787/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-430787/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-430787/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 431323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-1	AW-1_24_08	Total/NA	Ground Water	8270E	430561
310-288174-2	AW-2_24_08	Total/NA	Ground Water	8270E	430561
310-288174-3	AW-3_24_08	Total/NA	Ground Water	8270E	430561
310-288174-4	AW-4_24_08	Total/NA	Ground Water	8270E	430561
310-288174-5	CRL-9_24_08	Total/NA	Ground Water	8270E	430561
310-288174-9	MW-37_24_08	Total/NA	Ground Water	8270E	430561
MB 310-430561/1-A	Method Blank	Total/NA	Water	8270E	430561
LCS 310-430561/2-A	Lab Control Sample	Total/NA	Water	8270E	430561
LCSD 310-430561/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	430561

Analysis Batch: 431424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-6	MW-17_24_08	Total/NA	Ground Water	8270E	430787
310-288174-7	MW-18_24_08	Total/NA	Ground Water	8270E	430787
310-288174-10	MW-38_24_08	Total/NA	Ground Water	8270E	430561
310-288174-11	VP-3_24_08	Total/NA	Ground Water	8270E	430561
310-288174-12	VP-4_24_08	Total/NA	Ground Water	8270E	430787
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	8270E	430787
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	8270E	430561
310-288174-16	FB-1_24_08	Total/NA	Water	8270E	430787
MB 310-430787/1-A	Method Blank	Total/NA	Water	8270E	430787
LCS 310-430787/2-A	Lab Control Sample	Total/NA	Water	8270E	430787
LCSD 310-430787/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	430787

GC Semi VOA

Prep Batch: 430798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-3	AW-3_24_08	Total/NA	Ground Water	3510C	
310-288174-9	MW-37_24_08	Total/NA	Ground Water	3510C	
310-288174-12	VP-4_24_08	Total/NA	Ground Water	3510C	
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 430798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-16	FB-1_24_08	Total/NA	Water	3510C	
MB 310-430798/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-430798/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-430798/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 431000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-3	AW-3_24_08	Total/NA	Ground Water	8081B	430798
310-288174-9	MW-37_24_08	Total/NA	Ground Water	8081B	430798
310-288174-12	VP-4_24_08	Total/NA	Ground Water	8081B	430798
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	8081B	430798
310-288174-16	FB-1_24_08	Total/NA	Water	8081B	430798
MB 310-430798/1-A	Method Blank	Total/NA	Water	8081B	430798
LCS 310-430798/4-A	Lab Control Sample	Total/NA	Water	8081B	430798
LCSD 310-430798/5-A	Lab Control Sample Dup	Total/NA	Water	8081B	430798

Leach Batch: 782048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-782048/1-B	Method Blank	Total/NA	Water	1311	
310-287909-A-5-H MS	Matrix Spike	TCLP	Water	1311	

Prep Batch: 782096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-6	MW-17_24_08	Total/NA	Ground Water	8151A	
310-288174-9	MW-37_24_08	Total/NA	Ground Water	8151A	
310-288174-10	MW-38_24_08	Total/NA	Ground Water	8151A	
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	8151A	
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	8151A	
310-288174-16	FB-1_24_08	Total/NA	Water	8151A	
LB 500-782048/1-B	Method Blank	Total/NA	Water	8151A	782048
MB 500-782096/1-A	Method Blank	Total/NA	Water	8151A	
LCS 500-782096/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 500-782096/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
310-287909-A-5-H MS	Matrix Spike	TCLP	Water	8151A	782048

Analysis Batch: 782607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-6	MW-17_24_08	Total/NA	Ground Water	8151A	782096
310-288174-9	MW-37_24_08	Total/NA	Ground Water	8151A	782096
310-288174-10	MW-38_24_08	Total/NA	Ground Water	8151A	782096
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	8151A	782096
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	8151A	782096
310-288174-16	FB-1_24_08	Total/NA	Water	8151A	782096
LB 500-782048/1-B	Method Blank	Total/NA	Water	8151A	782096
MB 500-782096/1-A	Method Blank	Total/NA	Water	8151A	782096
LCS 500-782096/2-A	Lab Control Sample	Total/NA	Water	8151A	782096
LCSD 500-782096/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	782096
310-287909-A-5-H MS	Matrix Spike	TCLP	Water	8151A	782096

Metals

Prep Batch: 430525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-1	AW-1_24_08	Total/NA	Ground Water	3005A	
310-288174-2	AW-2_24_08	Total/NA	Ground Water	3005A	
310-288174-3	AW-3_24_08	Total/NA	Ground Water	3005A	
310-288174-4	AW-4_24_08	Total/NA	Ground Water	3005A	
310-288174-5	CRL-9_24_08	Total/NA	Ground Water	3005A	
310-288174-6	MW-17_24_08	Total/NA	Ground Water	3005A	
310-288174-7	MW-18_24_08	Total/NA	Ground Water	3005A	
310-288174-8	MW-23_24_08	Total/NA	Ground Water	3005A	
310-288174-9	MW-37_24_08	Total/NA	Ground Water	3005A	
310-288174-10	MW-38_24_08	Total/NA	Ground Water	3005A	
310-288174-11	VP-3_24_08	Total/NA	Ground Water	3005A	
310-288174-12	VP-4_24_08	Total/NA	Ground Water	3005A	
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	3005A	
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	3005A	
310-288174-15	FD-1_24_08	Total/NA	Ground Water	3005A	
310-288174-16	FB-1_24_08	Total/NA	Water	3005A	
MB 310-430525/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-430525/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-288174-1 MS	AW-1_24_08	Total/NA	Ground Water	3005A	
310-288174-1 MSD	AW-1_24_08	Total/NA	Ground Water	3005A	
310-288174-11 DU	VP-3_24_08	Total/NA	Ground Water	3005A	

Analysis Batch: 431362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-1	AW-1_24_08	Total/NA	Ground Water	6020B	430525
310-288174-2	AW-2_24_08	Total/NA	Ground Water	6020B	430525
310-288174-3	AW-3_24_08	Total/NA	Ground Water	6020B	430525
310-288174-4	AW-4_24_08	Total/NA	Ground Water	6020B	430525
310-288174-5	CRL-9_24_08	Total/NA	Ground Water	6020B	430525
310-288174-6	MW-17_24_08	Total/NA	Ground Water	6020B	430525
310-288174-7	MW-18_24_08	Total/NA	Ground Water	6020B	430525
310-288174-8	MW-23_24_08	Total/NA	Ground Water	6020B	430525
310-288174-9	MW-37_24_08	Total/NA	Ground Water	6020B	430525
310-288174-10	MW-38_24_08	Total/NA	Ground Water	6020B	430525
310-288174-11	VP-3_24_08	Total/NA	Ground Water	6020B	430525
310-288174-12	VP-4_24_08	Total/NA	Ground Water	6020B	430525
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	6020B	430525
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	6020B	430525
310-288174-15	FD-1_24_08	Total/NA	Ground Water	6020B	430525
310-288174-16	FB-1_24_08	Total/NA	Water	6020B	430525
MB 310-430525/1-A	Method Blank	Total/NA	Water	6020B	430525
LCS 310-430525/2-A	Lab Control Sample	Total/NA	Water	6020B	430525
310-288174-1 MS	AW-1_24_08	Total/NA	Ground Water	6020B	430525
310-288174-1 MSD	AW-1_24_08	Total/NA	Ground Water	6020B	430525
310-288174-11 DU	VP-3_24_08	Total/NA	Ground Water	6020B	430525

Analysis Batch: 431474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-1	AW-1_24_08	Total/NA	Ground Water	6020B	430525
310-288174-2	AW-2_24_08	Total/NA	Ground Water	6020B	430525
310-288174-3	AW-3_24_08	Total/NA	Ground Water	6020B	430525

Metals (Continued)

Analysis Batch: 431474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-4	AW-4_24_08	Total/NA	Ground Water	6020B	430525
310-288174-5	CRL-9_24_08	Total/NA	Ground Water	6020B	430525
310-288174-6	MW-17_24_08	Total/NA	Ground Water	6020B	430525
310-288174-7	MW-18_24_08	Total/NA	Ground Water	6020B	430525
310-288174-8	MW-23_24_08	Total/NA	Ground Water	6020B	430525
310-288174-9	MW-37_24_08	Total/NA	Ground Water	6020B	430525
310-288174-10	MW-38_24_08	Total/NA	Ground Water	6020B	430525
310-288174-11	VP-3_24_08	Total/NA	Ground Water	6020B	430525
310-288174-12	VP-4_24_08	Total/NA	Ground Water	6020B	430525
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	6020B	430525
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	6020B	430525
310-288174-15	FD-1_24_08	Total/NA	Ground Water	6020B	430525
310-288174-16	FB-1_24_08	Total/NA	Water	6020B	430525
MB 310-430525/1-A	Method Blank	Total/NA	Water	6020B	430525
LCS 310-430525/2-A	Lab Control Sample	Total/NA	Water	6020B	430525
310-288174-1 MS	AW-1_24_08	Total/NA	Ground Water	6020B	430525
310-288174-1 MSD	AW-1_24_08	Total/NA	Ground Water	6020B	430525
310-288174-11 DU	VP-3_24_08	Total/NA	Ground Water	6020B	430525

Prep Batch: 431497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-7	MW-18_24_08	Total/NA	Ground Water	7470A	
310-288174-10	MW-38_24_08	Total/NA	Ground Water	7470A	
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	7470A	
310-288174-16	FB-1_24_08	Total/NA	Water	7470A	
MB 310-431497/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-431497/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-287548-B-3-F MS	Matrix Spike	Total/NA	Water	7470A	
310-287548-B-3-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 431571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-7	MW-18_24_08	Total/NA	Ground Water	7470A	431497
310-288174-10	MW-38_24_08	Total/NA	Ground Water	7470A	431497
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	7470A	431497
310-288174-16	FB-1_24_08	Total/NA	Water	7470A	431497
MB 310-431497/1-A	Method Blank	Total/NA	Water	7470A	431497
LCS 310-431497/2-A	Lab Control Sample	Total/NA	Water	7470A	431497
310-287548-B-3-F MS	Matrix Spike	Total/NA	Water	7470A	431497
310-287548-B-3-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	431497

General Chemistry

Analysis Batch: 430530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-2	AW-2_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-9	MW-37_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-10	MW-38_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-11	VP-3_24_08	Total/NA	Ground Water	I-3765-85	
MB 310-430530/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-430530/2	Lab Control Sample	Total/NA	Water	I-3765-85	

General Chemistry (Continued)

Analysis Batch: 430530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-11 DU	VP-3_24_08	Total/NA	Ground Water	I-3765-85	

Analysis Batch: 430655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-1	AW-1_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-3	AW-3_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-4	AW-4_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-5	CRL-9_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-6	MW-17_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-7	MW-18_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-8	MW-23_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-12	VP-4_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-14	MW-101B_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-15	FD-1_24_08	Total/NA	Ground Water	I-3765-85	
310-288174-16	FB-1_24_08	Total/NA	Water	I-3765-85	
MB 310-430655/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-430655/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-288049-B-1 DU	Duplicate	Total/NA	Water	I-3765-85	
310-288129-B-5 DU	Duplicate	Total/NA	Water	I-3765-85	

Analysis Batch: 430692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288174-13	MW-101A_24_08	Total/NA	Ground Water	I-3765-85	
MB 310-430692/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-430692/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-288153-A-1 DU	Duplicate	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: AW-1_24_08
Lab Sample ID: 310-288174-1
Date Collected: 08/13/24 13:05
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 03:42
Total/NA	Prep	3510C			430561	L5FG	EET CF	08/16/24 08:45
Total/NA	Analysis	8270E		1	431323	L0FS	EET CF	08/23/24 20:51
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 19:27
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 15:38
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: AW-2_24_08
Lab Sample ID: 310-288174-2
Date Collected: 08/12/24 14:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 04:05
Total/NA	Prep	3510C			430561	L5FG	EET CF	08/16/24 08:45
Total/NA	Analysis	8270E		1	431323	L0FS	EET CF	08/23/24 21:16
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 19:44
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 15:53
Total/NA	Analysis	I-3765-85		1	430530	ENB7	EET CF	08/15/24 15:57

Client Sample ID: AW-3_24_08
Lab Sample ID: 310-288174-3
Date Collected: 08/13/24 14:00
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 04:28
Total/NA	Prep	3510C			430561	L5FG	EET CF	08/16/24 08:45
Total/NA	Analysis	8270E		1	431323	L0FS	EET CF	08/23/24 21:41
Total/NA	Prep	3510C			430798	L5FG	EET CF	08/19/24 15:32
Total/NA	Analysis	8081B		1	431000	BW2O	EET CF	08/21/24 14:38
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 19:48
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 15:55
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: AW-4_24_08
Lab Sample ID: 310-288174-4
Date Collected: 08/13/24 16:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 10:33

Client Sample ID: AW-4_24_08
Lab Sample ID: 310-288174-4

Date Collected: 08/13/24 16:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430752	FE5V	EET CF	08/19/24 14:12
Total/NA	Prep	3510C			430561	L5FG	EET CF	08/16/24 08:45
Total/NA	Analysis	8270E		1	431323	L0FS	EET CF	08/23/24 22:06
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:06
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 15:57
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: CRL-9_24_08
Lab Sample ID: 310-288174-5

Date Collected: 08/13/24 16:25
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 04:51
Total/NA	Prep	3510C			430561	L5FG	EET CF	08/16/24 08:45
Total/NA	Analysis	8270E		1	431323	L0FS	EET CF	08/23/24 22:31
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:10
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 15:59
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: MW-17_24_08
Lab Sample ID: 310-288174-6

Date Collected: 08/13/24 10:20
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 05:13
Total/NA	Prep	3510C			430787	L5FG	EET CF	08/19/24 13:19
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 17:33
Total/NA	Prep	8151A			782096	AC	EET CHI	08/19/24 08:19
Total/NA	Analysis	8151A		1	782607	SB	EET CHI	08/21/24 17:15
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:13
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:02
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: MW-18_24_08
Lab Sample ID: 310-288174-7

Date Collected: 08/13/24 09:40
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 05:36

Client Sample ID: MW-18_24_08

Lab Sample ID: 310-288174-7

Date Collected: 08/13/24 09:40

Matrix: Ground Water

Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			430787	L5FG	EET CF	08/19/24 13:19
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 17:59
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:17
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:04
Total/NA	Prep	7470A			431497	DHM5	EET CF	08/27/24 11:45
Total/NA	Analysis	7470A		1	431571	DHM5	EET CF	08/27/24 16:12
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: MW-23_24_08

Lab Sample ID: 310-288174-8

Date Collected: 08/13/24 15:55

Matrix: Ground Water

Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 05:59
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:20
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:06
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: MW-37_24_08

Lab Sample ID: 310-288174-9

Date Collected: 08/12/24 11:25

Matrix: Ground Water

Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 06:22
Total/NA	Prep	3510C			430561	L5FG	EET CF	08/16/24 08:45
Total/NA	Analysis	8270E		1	431323	L0FS	EET CF	08/23/24 22:56
Total/NA	Prep	3510C			430798	L5FG	EET CF	08/19/24 15:32
Total/NA	Analysis	8081B		1	431000	BW2O	EET CF	08/21/24 14:55
Total/NA	Prep	8151A			782096	AC	EET CHI	08/19/24 08:19
Total/NA	Analysis	8151A		1	782607	SB	EET CHI	08/21/24 17:34
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:24
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:08
Total/NA	Analysis	I-3765-85		1	430530	ENB7	EET CF	08/15/24 15:57

Client Sample ID: MW-38_24_08

Lab Sample ID: 310-288174-10

Date Collected: 08/12/24 10:30

Matrix: Ground Water

Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 06:45
Total/NA	Prep	3510C			430561	L5FG	EET CF	08/16/24 08:45
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 13:13
Total/NA	Prep	8151A			782096	AC	EET CHI	08/19/24 08:19
Total/NA	Analysis	8151A		1	782607	SB	EET CHI	08/21/24 17:52
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:28
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:11
Total/NA	Prep	7470A			431497	DHM5	EET CF	08/27/24 11:45
Total/NA	Analysis	7470A		1	431571	DHM5	EET CF	08/27/24 16:53
Total/NA	Analysis	I-3765-85		1	430530	ENB7	EET CF	08/15/24 15:57

Client Sample ID: VP-3_24_08

Lab Sample ID: 310-288174-11

Date Collected: 08/12/24 13:30

Matrix: Ground Water

Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 07:07
Total/NA	Prep	3510C			430561	L5FG	EET CF	08/16/24 08:45
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 13:40
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:32
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:13
Total/NA	Analysis	I-3765-85		1	430530	ENB7	EET CF	08/15/24 15:57

Client Sample ID: VP-4_24_08

Lab Sample ID: 310-288174-12

Date Collected: 08/13/24 11:55

Matrix: Ground Water

Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 07:30
Total/NA	Prep	3510C			430787	L5FG	EET CF	08/19/24 13:19
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 18:25
Total/NA	Prep	3510C			430798	L5FG	EET CF	08/19/24 15:32
Total/NA	Analysis	8081B		1	431000	BW2O	EET CF	08/21/24 15:11
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:39
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:26
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: MW-101A_24_08
Lab Sample ID: 310-288174-13

Date Collected: 08/13/24 13:20
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 07:53
Total/NA	Prep	3510C			430787	L5FG	EET CF	08/19/24 13:19
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 18:50
Total/NA	Prep	3510C			430798	L5FG	EET CF	08/19/24 15:39
Total/NA	Analysis	8081B		1	431000	BW2O	EET CF	08/21/24 16:00
Total/NA	Prep	8151A			782096	AC	EET CHI	08/19/24 08:19
Total/NA	Analysis	8151A		1	782607	SB	EET CHI	08/21/24 18:11
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 20:57
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:28
Total/NA	Analysis	I-3765-85		1	430692	ENB7	EET CF	08/17/24 09:36

Client Sample ID: MW-101B_24_08
Lab Sample ID: 310-288174-14

Date Collected: 08/13/24 14:40
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 08:16
Total/NA	Prep	3510C			430561	L5FG	EET CF	08/16/24 08:45
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 14:05
Total/NA	Prep	8151A			782096	AC	EET CHI	08/19/24 08:19
Total/NA	Analysis	8151A		1	782607	SB	EET CHI	08/21/24 18:47
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 21:01
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:30
Total/NA	Prep	7470A			431497	DHM5	EET CF	08/27/24 11:45
Total/NA	Analysis	7470A		1	431571	DHM5	EET CF	08/27/24 16:55
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: FD-1_24_08
Lab Sample ID: 310-288174-15

Date Collected: 08/13/24 00:00
Matrix: Ground Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 08:39
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 21:04
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:33
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Lab Chronicle

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Client Sample ID: FB-1_24_08
Lab Sample ID: 310-288174-16
Date Collected: 08/13/24 16:20
Matrix: Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430513	FE5V	EET CF	08/16/24 03:19
Total/NA	Prep	3510C			430787	L5FG	EET CF	08/19/24 13:19
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 19:16
Total/NA	Prep	3510C			430798	L5FG	EET CF	08/19/24 16:27
Total/NA	Analysis	8081B		1	431000	BW2O	EET CF	08/21/24 16:17
Total/NA	Prep	8151A			782096	AC	EET CHI	08/19/24 08:19
Total/NA	Analysis	8151A		1	782607	SB	EET CHI	08/21/24 16:57
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431362	NFT2	EET CF	08/23/24 21:08
Total/NA	Prep	3005A			430525	QTZ5	EET CF	08/16/24 09:15
Total/NA	Analysis	6020B		1	431474	NFT2	EET CF	08/26/24 16:35
Total/NA	Prep	7470A			431497	DHM5	EET CF	08/27/24 11:45
Total/NA	Analysis	7470A		1	431571	DHM5	EET CF	08/27/24 16:57
Total/NA	Analysis	I-3765-85		1	430655	WZC8	EET CF	08/16/24 13:59

Client Sample ID: TB-1_24_08
Lab Sample ID: 310-288174-17
Date Collected: 08/13/24 00:00
Matrix: Water
Date Received: 08/14/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430579	WSE8	EET CF	08/16/24 13:23

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

Method Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288174-1
Project/Site: CRLCSWA_1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8151A	Herbicides (GC)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

eurofins | Environment Testing America

310-288174 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8-14-24 | TIME 1515 | Received By: CC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☑ No *If yes:* Cooler # 1 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.9 | Corrected Temp (°C): 1.9

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8-14-24 | TIME 1515 | Received By: CC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☑ No *If yes:* Cooler # 2 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.5 | Corrected Temp (°C):

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8-14-24 | TIME 1515 | Received By: CC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☑ No *If yes:* Cooler # 3 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes.* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 2.4 | Corrected Temp (°C): 2.4

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8-14-24 | TIME 1515 | Received By: CC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☑ No *If yes:* Cooler # 4 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.8 | Corrected Temp (°C): 0.8

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8-14-24 | TIME 1515 | Received By: CC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☑ No *If yes:* Cooler # 5 of 5

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes: Cooler custody seals intact?* ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.6 | Corrected Temp (°C): 1.6

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE *If yes, contact PM before proceeding If no, proceed with login*

Additional Comments

Chain of Custody Record

385389

eurofins | Environment Testing TestAmerica

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: G.Wilming / H. Dobbs	Site Contact: —	Date: 8/14/24	COC No: —
Company Name: Fo7h I+E	Tel/Email: gwilming@fofh.com	Lab Contact: Connor	Carrier: Eurofins	1 of 2 COCs
Address: 411 6th ~~Street~~ Ave SE	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			Sampler: T.Meath / R.Gruis
City/State/Zip: Cedar Rapids, IA 52401	TAT if different from Below _____			For Lab Use Only.
Phone: 319-365-9515	☐ 2 weeks			Walk-in Client:
Fax: 319-365-9681	☐ 1 week			Lab Sampling
Project Name: CRLCSWA #1	☐ 2 days			Job / SDG No
Site: CRLCSWA #1	☐ 1 day			
P O #: —				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
AW-1_24-08	8/13/24	13:05	G	H_2O	7			SEE
AW-2_24-08	8/12	14:25			7			ATTACHED
AW-3_24_08	8/13	14:00			9			SHEETS
AW-4_24_08	8/13	16:25			7			
CRL-9_24_08	8/13	16:25			7			
MW-17_24_08	8/13	10:20			9			
MW-18_24-08	8/13	9:40			7			
MW-23_24-08	8/13	15:55			5			
MW-37_24_08	8/12	11:05			11			
MW-38_24-08	8/12	10:30			11			
VP-3_24_08	8/12	13:30			7			
VP-4_24_08	8/13/24	11:55			9			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	OATECH	8/14/24 12:00			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by [signature]	Company [signature]	Date/Time 8/14/24 1515

Chain of Custody Record

385376

eurofins | Environment Testing TestAmerica

Address. ____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other·

TAL-8210

Client Contact	Project Manager: G. Wilming / H. Dobbs	Site Contact: —	Date· 8/14/24
Company Name Foth I+E	Tel/Email g.wilming@foth.com	Lab Contact· Connor	Carrier: Eurofins
Address 411 6th Ave SE	Analysis Turnaround Time		
City/State/Zip Cedar Rapids, IA 52401	☐ CALENDAR DAYS ☐ WORKING DAYS		
Phone 319-365-9565	TAT if different from Below ____		
Fax. 319-365-9681	☐ 2 weeks		
Project Name CRLCSWA #1	☐ 1 week		
Site CRLCSWA #1	☐ 2 days		
P O #	☐ 1 day		

COC No —

2 of 2 COCs

Sampler· T. Merritt / R. Gavin

For Lab Use Only.

Walk-in Client:

Lab Sampling

Job / SDG No

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)		Sample Specific Notes
MW-101A_24_08	8/13/24	13:20	G	H2O	11			SEE	
MW-101B_24_08	8/13	14:40			9			ATTACHED	
FD-1_24_08	8/13	—			5			Sheets	
FB-1_24_08	8/13/24	16:20			11				
TB-1_24_08	—	—			3				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ____ Corr'd ____ | Therm ID No ____

Relinquished by·	Company·	Date/Time	Received by·	Company·	Date/Time
[signature]	OATECH	8/14/24 12:00			
Relinquished by·	Company·	Date/Time	Received by	Company·	Date/Time
Relinquished by·	Company	Date/Time	Received in Laboratory by·	Company	Date/Time

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 1 of 5 **COC Number:** 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE (G = Grab, C = Composite)	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: N	IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
1	AW-1_24_08	AW-1	WG	G												X	X			X															
2	AW-2_24_08	AW-2	WG	G												X	X			X															
3	AW-3_24_08	AW-3	WG	G												X	X			X										X				X	
4	AW-4_24_08	AW-4	WG	G												X	X			X															
5	AW-5_24_08	AW-5	WG	G												X	X							X											
6	AW-6_24_08	AW-6	WG	G												X	X			X				X										X	
7	CRL-9_24_08	CRL-9	WG	G												X	X	X		X														X	
8	MW-11_24_08	MW-11	WG	G												X	X			X														X	
9	MW-12_24_08	MW-12	WG	G												X	X	X											X					X	
10	MW-13_24_08	MW-13	WG	G												X	X	X							X										
11	MW-14_24_08	MW-14	WG	G												X	X																		
12	MW-15_24_08	MW-15	WG	G												X	X			X															

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER.

SIGNATURE of SAMPLER | DATE Signed.

8/2/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 2 **of** 5 **COC Number:** 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←	
13	MW-16_24_08	MW-16	WG	G											X	X	X						X											
14	MW-17_24_08	MW-17	WG	G											X	X			X				X											
15	MW-18_24_08	MW-18	WG	G											X	X			X												X			
16	MW-19_24_08	MW-19	WG	G											X	X			X															
17	MW-20_24_08	MW-20	WG	G											X	X																X		
18	MW-21_24_08	MW-21	WG	G											X	X							X		X				X			X		
19	MW-22_24_08	MW-22	WG	G											X	X		X	X				X									X		
20	MW-23_24_08	MW-23	WG	G											X	X																X		
21	MW-24_24_08	MW-24	WG	G											X	X	X		X					X								X		
22	MW-25_24_08	MW-25	WG	G											X	X			X													X		
23	MW-26_24_08	MW-26	WG	G											X	X			X						X					X		X		
24	MW-28_24_08	MW-28	WG	G											X	X					X													

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER.

SIGNATURE of SAMPLER | DATE Signed

8/28/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 3 of 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O.		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
25	MW-30_24_08	MW-30	WG	G											X	X			X													X		
26	MW-31_24_08	MW-31	WG	G											X	X																		
27	MW-32_24_08	MW-32	WG	G											X	X			X				X									X		
28	MW-33_24_08	MW-33	WG	G											X	X			X													X		
29	MW-34_24_08	MW-34	WG	G											X	X	X		X													X		
30	MW-35_24_08	MW-35	WG	G											X	X	X															X		
31	MW-36_24_08	MW-36	WG	G											X	X			X													X		
32	MW-37_24_08	MW-37	WG	G											X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X		
33	MW-38_24_08	MW-38	WG	G											X	X	X	X	X				X								X	X		
34	VP-3_24_08	VP-3	WG	G											X	X			X	X														
35	VP-4_24_08	VP-4	WG	G											X	X			X												X			
36	MW-101A_24_08	MW-101A	WG	G											X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X		

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER.

SIGNATURE of SAMPLER | DATE Signed

8/28/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 4 **of** 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Total Arsenic	REMARKS / Lab ID
															N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	← Filtered (Y/N)
37	MW-101B_24_08	MW-101B	WG	G											X	X	X	X	X				X								X	X		
38	MW-102B_24_08	MW-102B	WG	G											X	X																		
39	MW-104B_24_08	MW-104B	WG	G												X																	X	
40	MW-105A_24_08	MW-105A	WG	G											X	X																		
41	MW-105B_24_08	MW-105B	WG	G											X	X																		
42	MW-106A_24_08	MW-106A	WG	G											X	X																		
43	MW-107A_24_08	MW-107A	WG	G											X	X																		
44	MW-107B_24_08	MW-107B	WG	G											X	X																		
45	MW-108B_24_08	MW-108B	WG	G											X	X																		Do Not Analyze Cobalt
46	MW-109A_24_08	MW-109A	WG	G											X	X																		
47	MW-109B_24_08	MW-109B	WG	G											X	X																		
48	FD-1_24_08		WG	G											X	X																		

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed

Additional Comments:

8/28/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 5 of 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	App. I VOCs Only	← Filtered (Y/N)	REMARKS / Lab ID
															N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
49	FD-2_24_08		WG	G											X	X																		
50	FD-3_24_08		WG	G											X	X																		
51	FD-4_24_08		WG	G											X	X																		
52	FD-5_24_08		WG	G											X	X																		
53	FB-1_24_08	FB-1	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
54	FB-2_24_08	FB-2	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
55	FB-3_24_08	FB-3	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
56	TB-1_24_08	Trip Blank	WQ	G													X																X	
57	TB-2_24_08	Trip Blank	WQ	G													X																X	
58	TB-3_24_08	Trip Blank	WQ	G													X																X	
59	TB-4_24_08	Trip Blank	WQ	G													X																X	
60	TB-5_24_08	Trip Blank	WQ	G													X																X	

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Additional Comments:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed

Page 100 of 103

8/28/2024

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Calhoun, Conner M	Carrier Tracking No(s):	COC No: 310-75400 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Conner Calhoun@et eurofinsus com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State Program - Iowa		Job #: 310-288174-1
Address: 2417 Bond Street, ,	Due Date Requested: 8/27/2024			Preservation Codes:
City: University Park	TAT Requested (days):			
State Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: CRLCSWA_1	Project #: 31009776			
Site:	SSOW#:			Other:

310-288174 COC

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP (MOD) TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-17_24_08 (310-288174-6)	8/13/24	10 20 Central	G	Water			X	2	
MW-37_24_08 (310-288174-9)	8/12/24	11 25 Central	G	Water			X	2	
MW-38_24_08 (310-288174-10)	8/12/24	10 30 Central	G	Water			X	2	
MW-101A_24_08 (310-288174-13)	8/13/24	13 20 Central	G	Water			X	2	
MW-101B_24_08 (310-288174-14)	8/13/24	14 40 Central	G	Water			X	2	
FB-1_24_08 (310-288174-16)	8/13/24	16 20 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing North Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time: 8/15/24 1450	Company	Received by:	Date/Time: 8/16/24 0950	Company: BETA
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.6-1.5

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-288174-1

Login Number: 288174

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Calhoun, Conner M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-288174-1

Login Number: 288174
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 08/16/24 03:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gina Wilming
Foth Infrastructure & Environment, LLC
411 6th Avenue SE
Suite 400
Cedar Rapids, Iowa 52401

Generated 8/28/2024 5:24:20 PM

JOB DESCRIPTION

CRLCSWA_1
24C034.00

JOB NUMBER

310-288458-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
8/28/2024 5:24:20 PM

Authorized for release by
Conner Calhoun, Project Management Assistant I
Conner.Calhoun@et.eurofinsus.com
(319)277-2401

Table of Contents

Job ID: 310-288458-1 Eurofins Cedar Falls

Job Narrative
310-288458-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/16/2024 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.1°C, 3.2°C and 3.4°C.

GC/MS VOA
Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-13_24_08 (310-288458-1).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-430749 recovered above the upper control limit for trans-1,2-Dichloroethene (22.7%D), Carbon disulfide (29.0%D), cis-1,3-Dichloropropene (25.1%D), and 1,1-Dichloroethene (33.4%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-430749/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-288458-1	MW-13_24_08	Water	08/15/24 10:45	08/16/24 13:30
310-288458-2	MW-14_24_08	Water	08/15/24 11:55	08/16/24 13:30
310-288458-3	MW-15_24_08	Water	08/15/24 11:45	08/16/24 13:30
310-288458-4	MW-16_24_08	Water	08/15/24 12:20	08/16/24 13:30
310-288458-5	MW-19_24_08	Water	08/15/24 14:15	08/16/24 13:30
310-288458-6	MW-20_24_08	Water	08/15/24 13:50	08/16/24 13:30
310-288458-7	MW-24_24_08	Water	08/15/24 13:55	08/16/24 13:30
310-288458-8	MW-25_24_08	Water	08/15/24 14:55	08/16/24 13:30
310-288458-9	MW-107A_24_08	Water	08/15/24 10:50	08/16/24 13:30
310-288458-10	MW-107B_24_08	Water	08/15/24 11:45	08/16/24 13:30
310-288458-11	MW-109A_24_08	Water	08/15/24 14:40	08/16/24 13:30
310-288458-12	MW-109B_24_08	Water	08/15/24 15:25	08/16/24 13:30
310-288458-13	FD-2_24_08	Water	08/15/24 00:00	08/16/24 13:30
310-288458-14	TB-2_24_08	Water	08/15/24 00:00	08/16/24 13:30

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-13_24_08 — Lab Sample ID: 310-288458-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.74		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	2.15		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	12.4		1.00	0.230	ug/L	1		8260D	Total/NA
Acetone	6.52	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	4.11		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	3.93		1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	2.19	J	4.00	0.790	ug/L	1		8260D	Total/NA
Arsenic	0.0351		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.956		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00148		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0118		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00240	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	127		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-14_24_08 — Lab Sample ID: 310-288458-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.74		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	1.43		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	7.57		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	0.860		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	2.26		1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	1.37	J	4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.810	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.0151		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.736		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000543		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0148		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	61.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15_24_08 — Lab Sample ID: 310-288458-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000610	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0414		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00515		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0136		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	3.63		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-16_24_08 — Lab Sample ID: 310-288458-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.32		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	1.32		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	5.18		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	0.567		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	2.01		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.443	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.0638		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.148		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000804		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0293		0.00500	0.00210	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-16_24_08 (Continued) — Lab Sample ID: 310-288458-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0506		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	56.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-19_24_08 — Lab Sample ID: 310-288458-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.228	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.000834	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0327		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.0144		0.00500	0.00210	mg/L	1		6020B	Total/NA
Silver	0.000889	J	0.00100	0.000500	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.20		3.00	2.22	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-20_24_08 — Lab Sample ID: 310-288458-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0218		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.161		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00209		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000339	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0193		0.00500	0.00210	mg/L	1		6020B	Total/NA
Selenium	0.00141	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Silver	0.000893	J	0.00100	0.000500	mg/L	1		6020B	Total/NA
Thallium	0.00157		0.00100	0.000570	mg/L	1		6020B	Total/NA
Zinc	0.0334		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	15.0		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-24_24_08 — Lab Sample ID: 310-288458-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.347	J	1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	5.54		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	11.7		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	8.11		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	63.0		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.284	J	1.00	0.210	ug/L	1		8260D	Total/NA
Vinyl chloride	0.493	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0304		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.899		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000266	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.0212		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000885		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00758		0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.000714	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Zinc	0.0219		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.6		3.00	2.22	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-25_24_08 — Lab Sample ID: 310-288458-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.971	J	1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	0.876	J	4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.10		1.00	0.210	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-25_24_08 (Continued) — Lab Sample ID: 310-288458-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.680	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.00161	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.195		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.25		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-107A_24_08 — Lab Sample ID: 310-288458-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.223	J	1.00	0.210	ug/L	1		8260D	Total/NA
Barium	0.199		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000195	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000569		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0103		0.00500	0.00210	mg/L	1		6020B	Total/NA
Selenium	0.00147	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: MW-107B_24_08 — Lab Sample ID: 310-288458-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.326		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00224		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00239	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0113		0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.00181		0.00100	0.000570	mg/L	1		6020B	Total/NA
Zinc	0.0101	J	0.0200	0.00970	mg/L	1		6020B	Total/NA

Client Sample ID: MW-109A_24_08 — Lab Sample ID: 310-288458-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000615	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.191		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000307	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Selenium	0.00822		0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00112	J	0.00500	0.00110	mg/L	1		6020B	Total/NA

Client Sample ID: MW-109B_24_08 — Lab Sample ID: 310-288458-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.825	J	1.00	0.220	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.48		1.00	0.230	ug/L	1		8260D	Total/NA
Chlorobenzene	7.14		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.403	J	1.00	0.210	ug/L	1		8260D	Total/NA
Vinyl chloride	0.224	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0214		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.681		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0173		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0320		0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.00378		0.00100	0.000570	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.8		3.00	2.22	mg/L	1		I-3765-85	Total/NA

Client Sample ID: FD-2_24_08 — Lab Sample ID: 310-288458-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000753	J	0.00200	0.000530	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FD-2_24_08 (Continued)

Lab Sample ID: 310-288458-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0351		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.0150		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	3.75		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: TB-2_24_08

Lab Sample ID: 310-288458-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.67	J	10.0	3.10	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-13_24_08
Date Collected: 08/15/24 10:45
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 00:02	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 00:02	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 00:02	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 00:02	1
1,1-Dichloroethane	**1.74**		1.00	0.220	ug/L			08/20/24 00:02	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 00:02	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 00:02	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 00:02	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 00:02	1
1,2-Dichlorobenzene	**2.15**		1.00	0.370	ug/L			08/20/24 00:02	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 00:02	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 00:02	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/20/24 00:02	1
1,4-Dichlorobenzene	**12.4**		1.00	0.230	ug/L			08/20/24 00:02	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 00:02	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 00:02	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 00:02	1
Acetone	**6.52**	**J**	10.0	3.10	ug/L			08/20/24 00:02	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 00:02	1
Benzene	**4.11**		0.500	0.220	ug/L			08/20/24 00:02	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 00:02	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 00:02	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 00:02	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 00:02	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 00:02	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 00:02	1
Chlorobenzene	**3.93**		1.00	0.400	ug/L			08/20/24 00:02	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 00:02	1
Chloroethane	**2.19**	**J**	4.00	0.790	ug/L			08/20/24 00:02	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 00:02	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 00:02	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/20/24 00:02	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 00:02	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 00:02	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 00:02	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 00:02	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 00:02	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 00:02	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 00:02	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 00:02	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 00:02	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 00:02	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 00:02	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 00:02	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 00:02	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 00:02	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 00:02	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 00:02	1

Client Sample ID: MW-13_24_08
Date Collected: 08/15/24 10:45
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*08/20/24 00:02*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/20/24 00:02*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/20/24 00:02*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0938		1.12	0.0938	ug/L		08/21/24 09:22	08/23/24 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*82*		*25 - 130*	*08/21/24 09:22*	*08/23/24 12:17*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/21/24 17:12	1
Arsenic	**0.0351**		0.00200	0.000530	mg/L		08/20/24 09:30	08/21/24 17:12	1
Barium	**0.956**		0.00200	0.000660	mg/L		08/20/24 09:30	08/21/24 17:12	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/21/24 17:12	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/21/24 17:12	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/21/24 17:12	1
Cobalt	**0.00148**		0.000500	0.000170	mg/L		08/20/24 09:30	08/21/24 17:12	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/21/24 17:12	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/21/24 17:12	1
Nickel	**0.0118**		0.00500	0.00210	mg/L		08/20/24 09:30	08/22/24 16:17	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/21/24 17:12	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/21/24 17:12	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/21/24 17:12	1
Vanadium	**0.00240**	**J**	0.00500	0.00110	mg/L		08/20/24 09:30	08/21/24 17:12	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/21/24 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**127**		15.0	11.1	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-14_24_08
Date Collected: 08/15/24 11:55
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 00:25	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 00:25	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 00:25	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 00:25	1
1,1-Dichloroethane	**1.74**		1.00	0.220	ug/L			08/20/24 00:25	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 00:25	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 00:25	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 00:25	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 00:25	1
1,2-Dichlorobenzene	**1.43**		1.00	0.370	ug/L			08/20/24 00:25	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 00:25	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 00:25	1
1,4-Dichlorobenzene	**7.57**		1.00	0.230	ug/L			08/20/24 00:25	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 00:25	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 00:25	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 00:25	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 00:25	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 00:25	1
Benzene	**0.860**		0.500	0.220	ug/L			08/20/24 00:25	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 00:25	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 00:25	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 00:25	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 00:25	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 00:25	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 00:25	1
Chlorobenzene	**2.26**		1.00	0.400	ug/L			08/20/24 00:25	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 00:25	1
Chloroethane	**1.37**	**J**	4.00	0.790	ug/L			08/20/24 00:25	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 00:25	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 00:25	1
cis-1,2-Dichloroethene	**0.810**	**J**	1.00	0.210	ug/L			08/20/24 00:25	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 00:25	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 00:25	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 00:25	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 00:25	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 00:25	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 00:25	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 00:25	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 00:25	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 00:25	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 00:25	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 00:25	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 00:25	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 00:25	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 00:25	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 00:25	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*08/20/24 00:25*	*1*

Client Sample ID: MW-14_24_08
Date Collected: 08/15/24 11:55
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/20/24 00:25*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/20/24 00:25*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/21/24 17:14	1
Arsenic	**0.0151**		0.00200	0.000530	mg/L		08/20/24 09:30	08/21/24 17:14	1
Barium	**0.736**		0.00200	0.000660	mg/L		08/20/24 09:30	08/21/24 17:14	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/21/24 17:14	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/21/24 17:14	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/21/24 17:14	1
Cobalt	**0.000543**		0.000500	0.000170	mg/L		08/20/24 09:30	08/21/24 17:14	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/21/24 17:14	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/21/24 17:14	1
Nickel	**0.0148**		0.00500	0.00210	mg/L		08/20/24 09:30	08/22/24 16:20	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/21/24 17:14	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/21/24 17:14	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/21/24 17:14	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/21/24 17:14	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/21/24 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**61.0**		15.0	11.1	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-15_24_08
Date Collected: 08/15/24 11:45
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 00:48	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 00:48	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 00:48	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 00:48	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/20/24 00:48	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 00:48	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 00:48	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 00:48	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 00:48	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/20/24 00:48	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 00:48	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 00:48	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/20/24 00:48	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 00:48	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 00:48	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 00:48	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 00:48	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 00:48	1
Benzene	<0.220		0.500	0.220	ug/L			08/20/24 00:48	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 00:48	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 00:48	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 00:48	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 00:48	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 00:48	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 00:48	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/20/24 00:48	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 00:48	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 00:48	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 00:48	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 00:48	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/20/24 00:48	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 00:48	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 00:48	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 00:48	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 00:48	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 00:48	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 00:48	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 00:48	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 00:48	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 00:48	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 00:48	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 00:48	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 00:48	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 00:48	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 00:48	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 00:48	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*08/20/24 00:48*	*1*

Client Sample ID: MW-15_24_08
Date Collected: 08/15/24 11:45
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/20/24 00:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/20/24 00:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<6.88		12.5	6.88	ug/L		08/19/24 13:19	08/26/24 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*72*		*45 - 129*	*08/19/24 13:19*	*08/26/24 21:22*	*1*
2-Fluorobiphenyl (Surr)	*69*		*39 - 118*	*08/19/24 13:19*	*08/26/24 21:22*	*1*
Terphenyl-d14 (Surr)	*59*		*12 - 144*	*08/19/24 13:19*	*08/26/24 21:22*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/21/24 17:16	1
Arsenic	**0.000610**	**J**	0.00200	0.000530	mg/L		08/20/24 09:30	08/21/24 17:16	1
Barium	**0.0414**		0.00200	0.000660	mg/L		08/20/24 09:30	08/21/24 17:16	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/21/24 17:16	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/21/24 17:16	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/21/24 17:16	1
Cobalt	**0.00515**		0.000500	0.000170	mg/L		08/20/24 09:30	08/21/24 17:16	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/21/24 17:16	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/21/24 17:16	1
Nickel	**0.0136**		0.00500	0.00210	mg/L		08/20/24 09:30	08/22/24 16:24	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/21/24 17:16	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/21/24 17:16	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/21/24 17:16	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/21/24 17:16	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/21/24 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**3.63**		1.88	1.39	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-16_24_08
Date Collected: 08/15/24 12:20
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 01:10	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 01:10	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 01:10	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 01:10	1
1,1-Dichloroethane	**1.32**		1.00	0.220	ug/L			08/20/24 01:10	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 01:10	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 01:10	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 01:10	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 01:10	1
1,2-Dichlorobenzene	**1.32**		1.00	0.370	ug/L			08/20/24 01:10	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 01:10	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 01:10	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/20/24 01:10	1
1,4-Dichlorobenzene	**5.18**		1.00	0.230	ug/L			08/20/24 01:10	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 01:10	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 01:10	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 01:10	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 01:10	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 01:10	1
Benzene	**0.567**		0.500	0.220	ug/L			08/20/24 01:10	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 01:10	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 01:10	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 01:10	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 01:10	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 01:10	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 01:10	1
Chlorobenzene	**2.01**		1.00	0.400	ug/L			08/20/24 01:10	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 01:10	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 01:10	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 01:10	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 01:10	1
cis-1,2-Dichloroethene	**0.443**	**J**	1.00	0.210	ug/L			08/20/24 01:10	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 01:10	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 01:10	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 01:10	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 01:10	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 01:10	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 01:10	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 01:10	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 01:10	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 01:10	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 01:10	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 01:10	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 01:10	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 01:10	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 01:10	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 01:10	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 01:10	1

Client Sample ID: MW-16_24_08
Date Collected: 08/15/24 12:20
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*08/20/24 01:10*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/20/24 01:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/20/24 01:10*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0894		1.07	0.0894	ug/L		08/21/24 09:22	08/23/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*71*		*25 - 130*	*08/21/24 09:22*	*08/23/24 12:35*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/21/24 17:18	1
Arsenic	**0.0638**		0.00200	0.000530	mg/L		08/20/24 09:30	08/21/24 17:18	1
Barium	**0.148**		0.00200	0.000660	mg/L		08/20/24 09:30	08/21/24 17:18	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/21/24 17:18	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/21/24 17:18	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/21/24 17:18	1
Cobalt	**0.000804**		0.000500	0.000170	mg/L		08/20/24 09:30	08/21/24 17:18	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/21/24 17:18	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/21/24 17:18	1
Nickel	**0.0293**		0.00500	0.00210	mg/L		08/20/24 09:30	08/22/24 16:42	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/21/24 17:18	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/21/24 17:18	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/21/24 17:18	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/21/24 17:18	1
Zinc	**0.0506**		0.0200	0.00970	mg/L		08/20/24 09:30	08/21/24 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**56.0**		15.0	11.1	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-19_24_08
Date Collected: 08/15/24 14:15
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 01:33	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 01:33	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 01:33	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 01:33	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/20/24 01:33	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 01:33	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 01:33	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 01:33	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 01:33	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/20/24 01:33	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 01:33	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 01:33	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/20/24 01:33	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 01:33	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 01:33	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 01:33	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 01:33	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 01:33	1
Benzene	<0.220		0.500	0.220	ug/L			08/20/24 01:33	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 01:33	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 01:33	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 01:33	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 01:33	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 01:33	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 01:33	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/20/24 01:33	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 01:33	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 01:33	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 01:33	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 01:33	1
cis-1,2-Dichloroethene	**0.228**	**J**	1.00	0.210	ug/L			08/20/24 01:33	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 01:33	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 01:33	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 01:33	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 01:33	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 01:33	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 01:33	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 01:33	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 01:33	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 01:33	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 01:33	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 01:33	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 01:33	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 01:33	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 01:33	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 01:33	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*08/20/24 01:33*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-19_24_08

Date Collected: 08/15/24 14:15
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/20/24 01:33*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/20/24 01:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.73		10.4	5.73	ug/L		08/19/24 13:19	08/26/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*63*		*45 - 129*	*08/19/24 13:19*	*08/26/24 21:48*	*1*
2-Fluorobiphenyl (Surr)	*61*		*39 - 118*	*08/19/24 13:19*	*08/26/24 21:48*	*1*
Terphenyl-d14 (Surr)	*47*		*12 - 144*	*08/19/24 13:19*	*08/26/24 21:48*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 14:33	1
Arsenic	**0.000834**	**J**	0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 14:25	1
Barium	**0.0327**		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 14:25	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 14:25	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 14:25	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 14:25	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 14:25	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 14:25	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 14:25	1
Nickel	**0.0144**		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 14:25	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 14:25	1
Silver	**0.000889**	**J**	0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 14:25	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 14:25	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 14:25	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**5.20**		3.00	2.22	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-20_24_08
Date Collected: 08/15/24 13:50
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 01:55	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 01:55	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 01:55	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 01:55	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/20/24 01:55	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 01:55	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 01:55	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 01:55	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 01:55	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/20/24 01:55	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 01:55	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 01:55	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/20/24 01:55	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 01:55	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 01:55	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 01:55	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 01:55	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 01:55	1
Benzene	<0.220		0.500	0.220	ug/L			08/20/24 01:55	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 01:55	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 01:55	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 01:55	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 01:55	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 01:55	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 01:55	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/20/24 01:55	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 01:55	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 01:55	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 01:55	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 01:55	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/20/24 01:55	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 01:55	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 01:55	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 01:55	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 01:55	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 01:55	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 01:55	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 01:55	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 01:55	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 01:55	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 01:55	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 01:55	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 01:55	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 01:55	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 01:55	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 01:55	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*08/20/24 01:55*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-20_24_08

Date Collected: 08/15/24 13:50
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/20/24 01:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/20/24 01:55*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 14:48	1
Arsenic	**0.0218**		0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 14:57	1
Barium	**0.161**		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 14:57	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 14:57	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 14:57	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 14:57	1
Cobalt	**0.00209**		0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 14:57	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 14:57	1
Lead	**0.000339**	**J**	0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 14:57	1
Nickel	**0.0193**		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 14:57	1
Selenium	**0.00141**	**J**	0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 14:57	1
Silver	**0.000893**	**J**	0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 14:57	1
Thallium	**0.00157**		0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 14:57	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 14:57	1
Zinc	**0.0334**		0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 14:57	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/20/24 09:30	08/27/24 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**15.0**		5.00	3.70	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-24_24_08
Date Collected: 08/15/24 13:55
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 02:18	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 02:18	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 02:18	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 02:18	1
1,1-Dichloroethane	**0.347**	**J**	1.00	0.220	ug/L			08/20/24 02:18	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 02:18	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 02:18	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 02:18	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 02:18	1
1,2-Dichlorobenzene	**5.54**		1.00	0.370	ug/L			08/20/24 02:18	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 02:18	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 02:18	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/20/24 02:18	1
1,4-Dichlorobenzene	**11.7**		1.00	0.230	ug/L			08/20/24 02:18	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 02:18	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 02:18	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 02:18	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 02:18	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 02:18	1
Benzene	**8.11**		0.500	0.220	ug/L			08/20/24 02:18	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 02:18	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 02:18	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 02:18	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 02:18	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 02:18	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 02:18	1
Chlorobenzene	**63.0**		1.00	0.400	ug/L			08/20/24 02:18	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 02:18	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 02:18	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 02:18	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 02:18	1
cis-1,2-Dichloroethene	**0.284**	**J**	1.00	0.210	ug/L			08/20/24 02:18	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 02:18	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 02:18	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 02:18	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 02:18	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 02:18	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 02:18	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 02:18	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 02:18	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 02:18	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 02:18	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 02:18	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 02:18	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 02:18	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 02:18	1
Vinyl chloride	**0.493**	**J**	1.00	0.180	ug/L			08/20/24 02:18	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 02:18	1

Client Sample ID: MW-24_24_08
Date Collected: 08/15/24 13:55
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*08/20/24 02:18*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/20/24 02:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/20/24 02:18*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/19/24 13:19	08/26/24 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*69*		*45 - 129*	*08/19/24 13:19*	*08/26/24 22:13*	*1*
2-Fluorobiphenyl (Surr)	*64*		*39 - 118*	*08/19/24 13:19*	*08/26/24 22:13*	*1*
Terphenyl-d14 (Surr)	*48*		*12 - 144*	*08/19/24 13:19*	*08/26/24 22:13*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.342		1.11	0.342	ug/L		08/21/24 09:22	08/23/24 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*81*		*25 - 130*	*08/21/24 09:22*	*08/23/24 12:53*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 14:51	1
Arsenic	**0.0304**		0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 15:01	1
Barium	**0.899**		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 15:01	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 15:01	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 15:01	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 15:01	1
Cobalt	**0.000266**	**J**	0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 15:01	1
Copper	**0.0212**		0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 15:01	1
Lead	**0.000885**		0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 15:01	1
Nickel	**0.00758**		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 15:01	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 15:01	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 15:01	1
Thallium	**0.000714**	**J**	0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 15:01	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 15:01	1
Zinc	**0.0219**		0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 15:01	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/20/24 09:30	08/27/24 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**10.6**		3.00	2.22	mg/L			08/19/24 13:42	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-25_24_08
Date Collected: 08/15/24 14:55
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 02:40	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 02:40	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 02:40	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 02:40	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/20/24 02:40	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 02:40	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 02:40	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 02:40	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 02:40	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/20/24 02:40	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 02:40	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 02:40	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/20/24 02:40	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 02:40	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 02:40	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 02:40	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 02:40	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 02:40	1
Benzene	<0.220		0.500	0.220	ug/L			08/20/24 02:40	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 02:40	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 02:40	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 02:40	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 02:40	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 02:40	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 02:40	1
Chlorobenzene	**0.971**	**J**	1.00	0.400	ug/L			08/20/24 02:40	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 02:40	1
Chloroethane	**0.876**	**J**	4.00	0.790	ug/L			08/20/24 02:40	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 02:40	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 02:40	1
cis-1,2-Dichloroethene	**1.10**		1.00	0.210	ug/L			08/20/24 02:40	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 02:40	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 02:40	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 02:40	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 02:40	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 02:40	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 02:40	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 02:40	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 02:40	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 02:40	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 02:40	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 02:40	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 02:40	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 02:40	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 02:40	1
Vinyl chloride	**0.680**	**J**	1.00	0.180	ug/L			08/20/24 02:40	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*08/20/24 02:40*	*1*

Client Sample ID: MW-25_24_08
Date Collected: 08/15/24 14:55
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/20/24 02:40*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/20/24 02:40*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.73		10.4	5.73	ug/L		08/19/24 13:19	08/26/24 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*66*		*45 - 129*	*08/19/24 13:19*	*08/26/24 22:38*	*1*
2-Fluorobiphenyl (Surr)	*59*		*39 - 118*	*08/19/24 13:19*	*08/26/24 22:38*	*1*
Terphenyl-d14 (Surr)	*51*		*12 - 144*	*08/19/24 13:19*	*08/26/24 22:38*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 14:53	1
Arsenic	**0.00161**	**J**	0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 15:05	1
Barium	**0.195**		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 15:05	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 15:05	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 15:05	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 15:05	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 15:05	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 15:05	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 15:05	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 15:05	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 15:05	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 15:05	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 15:05	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 15:05	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 15:05	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/20/24 09:30	08/27/24 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.25**		1.88	1.39	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-107A_24_08
Date Collected: 08/15/24 10:50
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 03:03	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 03:03	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 03:03	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 03:03	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/20/24 03:03	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 03:03	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 03:03	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 03:03	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 03:03	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/20/24 03:03	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 03:03	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 03:03	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/20/24 03:03	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 03:03	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 03:03	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 03:03	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 03:03	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 03:03	1
Benzene	<0.220		0.500	0.220	ug/L			08/20/24 03:03	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 03:03	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 03:03	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 03:03	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 03:03	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 03:03	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 03:03	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/20/24 03:03	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 03:03	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 03:03	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 03:03	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 03:03	1
cis-1,2-Dichloroethene	**0.223**	**J**	1.00	0.210	ug/L			08/20/24 03:03	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 03:03	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 03:03	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 03:03	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 03:03	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 03:03	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 03:03	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 03:03	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 03:03	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 03:03	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 03:03	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 03:03	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 03:03	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 03:03	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 03:03	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 03:03	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*08/20/24 03:03*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-107A_24_08

Lab Sample ID: 310-288458-9

Date Collected: 08/15/24 10:50

Matrix: Water

Date Received: 08/16/24 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/20/24 03:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/20/24 03:03*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 14:55	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 15:08	1
Barium	**0.199**		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 15:08	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 15:08	1
Cadmium	**0.000195**	**J**	0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 15:08	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 15:08	1
Cobalt	**0.000569**		0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 15:08	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 15:08	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 15:08	1
Nickel	**0.0103**		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 15:08	1
Selenium	**0.00147**	**J**	0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 15:08	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 15:08	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 15:08	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 15:08	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/19/24 13:42	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-107B_24_08
Date Collected: 08/15/24 11:45
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 03:25	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 03:25	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 03:25	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 03:25	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/20/24 03:25	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 03:25	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 03:25	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 03:25	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 03:25	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/20/24 03:25	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 03:25	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 03:25	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/20/24 03:25	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 03:25	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 03:25	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 03:25	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 03:25	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 03:25	1
Benzene	<0.220		0.500	0.220	ug/L			08/20/24 03:25	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 03:25	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 03:25	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 03:25	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 03:25	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 03:25	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 03:25	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/20/24 03:25	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 03:25	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 03:25	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 03:25	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 03:25	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/20/24 03:25	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 03:25	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 03:25	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 03:25	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 03:25	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 03:25	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 03:25	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 03:25	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 03:25	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 03:25	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 03:25	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 03:25	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 03:25	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 03:25	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 03:25	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 03:25	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*08/20/24 03:25*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-107B_24_08
Date Collected: 08/15/24 11:45
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/20/24 03:25*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/20/24 03:25*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 14:57	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 15:12	1
Barium	**0.326**		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 15:12	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 15:12	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 15:12	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 15:12	1
Cobalt	**0.00224**		0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 15:12	1
Copper	**0.00239**	**J**	0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 15:12	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 15:12	1
Nickel	**0.0113**		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 15:12	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 15:12	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 15:12	1
Thallium	**0.00181**		0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 15:12	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 15:12	1
Zinc	**0.0101**	**J**	0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/19/24 13:42	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-109A_24_08
Date Collected: 08/15/24 14:40
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 03:48	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 03:48	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 03:48	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 03:48	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/20/24 03:48	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 03:48	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 03:48	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 03:48	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 03:48	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/20/24 03:48	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 03:48	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 03:48	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/20/24 03:48	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 03:48	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 03:48	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 03:48	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 03:48	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 03:48	1
Benzene	<0.220		0.500	0.220	ug/L			08/20/24 03:48	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 03:48	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 03:48	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 03:48	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 03:48	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 03:48	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 03:48	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/20/24 03:48	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 03:48	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 03:48	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 03:48	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 03:48	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/20/24 03:48	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 03:48	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 03:48	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 03:48	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 03:48	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 03:48	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 03:48	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 03:48	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 03:48	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 03:48	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 03:48	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 03:48	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 03:48	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 03:48	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 03:48	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 03:48	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*08/20/24 03:48*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-109A_24_08
Date Collected: 08/15/24 14:40
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/20/24 03:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/20/24 03:48*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 14:59	1
Arsenic	**0.000615**	**J**	0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 15:15	1
Barium	**0.191**		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 15:15	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 15:15	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 15:15	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 15:15	1
Cobalt	**0.000307**	**J**	0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 15:15	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 15:15	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 15:15	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 15:15	1
Selenium	**0.00822**		0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 15:15	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 15:15	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 15:15	1
Vanadium	**0.00112**	**J**	0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 15:15	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-109B_24_08
Date Collected: 08/15/24 15:25
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 04:11	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 04:11	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 04:11	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 04:11	1
1,1-Dichloroethane	**0.825**	**J**	1.00	0.220	ug/L			08/20/24 04:11	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 04:11	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 04:11	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 04:11	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 04:11	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/20/24 04:11	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 04:11	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 04:11	1
1,4-Dichlorobenzene	**1.48**		1.00	0.230	ug/L			08/20/24 04:11	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 04:11	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 04:11	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 04:11	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 04:11	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 04:11	1
Benzene	<0.220		0.500	0.220	ug/L			08/20/24 04:11	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 04:11	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 04:11	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 04:11	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 04:11	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 04:11	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 04:11	1
Chlorobenzene	**7.14**		1.00	0.400	ug/L			08/20/24 04:11	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 04:11	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 04:11	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 04:11	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 04:11	1
cis-1,2-Dichloroethene	**0.403**	**J**	1.00	0.210	ug/L			08/20/24 04:11	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 04:11	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 04:11	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 04:11	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 04:11	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 04:11	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 04:11	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 04:11	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 04:11	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 04:11	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 04:11	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 04:11	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 04:11	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 04:11	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 04:11	1
Vinyl chloride	**0.224**	**J**	1.00	0.180	ug/L			08/20/24 04:11	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*08/20/24 04:11*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-109B_24_08
Date Collected: 08/15/24 15:25
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/20/24 04:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/20/24 04:11*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 15:01	1
Arsenic	**0.0214**		0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 15:19	1
Barium	**0.681**		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 15:19	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 15:19	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 15:19	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 15:19	1
Cobalt	**0.0173**		0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 15:19	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 15:19	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 15:19	1
Nickel	**0.0320**		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 15:19	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 15:19	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 15:19	1
Thallium	**0.00378**		0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 15:19	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 15:19	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**10.8**		3.00	2.22	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: FD-2_24_08
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/20/24 04:33	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/20/24 04:33	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/20/24 04:33	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/20/24 04:33	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/20/24 04:33	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/20/24 04:33	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/20/24 04:33	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/20/24 04:33	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/20/24 04:33	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/20/24 04:33	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/20/24 04:33	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/20/24 04:33	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/20/24 04:33	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/20/24 04:33	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/20/24 04:33	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/20/24 04:33	1
Acetone	<3.10		10.0	3.10	ug/L			08/20/24 04:33	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/20/24 04:33	1
Benzene	<0.220		0.500	0.220	ug/L			08/20/24 04:33	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/20/24 04:33	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/20/24 04:33	1
Bromoform	<0.780		5.00	0.780	ug/L			08/20/24 04:33	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/20/24 04:33	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/20/24 04:33	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/20/24 04:33	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/20/24 04:33	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/20/24 04:33	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/20/24 04:33	1
Chloroform	<1.30		3.00	1.30	ug/L			08/20/24 04:33	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/20/24 04:33	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/20/24 04:33	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/20/24 04:33	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/20/24 04:33	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/20/24 04:33	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/20/24 04:33	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/20/24 04:33	1
Styrene	<0.370		1.00	0.370	ug/L			08/20/24 04:33	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/20/24 04:33	1
Toluene	<0.430		1.00	0.430	ug/L			08/20/24 04:33	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/20/24 04:33	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/20/24 04:33	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/20/24 04:33	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/20/24 04:33	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/20/24 04:33	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/20/24 04:33	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/20/24 04:33	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/20/24 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*08/20/24 04:33*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: FD-2_24_08
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/20/24 04:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/20/24 04:33*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 15:04	1
Arsenic	**0.000753**	**J**	0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 15:23	1
Barium	**0.0351**		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 15:23	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 15:23	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 15:23	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 15:23	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 15:23	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 15:23	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 15:23	1
Nickel	**0.0150**		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 15:23	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 15:23	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 15:23	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 15:23	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 15:23	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**3.75**		1.88	1.39	mg/L			08/19/24 14:07	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: TB-2_24_08
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/19/24 23:17	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/19/24 23:17	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/19/24 23:17	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/19/24 23:17	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/19/24 23:17	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/19/24 23:17	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/19/24 23:17	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/19/24 23:17	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/19/24 23:17	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/19/24 23:17	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/19/24 23:17	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/19/24 23:17	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/19/24 23:17	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/19/24 23:17	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/19/24 23:17	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/19/24 23:17	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/19/24 23:17	1
Acetone	**3.67**	**J**	10.0	3.10	ug/L			08/19/24 23:17	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/19/24 23:17	1
Benzene	<0.220		0.500	0.220	ug/L			08/19/24 23:17	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/19/24 23:17	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/19/24 23:17	1
Bromoform	<0.780		5.00	0.780	ug/L			08/19/24 23:17	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/19/24 23:17	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/19/24 23:17	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/19/24 23:17	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/19/24 23:17	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/19/24 23:17	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/19/24 23:17	1
Chloroform	<1.30		3.00	1.30	ug/L			08/19/24 23:17	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/19/24 23:17	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/19/24 23:17	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/19/24 23:17	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/19/24 23:17	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/19/24 23:17	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/19/24 23:17	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/19/24 23:17	1
Styrene	<0.370		1.00	0.370	ug/L			08/19/24 23:17	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/19/24 23:17	1
Toluene	<0.430		1.00	0.430	ug/L			08/19/24 23:17	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/19/24 23:17	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/19/24 23:17	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/19/24 23:17	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/19/24 23:17	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/19/24 23:17	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/19/24 23:17	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/19/24 23:17	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/19/24 23:17	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: TB-2_24_08
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 13:30

Lab Sample ID: 310-288458-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		08/19/24 23:17	1
Toluene-d8 (Surr)	95		80 - 120		08/19/24 23:17	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/19/24 23:17	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-288458-1	MW-13_24_08	104	93	100
310-288458-2	MW-14_24_08	102	95	101
310-288458-3	MW-15_24_08	102	94	101
310-288458-3 MS	MW-15_24_08	100	94	98
310-288458-3 MSD	MW-15_24_08	101	93	99
310-288458-4	MW-16_24_08	104	92	101
310-288458-5	MW-19_24_08	102	93	103
310-288458-6	MW-20_24_08	101	92	101
310-288458-7	MW-24_24_08	101	94	99
310-288458-8	MW-25_24_08	103	92	103
310-288458-9	MW-107A_24_08	103	94	101
310-288458-10	MW-107B_24_08	104	94	101
310-288458-11	MW-109A_24_08	102	93	99
310-288458-12	MW-109B_24_08	104	93	101
310-288458-13	FD-2_24_08	103	93	100
310-288458-14	TB-2_24_08	102	95	99
LCS 310-430749/6	Lab Control Sample	101	94	98
LCS 310-430749/7	Lab Control Sample	104	94	101
MB 310-430749/5	Method Blank	101	94	103

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(45-129)	(39-118)	(12-144)
310-288458-3	MW-15_24_08	72	69	59
310-288458-5	MW-19_24_08	63	61	47
310-288458-7	MW-24_24_08	69	64	48
310-288458-8	MW-25_24_08	66	59	51
LCS 310-430787/2-A	Lab Control Sample	58	53	65
LCSD 310-430787/3-A	Lab Control Sample Dup	66	62	75
MB 310-430787/1-A	Method Blank	68	61	77

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(25-130)
310-288458-1	MW-13_24_08	82

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288458-1
Project/Site: CRLCSWA_1
SDG: 24C034.00

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(25-130)
310-288458-4	MW-16_24_08	71
310-288458-7	MW-24_24_08	81
LB 500-782112/1-C	Method Blank	78
LCS 500-782562/2-A	Lab Control Sample	91
LCSD 500-782562/3-A	Lab Control Sample Dup	87
MB 500-782562/1-A	Method Blank	77

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(25-130)
500-255246-B-1-F MS	Matrix Spike	90

Surrogate Legend

DCPAA = DCAA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-430749/5
Matrix: Water
Analysis Batch: 430749

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/19/24 22:10	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/19/24 22:10	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/19/24 22:10	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/19/24 22:10	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/19/24 22:10	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/19/24 22:10	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/19/24 22:10	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/19/24 22:10	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/19/24 22:10	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/19/24 22:10	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/19/24 22:10	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/19/24 22:10	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/19/24 22:10	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/19/24 22:10	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/19/24 22:10	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/19/24 22:10	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/19/24 22:10	1
Acetone	<3.10		10.0	3.10	ug/L			08/19/24 22:10	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/19/24 22:10	1
Benzene	<0.220		0.500	0.220	ug/L			08/19/24 22:10	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/19/24 22:10	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/19/24 22:10	1
Bromoform	<0.780		5.00	0.780	ug/L			08/19/24 22:10	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/19/24 22:10	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/19/24 22:10	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/19/24 22:10	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/19/24 22:10	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/19/24 22:10	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/19/24 22:10	1
Chloroform	<1.30		3.00	1.30	ug/L			08/19/24 22:10	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/19/24 22:10	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/19/24 22:10	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/19/24 22:10	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/19/24 22:10	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/19/24 22:10	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/19/24 22:10	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/19/24 22:10	1
Styrene	<0.370		1.00	0.370	ug/L			08/19/24 22:10	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/19/24 22:10	1
Toluene	<0.430		1.00	0.430	ug/L			08/19/24 22:10	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/19/24 22:10	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/19/24 22:10	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/19/24 22:10	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/19/24 22:10	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/19/24 22:10	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/19/24 22:10	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/19/24 22:10	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/19/24 22:10	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-430749/5
Matrix: Water
Analysis Batch: 430749

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*08/19/24 22:10*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/19/24 22:10*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/19/24 22:10*	*1*

Lab Sample ID: LCS 310-430749/6
Matrix: Water
Analysis Batch: 430749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	18.81		ug/L		94	71 - 120
1,1,1-Trichloroethane	20.0	23.03		ug/L		115	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.44		ug/L		97	68 - 124
1,1,2-Trichloroethane	20.0	22.33		ug/L		112	73 - 123
1,1-Dichloroethane	20.0	23.30		ug/L		117	70 - 127
1,1-Dichloroethene	20.0	25.62		ug/L		128	63 - 132
1,2,3-Trichloropropane	20.0	19.13		ug/L		96	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	17.99		ug/L		90	50 - 150
1,2-Dibromoethane (EDB)	20.0	22.06		ug/L		110	75 - 125
1,2-Dichlorobenzene	20.0	19.80		ug/L		99	74 - 120
1,2-Dichloroethane	20.0	20.80		ug/L		104	71 - 125
1,2-Dichloropropane	20.0	23.46		ug/L		117	73 - 124
1,3-Dichlorobenzene	20.0	19.96		ug/L		100	72 - 120
1,4-Dichlorobenzene	20.0	18.50		ug/L		93	72 - 120
2-Butanone (MEK)	40.0	42.61		ug/L		107	50 - 150
2-Hexanone	40.0	43.24		ug/L		108	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	44.98		ug/L		112	60 - 139
Acetone	40.0	45.21		ug/L		113	50 - 150
Acrylonitrile	200	220.4		ug/L		110	50 - 150
Benzene	20.0	23.00		ug/L		115	72 - 124
Bromochloromethane	20.0	23.40		ug/L		117	73 - 130
Bromodichloromethane	20.0	20.88		ug/L		104	74 - 122
Bromoform	20.0	17.81		ug/L		89	61 - 122
Carbon disulfide	20.0	25.18		ug/L		126	59 - 135
Carbon tetrachloride	20.0	20.48		ug/L		102	67 - 132
Chlorobenzene	20.0	19.82		ug/L		99	76 - 120
Chlorodibromomethane	20.0	21.26		ug/L		106	71 - 121
Chloroform	20.0	21.47		ug/L		107	72 - 125
cis-1,2-Dichloroethene	20.0	23.61		ug/L		118	74 - 123
cis-1,3-Dichloropropene	20.0	23.49		ug/L		117	71 - 125
Dibromomethane	20.0	21.28		ug/L		106	74 - 125
Ethylbenzene	20.0	20.64		ug/L		103	74 - 122
Iodomethane	20.0	21.39		ug/L		107	10 - 150
Methylene Chloride	20.0	23.01		ug/L		115	50 - 150
Styrene	20.0	20.80		ug/L		104	74 - 121
Tetrachloroethene	20.0	21.39		ug/L		107	71 - 130
Toluene	20.0	22.76		ug/L		114	74 - 123
trans-1,2-Dichloroethene	20.0	24.89		ug/L		124	70 - 126
trans-1,3-Dichloropropene	20.0	19.86		ug/L		99	69 - 123

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-430749/6
Matrix: Water
Analysis Batch: 430749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,4-Dichloro-2-butene	20.0	15.06		ug/L		75	50 - 150
Trichloroethene	20.0	23.09		ug/L		115	72 - 126
Vinyl acetate	40.0	43.08		ug/L		108	50 - 150
Xylenes, Total	40.0	42.37		ug/L		106	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: LCS 310-430749/7
Matrix: Water
Analysis Batch: 430749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	22.10		ug/L		110	23 - 150
Chloroethane	20.0	19.77		ug/L		99	54 - 136
Chloromethane	20.0	20.77		ug/L		104	38 - 150
Trichlorofluoromethane	20.0	18.84		ug/L		94	54 - 149
Vinyl chloride	20.0	20.04		ug/L		100	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*73 - 130*
Toluene-d8 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: 310-288458-3 MS
Matrix: Water
Analysis Batch: 430749

Client Sample ID: MW-15_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.380		25.0	24.65		ug/L		99	55 - 130
1,1,1-Trichloroethane	<0.190		25.0	25.45		ug/L		102	52 - 130
1,1,2,2-Tetrachloroethane	<0.470		25.0	25.46		ug/L		102	54 - 130
1,1,2-Trichloroethane	<0.450		25.0	28.01		ug/L		112	58 - 130
1,1-Dichloroethane	<0.220		25.0	25.69		ug/L		103	49 - 130
1,1-Dichloroethene	<0.560		25.0	29.02		ug/L		116	37 - 132
1,2,3-Trichloropropane	<0.590		25.0	25.44		ug/L		102	49 - 130
1,2-Dibromo-3-Chloropropane	<1.20		25.0	23.03		ug/L		92	38 - 150
1,2-Dibromoethane (EDB)	<0.340		25.0	27.97		ug/L		112	60 - 130
1,2-Dichlorobenzene	<0.370		25.0	24.74		ug/L		99	59 - 130
1,2-Dichloroethane	<0.390		25.0	25.19		ug/L		101	51 - 130
1,2-Dichloropropane	<0.270		25.0	27.40		ug/L		110	57 - 130
1,3-Dichlorobenzene	<0.300		25.0	24.92		ug/L		100	57 - 130
1,4-Dichlorobenzene	<0.230		25.0	23.29		ug/L		93	57 - 130
2-Butanone (MEK)	<2.10		50.0	53.24		ug/L		106	38 - 150
2-Hexanone	<2.00		50.0	57.14		ug/L		114	46 - 140
4-Methyl-2-pentanone (MIBK)	<2.10		50.0	59.11		ug/L		118	47 - 139

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288458-3 MS
Matrix: Water
Analysis Batch: 430749

Client Sample ID: MW-15_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<3.10		50.0	54.34		ug/L		109	31 - 150
Acrylonitrile	<2.20		250	270.3		ug/L		108	40 - 150
Benzene	<0.220		25.0	26.23		ug/L		105	46 - 130
Bromochloromethane	<0.540		25.0	27.74		ug/L		111	57 - 130
Bromodichloromethane	<0.390		25.0	26.37		ug/L		105	57 - 130
Bromoform	<0.780		25.0	23.57		ug/L		94	44 - 130
Carbon disulfide	<0.450		25.0	31.90		ug/L		128	38 - 135
Carbon tetrachloride	<0.650		25.0	22.70		ug/L		91	45 - 132
Chlorobenzene	<0.400		25.0	24.87		ug/L		99	59 - 130
Chlorodibromomethane	<0.750		25.0	27.68		ug/L		111	54 - 130
Chloroform	<1.30		25.0	24.68		ug/L		99	51 - 130
cis-1,2-Dichloroethene	<0.210		25.0	27.13		ug/L		109	45 - 130
cis-1,3-Dichloropropene	<0.250		25.0	27.90		ug/L		112	53 - 130
Dibromomethane	<0.330		25.0	26.68		ug/L		107	59 - 130
Ethylbenzene	<0.310		25.0	24.69		ug/L		99	45 - 130
Iodomethane	<7.00		25.0	23.79		ug/L		95	10 - 150
Methylene Chloride	<1.70		25.0	26.85		ug/L		107	37 - 150
Styrene	<0.370		25.0	26.73		ug/L		107	47 - 130
Tetrachloroethene	<0.480		25.0	25.43		ug/L		102	47 - 130
Toluene	<0.430		25.0	26.36		ug/L		105	51 - 130
trans-1,2-Dichloroethene	<0.270		25.0	28.91		ug/L		116	48 - 130
trans-1,3-Dichloropropene	<0.560		25.0	25.11		ug/L		100	50 - 130
trans-1,4-Dichloro-2-butene	<1.10		25.0	20.56		ug/L		82	26 - 150
Trichloroethene	<0.430		25.0	26.67		ug/L		107	51 - 130
Vinyl acetate	<2.50		50.0	45.90		ug/L		92	29 - 150
Xylenes, Total	<0.400		50.0	51.37		ug/L		103	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: 310-288458-3 MSD
Matrix: Water
Analysis Batch: 430749

Client Sample ID: MW-15_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		25.0	24.74		ug/L		99	55 - 130	0	20
1,1,1-Trichloroethane	<0.190		25.0	25.24		ug/L		101	52 - 130	1	20
1,1,2,2-Tetrachloroethane	<0.470		25.0	25.50		ug/L		102	54 - 130	0	20
1,1,2-Trichloroethane	<0.450		25.0	28.54		ug/L		114	58 - 130	2	20
1,1-Dichloroethane	<0.220		25.0	26.06		ug/L		104	49 - 130	1	20
1,1-Dichloroethene	<0.560		25.0	28.39		ug/L		114	37 - 132	2	26
1,2,3-Trichloropropane	<0.590		25.0	25.11		ug/L		100	49 - 130	1	26
1,2-Dibromo-3-Chloropropane	<1.20		25.0	23.30		ug/L		93	38 - 150	1	20
1,2-Dibromoethane (EDB)	<0.340		25.0	27.92		ug/L		112	60 - 130	0	20
1,2-Dichlorobenzene	<0.370		25.0	24.73		ug/L		99	59 - 130	0	20
1,2-Dichloroethane	<0.390		25.0	24.54		ug/L		98	51 - 130	3	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288458-3 MSD
Matrix: Water
Analysis Batch: 430749

Client Sample ID: MW-15_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane	<0.270		25.0	27.22		ug/L		109	57 - 130	1	20
1,3-Dichlorobenzene	<0.300		25.0	24.90		ug/L		100	57 - 130	0	20
1,4-Dichlorobenzene	<0.230		25.0	23.32		ug/L		93	57 - 130	0	20
2-Butanone (MEK)	<2.10		50.0	51.02		ug/L		102	38 - 150	4	20
2-Hexanone	<2.00		50.0	54.53		ug/L		109	46 - 140	5	20
4-Methyl-2-pentanone (MIBK)	<2.10		50.0	58.07		ug/L		116	47 - 139	2	20
Acetone	<3.10		50.0	47.68		ug/L		95	31 - 150	13	29
Acrylonitrile	<2.20		250	259.1		ug/L		104	40 - 150	4	20
Benzene	<0.220		25.0	25.91		ug/L		104	46 - 130	1	20
Bromochloromethane	<0.540		25.0	27.28		ug/L		109	57 - 130	2	20
Bromodichloromethane	<0.390		25.0	26.40		ug/L		106	57 - 130	0	20
Bromoform	<0.780		25.0	23.87		ug/L		95	44 - 130	1	20
Carbon disulfide	<0.450		25.0	28.74		ug/L		115	38 - 135	10	30
Carbon tetrachloride	<0.650		25.0	23.04		ug/L		92	45 - 132	2	20
Chlorobenzene	<0.400		25.0	24.34		ug/L		97	59 - 130	2	20
Chlorodibromomethane	<0.750		25.0	27.74		ug/L		111	54 - 130	0	20
Chloroform	<1.30		25.0	24.03		ug/L		96	51 - 130	3	20
cis-1,2-Dichloroethene	<0.210		25.0	26.72		ug/L		107	45 - 130	2	20
cis-1,3-Dichloropropene	<0.250		25.0	27.48		ug/L		110	53 - 130	2	20
Dibromomethane	<0.330		25.0	26.08		ug/L		104	59 - 130	2	20
Ethylbenzene	<0.310		25.0	24.45		ug/L		98	45 - 130	1	20
Iodomethane	<7.00		25.0	25.03		ug/L		100	10 - 150	5	35
Methylene Chloride	<1.70		25.0	26.22		ug/L		105	37 - 150	2	24
Styrene	<0.370		25.0	25.89		ug/L		104	47 - 130	3	20
Tetrachloroethene	<0.480		25.0	25.64		ug/L		103	47 - 130	1	20
Toluene	<0.430		25.0	25.52		ug/L		102	51 - 130	3	20
trans-1,2-Dichloroethene	<0.270		25.0	26.75		ug/L		107	48 - 130	8	22
trans-1,3-Dichloropropene	<0.560		25.0	25.40		ug/L		102	50 - 130	1	20
trans-1,4-Dichloro-2-butene	<1.10		25.0	20.12		ug/L		80	26 - 150	2	23
Trichloroethene	<0.430		25.0	26.17		ug/L		105	51 - 130	2	20
Vinyl acetate	<2.50		50.0	47.65		ug/L		95	29 - 150	4	23
Xylenes, Total	<0.400		50.0	50.16		ug/L		100	43 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-430787/1-A
Matrix: Water
Analysis Batch: 431424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/19/24 13:19	08/26/24 16:16	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-430787/1-A
Matrix: Water
Analysis Batch: 431424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430787

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	68		45 - 129	08/19/24 13:19	08/26/24 16:16	1
2-Fluorobiphenyl (Surr)	61		39 - 118	08/19/24 13:19	08/26/24 16:16	1
Terphenyl-d14 (Surr)	77		12 - 144	08/19/24 13:19	08/26/24 16:16	1

Lab Sample ID: LCS 310-430787/2-A
Matrix: Water
Analysis Batch: 431424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430787

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bis(2-ethylhexyl) phthalate			100	60.47		ug/L		60	43 - 143		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	58		45 - 129
2-Fluorobiphenyl (Surr)	53		39 - 118
Terphenyl-d14 (Surr)	65		12 - 144

Lab Sample ID: LCSD 310-430787/3-A
Matrix: Water
Analysis Batch: 431424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 430787

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			100	61.58		ug/L		62	43 - 143	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	66		45 - 129
2-Fluorobiphenyl (Surr)	62		39 - 118
Terphenyl-d14 (Surr)	75		12 - 144

Method: 8151A - Herbicides (GC)

Lab Sample ID: LB 500-782112/1-C
Matrix: Water
Analysis Batch: 782944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782562

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<30.7		100	30.7	ug/L		08/21/24 09:22	08/23/24 11:58	1
2,4,5-TP	<8.34		100	8.34	ug/L		08/21/24 09:22	08/23/24 11:58	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	78		25 - 130	08/21/24 09:22	08/23/24 11:58	1

Lab Sample ID: MB 500-782562/1-A
Matrix: Water
Analysis Batch: 782944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.307		1.00	0.307	ug/L		08/21/24 09:22	08/23/24 11:03	1
2,4,5-TP	<0.0834		1.00	0.0834	ug/L		08/21/24 09:22	08/23/24 11:03	1

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	77		25 - 130	08/21/24 09:22	08/23/24 11:03	1

Lab Sample ID: LCS 500-782562/2-A
Matrix: Water
Analysis Batch: 782944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782562

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			10.1	9.436		ug/L		94	30 - 115		
2,4,5-TP			2.50	2.293		ug/L		92	32 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCAA	91		25 - 130

Lab Sample ID: LCSD 500-782562/3-A
Matrix: Water
Analysis Batch: 782944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 782562

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			10.1	9.156		ug/L		91	30 - 115	3	20
2,4,5-TP			2.50	2.297		ug/L		92	32 - 115	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCAA	87		25 - 130

Lab Sample ID: 500-255246-B-1-F MS
Matrix: Water
Analysis Batch: 782944

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 782562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D	<30.7		1010	946.6		ug/L		94	30 - 115		
2,4,5-TP	<8.34		250	220.2		ug/L		88	32 - 115		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCAA	90		25 - 130

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-430802/1-A
Matrix: Water
Analysis Batch: 431092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/21/24 15:59	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/20/24 09:30	08/21/24 15:59	1
Barium	<0.000660		0.00200	0.000660	mg/L		08/20/24 09:30	08/21/24 15:59	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/21/24 15:59	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/21/24 15:59	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/21/24 15:59	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/20/24 09:30	08/21/24 15:59	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/21/24 15:59	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/21/24 15:59	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-430802/1-A
Matrix: Water
Analysis Batch: 431092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/21/24 15:59	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/21/24 15:59	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/21/24 15:59	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/21/24 15:59	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/21/24 15:59	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/20/24 09:30	08/21/24 15:59	1

Lab Sample ID: MB 310-430802/1-A
Matrix: Water
Analysis Batch: 431230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00210		0.00500	0.00210	mg/L		08/20/24 09:30	08/22/24 15:00	1

Lab Sample ID: LCS 310-430802/2-A
Matrix: Water
Analysis Batch: 431092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2217		mg/L		111	80 - 120
Arsenic	0.200	0.2019		mg/L		101	80 - 120
Barium	0.100	0.1043		mg/L		104	80 - 120
Beryllium	0.100	0.1009		mg/L		101	80 - 120
Cadmium	0.100	0.1014		mg/L		101	80 - 120
Chromium	0.100	0.09277		mg/L		93	80 - 120
Cobalt	0.100	0.09833		mg/L		98	80 - 120
Copper	0.200	0.2056		mg/L		103	80 - 120
Lead	0.200	0.2084		mg/L		104	80 - 120
Selenium	0.400	0.3873		mg/L		97	80 - 120
Silver	0.100	0.1145		mg/L		115	80 - 120
Thallium	0.100	0.1089		mg/L		109	80 - 120
Vanadium	0.100	0.08876		mg/L		89	80 - 120
Zinc	0.200	0.1971		mg/L		99	80 - 120
Tin	0.200	0.1950		mg/L		98	80 - 120

Lab Sample ID: LCS 310-430802/2-A
Matrix: Water
Analysis Batch: 431230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.2103		mg/L		105	80 - 120

Lab Sample ID: 310-288388-A-1-B MS
Matrix: Water
Analysis Batch: 431092

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 430802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00100		0.200	0.2274		mg/L		114	75 - 125
Arsenic	0.00998		0.200	0.2168		mg/L		103	75 - 125
Barium	0.0749		0.100	0.1775		mg/L		103	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-288388-A-1-B MS
Matrix: Water
Analysis Batch: 431092

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 430802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.000330		0.100	0.1074		mg/L		107	75 - 125
Cadmium	0.000402		0.100	0.09445		mg/L		94	75 - 125
Chromium	0.00320	J	0.100	0.09148		mg/L		88	75 - 125
Cobalt	0.000787		0.100	0.09417		mg/L		93	75 - 125
Copper	0.00389	J	0.200	0.1953		mg/L		96	75 - 125
Lead	<0.000260		0.200	0.1902		mg/L		95	75 - 125
Selenium	0.0821		0.400	0.4810		mg/L		100	75 - 125
Silver	<0.000500		0.100	0.09575		mg/L		96	75 - 125
Thallium	<0.000570		0.100	0.07755		mg/L		78	75 - 125
Vanadium	0.0552		0.100	0.1502		mg/L		95	75 - 125
Zinc	0.0325		0.200	0.2424		mg/L		105	75 - 125
Tin	<0.00230		0.200	0.2041		mg/L		102	75 - 125

Lab Sample ID: 310-288388-A-1-C MSD
Matrix: Water
Analysis Batch: 431092

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 430802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00100		0.200	0.2292		mg/L		115	75 - 125	1	20
Arsenic	0.00998		0.200	0.2198		mg/L		105	75 - 125	1	20
Barium	0.0749		0.100	0.1810		mg/L		106	75 - 125	2	20
Beryllium	<0.000330		0.100	0.1087		mg/L		109	75 - 125	1	20
Cadmium	0.000402		0.100	0.09495		mg/L		95	75 - 125	1	20
Chromium	0.00320	J	0.100	0.09232		mg/L		89	75 - 125	1	20
Cobalt	0.000787		0.100	0.09574		mg/L		95	75 - 125	2	20
Copper	0.00389	J	0.200	0.1979		mg/L		97	75 - 125	1	20
Lead	<0.000260		0.200	0.1910		mg/L		95	75 - 125	0	20
Selenium	0.0821		0.400	0.4866		mg/L		101	75 - 125	1	20
Silver	<0.000500		0.100	0.09556		mg/L		96	75 - 125	0	20
Thallium	<0.000570		0.100	0.08017		mg/L		80	75 - 125	3	20
Vanadium	0.0552		0.100	0.1513		mg/L		96	75 - 125	1	20
Zinc	0.0325		0.200	0.2472		mg/L		107	75 - 125	2	20
Tin	<0.00230		0.200	0.2059		mg/L		103	75 - 125	1	20

Lab Sample ID: 310-288308-A-2-B DU
Matrix: Water
Analysis Batch: 431092

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 430802

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00100		<0.00100		mg/L		NC	20
Arsenic	0.00182	J	0.001883	J	mg/L		3	20
Barium	0.0621		0.06227		mg/L		0.2	20
Beryllium	<0.000330		<0.000330		mg/L		NC	20
Cadmium	<0.000100		<0.000100		mg/L		NC	20
Chromium	<0.00120		<0.00120		mg/L		NC	20
Cobalt	0.000361	J	0.0003730	J	mg/L		3	20
Copper	<0.00180		<0.00180		mg/L		NC	20
Lead	<0.000260		<0.000260		mg/L		NC	20
Selenium	<0.00140		<0.00140		mg/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-288308-A-2-B DU
Matrix: Water
Analysis Batch: 431092

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 430802

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	<0.000500		<0.000500		mg/L		NC	20
Thallium	<0.000570		<0.000570		mg/L		NC	20
Vanadium	<0.00110		<0.00110		mg/L		NC	20
Zinc	<0.00970		<0.00970		mg/L		NC	20
Tin	<0.00230		<0.00230		mg/L		NC	20

Lab Sample ID: 310-288308-A-2-B DU
Matrix: Water
Analysis Batch: 431230

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 430802

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	<0.00210		<0.00210		mg/L		NC	20

Lab Sample ID: MB 310-430806/1-A
Matrix: Water
Analysis Batch: 431590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/20/24 09:30	08/27/24 14:18	1
Barium	<0.000660		0.00200	0.000660	mg/L		08/20/24 09:30	08/27/24 14:18	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/20/24 09:30	08/27/24 14:18	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/20/24 09:30	08/27/24 14:18	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/20/24 09:30	08/27/24 14:18	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/20/24 09:30	08/27/24 14:18	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/20/24 09:30	08/27/24 14:18	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/20/24 09:30	08/27/24 14:18	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/20/24 09:30	08/27/24 14:18	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/20/24 09:30	08/27/24 14:18	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/20/24 09:30	08/27/24 14:18	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/20/24 09:30	08/27/24 14:18	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/20/24 09:30	08/27/24 14:18	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/20/24 09:30	08/27/24 14:18	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/20/24 09:30	08/27/24 14:18	1

Lab Sample ID: MB 310-430806/1-A
Matrix: Water
Analysis Batch: 431692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/20/24 09:30	08/28/24 14:29	1

Lab Sample ID: LCS 310-430806/2-A
Matrix: Water
Analysis Batch: 431590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2191		mg/L		110	80 - 120
Barium	0.100	0.1043		mg/L		104	80 - 120
Beryllium	0.100	0.1090		mg/L		109	80 - 120
Cadmium	0.100	0.1005		mg/L		100	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-430806/2-A
Matrix: Water
Analysis Batch: 431590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			0.100	0.1090		mg/L		109	80 - 120		
Cobalt			0.100	0.1102		mg/L		110	80 - 120		
Copper			0.200	0.2206		mg/L		110	80 - 120		
Lead			0.200	0.2146		mg/L		107	80 - 120		
Nickel			0.200	0.2201		mg/L		110	80 - 120		
Selenium			0.400	0.3964		mg/L		99	80 - 120		
Silver			0.100	0.1161		mg/L		116	80 - 120		
Thallium			0.100	0.09766		mg/L		98	80 - 120		
Vanadium			0.100	0.1040		mg/L		104	80 - 120		
Zinc			0.200	0.2053		mg/L		103	80 - 120		
Tin			0.200	0.2136		mg/L		107	80 - 120		

Lab Sample ID: LCS 310-430806/2-A
Matrix: Water
Analysis Batch: 431692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony			0.200	0.2289		mg/L		114	80 - 120		

Lab Sample ID: 310-288458-5 MS
Matrix: Water
Analysis Batch: 431590

Client Sample ID: MW-19_24_08
Prep Type: Total/NA
Prep Batch: 430806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	0.000834	J	0.200	0.2341		mg/L		117	75 - 125		
Barium	0.0327		0.100	0.1406		mg/L		108	75 - 125		
Beryllium	<0.000330		0.100	0.1094		mg/L		109	75 - 125		
Cadmium	<0.000100		0.100	0.1045		mg/L		104	75 - 125		
Chromium	<0.00120		0.100	0.1107		mg/L		111	75 - 125		
Cobalt	<0.000170		0.100	0.1084		mg/L		108	75 - 125		
Copper	<0.00180		0.200	0.2055		mg/L		103	75 - 125		
Lead	<0.000260		0.200	0.2080		mg/L		104	75 - 125		
Nickel	0.0144		0.200	0.2067		mg/L		96	75 - 125		
Selenium	<0.00140		0.400	0.4249		mg/L		106	75 - 125		
Silver	0.000889	J	0.100	0.1181		mg/L		117	75 - 125		
Thallium	<0.000570		0.100	0.09115		mg/L		91	75 - 125		
Vanadium	<0.00110		0.100	0.1102		mg/L		110	75 - 125		
Zinc	<0.00970		0.200	0.1973		mg/L		99	75 - 125		
Tin	<0.00230		0.200	0.2247		mg/L		112	75 - 125		

Lab Sample ID: 310-288458-5 MS
Matrix: Water
Analysis Batch: 431692

Client Sample ID: MW-19_24_08
Prep Type: Total/NA
Prep Batch: 430806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	<0.00100		0.200	0.2338		mg/L		117	75 - 125		

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-288458-5 MSD
Matrix: Water
Analysis Batch: 431590

Client Sample ID: MW-19_24_08
Prep Type: Total/NA
Prep Batch: 430806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.000834	J	0.200	0.2255		mg/L		112	75 - 125	4	20
Barium	0.0327		0.100	0.1343		mg/L		102	75 - 125	5	20
Beryllium	<0.000330		0.100	0.1041		mg/L		104	75 - 125	5	20
Cadmium	<0.000100		0.100	0.09889		mg/L		99	75 - 125	6	20
Chromium	<0.00120		0.100	0.1047		mg/L		105	75 - 125	6	20
Cobalt	<0.000170		0.100	0.1032		mg/L		103	75 - 125	5	20
Copper	<0.00180		0.200	0.1969		mg/L		98	75 - 125	4	20
Lead	<0.000260		0.200	0.2005		mg/L		100	75 - 125	4	20
Nickel	0.0144		0.200	0.2075		mg/L		97	75 - 125	0	20
Selenium	<0.00140		0.400	0.4129		mg/L		103	75 - 125	3	20
Silver	0.000889	J	0.100	0.1093		mg/L		108	75 - 125	8	20
Thallium	<0.000570		0.100	0.08599		mg/L		86	75 - 125	6	20
Vanadium	<0.00110		0.100	0.1049		mg/L		105	75 - 125	5	20
Zinc	<0.00970		0.200	0.1902		mg/L		95	75 - 125	4	20
Tin	<0.00230		0.200	0.2157		mg/L		108	75 - 125	4	20

Lab Sample ID: 310-288458-5 MSD
Matrix: Water
Analysis Batch: 431692

Client Sample ID: MW-19_24_08
Prep Type: Total/NA
Prep Batch: 430806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00100		0.200	0.2261		mg/L		113	75 - 125	3	20

Lab Sample ID: 310-288459-E-2-B DU
Matrix: Water
Analysis Batch: 431590

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 430806

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic			0.08976		mg/L			
Barium			1.375		mg/L			
Beryllium			0.001032		mg/L			
Cadmium			0.001475		mg/L			
Chromium			0.02616		mg/L			
Cobalt			0.02847		mg/L			
Copper			0.06258		mg/L			
Lead			0.2439		mg/L			
Nickel			0.04217		mg/L			
Selenium			0.005086		mg/L			
Silver			0.0005380	J	mg/L			
Thallium			<0.000570		mg/L			
Vanadium			0.04921		mg/L			
Zinc			0.3428		mg/L			
Tin			0.007968		mg/L			

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-430790/1
Matrix: Water
Analysis Batch: 430790

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/19/24 13:42	1

Lab Sample ID: LCS 310-430790/2
Matrix: Water
Analysis Batch: 430790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	104.0		mg/L		104	81 - 116

Lab Sample ID: 310-288260-B-3 DU
Matrix: Water
Analysis Batch: 430790

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	413		446.7		mg/L		8	35

Lab Sample ID: MB 310-430791/1
Matrix: Water
Analysis Batch: 430791

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/19/24 14:07	1

Lab Sample ID: LCS 310-430791/2
Matrix: Water
Analysis Batch: 430791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	113.0		mg/L		113	81 - 116

Lab Sample ID: 310-288458-1 DU
Matrix: Water
Analysis Batch: 430791

Client Sample ID: MW-13_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	127		127.0		mg/L		0	35

GC/MS VOA

Analysis Batch: 430749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-1	MW-13_24_08	Total/NA	Water	8260D	
310-288458-2	MW-14_24_08	Total/NA	Water	8260D	
310-288458-3	MW-15_24_08	Total/NA	Water	8260D	
310-288458-4	MW-16_24_08	Total/NA	Water	8260D	
310-288458-5	MW-19_24_08	Total/NA	Water	8260D	
310-288458-6	MW-20_24_08	Total/NA	Water	8260D	
310-288458-7	MW-24_24_08	Total/NA	Water	8260D	
310-288458-8	MW-25_24_08	Total/NA	Water	8260D	
310-288458-9	MW-107A_24_08	Total/NA	Water	8260D	
310-288458-10	MW-107B_24_08	Total/NA	Water	8260D	
310-288458-11	MW-109A_24_08	Total/NA	Water	8260D	
310-288458-12	MW-109B_24_08	Total/NA	Water	8260D	
310-288458-13	FD-2_24_08	Total/NA	Water	8260D	
310-288458-14	TB-2_24_08	Total/NA	Water	8260D	
MB 310-430749/5	Method Blank	Total/NA	Water	8260D	
LCS 310-430749/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-430749/7	Lab Control Sample	Total/NA	Water	8260D	
310-288458-3 MS	MW-15_24_08	Total/NA	Water	8260D	
310-288458-3 MSD	MW-15_24_08	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 430787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-3	MW-15_24_08	Total/NA	Water	3510C	
310-288458-5	MW-19_24_08	Total/NA	Water	3510C	
310-288458-7	MW-24_24_08	Total/NA	Water	3510C	
310-288458-8	MW-25_24_08	Total/NA	Water	3510C	
MB 310-430787/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-430787/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-430787/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 431424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-3	MW-15_24_08	Total/NA	Water	8270E	430787
310-288458-5	MW-19_24_08	Total/NA	Water	8270E	430787
310-288458-7	MW-24_24_08	Total/NA	Water	8270E	430787
310-288458-8	MW-25_24_08	Total/NA	Water	8270E	430787
MB 310-430787/1-A	Method Blank	Total/NA	Water	8270E	430787
LCS 310-430787/2-A	Lab Control Sample	Total/NA	Water	8270E	430787
LCSD 310-430787/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	430787

GC Semi VOA

Leach Batch: 782112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-782112/1-C	Method Blank	Total/NA	Water	1311	
500-255246-B-1-F MS	Matrix Spike	TCLP	Water	1311	

Prep Batch: 782562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-1	MW-13_24_08	Total/NA	Water	8151A	

GC Semi VOA (Continued)

Prep Batch: 782562 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-4	MW-16_24_08	Total/NA	Water	8151A	
310-288458-7	MW-24_24_08	Total/NA	Water	8151A	
LB 500-782112/1-C	Method Blank	Total/NA	Water	8151A	782112
MB 500-782562/1-A	Method Blank	Total/NA	Water	8151A	
LCS 500-782562/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 500-782562/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
500-255246-B-1-F MS	Matrix Spike	TCLP	Water	8151A	782112

Analysis Batch: 782944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-1	MW-13_24_08	Total/NA	Water	8151A	782562
310-288458-4	MW-16_24_08	Total/NA	Water	8151A	782562
310-288458-7	MW-24_24_08	Total/NA	Water	8151A	782562
LB 500-782112/1-C	Method Blank	Total/NA	Water	8151A	782562
MB 500-782562/1-A	Method Blank	Total/NA	Water	8151A	782562
LCS 500-782562/2-A	Lab Control Sample	Total/NA	Water	8151A	782562
LCSD 500-782562/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	782562
500-255246-B-1-F MS	Matrix Spike	TCLP	Water	8151A	782562

Metals

Prep Batch: 430802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-1	MW-13_24_08	Total/NA	Water	3005A	
310-288458-2	MW-14_24_08	Total/NA	Water	3005A	
310-288458-3	MW-15_24_08	Total/NA	Water	3005A	
310-288458-4	MW-16_24_08	Total/NA	Water	3005A	
MB 310-430802/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-430802/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-288388-A-1-B MS	Matrix Spike	Total/NA	Water	3005A	
310-288388-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	
310-288308-A-2-B DU	Duplicate	Total/NA	Water	3005A	

Prep Batch: 430806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-5	MW-19_24_08	Total/NA	Water	3005A	
310-288458-6	MW-20_24_08	Total/NA	Water	3005A	
310-288458-7	MW-24_24_08	Total/NA	Water	3005A	
310-288458-8	MW-25_24_08	Total/NA	Water	3005A	
310-288458-9	MW-107A_24_08	Total/NA	Water	3005A	
310-288458-10	MW-107B_24_08	Total/NA	Water	3005A	
310-288458-11	MW-109A_24_08	Total/NA	Water	3005A	
310-288458-12	MW-109B_24_08	Total/NA	Water	3005A	
310-288458-13	FD-2_24_08	Total/NA	Water	3005A	
MB 310-430806/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-430806/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-288458-5 MS	MW-19_24_08	Total/NA	Water	3005A	
310-288458-5 MSD	MW-19_24_08	Total/NA	Water	3005A	
310-288459-E-2-B DU	Duplicate	Total/NA	Water	3005A	

Metals

Analysis Batch: 431092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-1	MW-13_24_08	Total/NA	Water	6020B	430802
310-288458-2	MW-14_24_08	Total/NA	Water	6020B	430802
310-288458-3	MW-15_24_08	Total/NA	Water	6020B	430802
310-288458-4	MW-16_24_08	Total/NA	Water	6020B	430802
MB 310-430802/1-A	Method Blank	Total/NA	Water	6020B	430802
LCS 310-430802/2-A	Lab Control Sample	Total/NA	Water	6020B	430802
310-288388-A-1-B MS	Matrix Spike	Total/NA	Water	6020B	430802
310-288388-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020B	430802
310-288308-A-2-B DU	Duplicate	Total/NA	Water	6020B	430802

Analysis Batch: 431230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-1	MW-13_24_08	Total/NA	Water	6020B	430802
310-288458-2	MW-14_24_08	Total/NA	Water	6020B	430802
310-288458-3	MW-15_24_08	Total/NA	Water	6020B	430802
310-288458-4	MW-16_24_08	Total/NA	Water	6020B	430802
MB 310-430802/1-A	Method Blank	Total/NA	Water	6020B	430802
LCS 310-430802/2-A	Lab Control Sample	Total/NA	Water	6020B	430802
310-288308-A-2-B DU	Duplicate	Total/NA	Water	6020B	430802

Analysis Batch: 431590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-5	MW-19_24_08	Total/NA	Water	6020B	430806
310-288458-6	MW-20_24_08	Total/NA	Water	6020B	430806
310-288458-7	MW-24_24_08	Total/NA	Water	6020B	430806
310-288458-8	MW-25_24_08	Total/NA	Water	6020B	430806
310-288458-9	MW-107A_24_08	Total/NA	Water	6020B	430806
310-288458-10	MW-107B_24_08	Total/NA	Water	6020B	430806
310-288458-11	MW-109A_24_08	Total/NA	Water	6020B	430806
310-288458-12	MW-109B_24_08	Total/NA	Water	6020B	430806
310-288458-13	FD-2_24_08	Total/NA	Water	6020B	430806
MB 310-430806/1-A	Method Blank	Total/NA	Water	6020B	430806
LCS 310-430806/2-A	Lab Control Sample	Total/NA	Water	6020B	430806
310-288458-5 MS	MW-19_24_08	Total/NA	Water	6020B	430806
310-288458-5 MSD	MW-19_24_08	Total/NA	Water	6020B	430806
310-288459-E-2-B DU	Duplicate	Total/NA	Water	6020B	430806

Analysis Batch: 431692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-5	MW-19_24_08	Total/NA	Water	6020B	430806
310-288458-6	MW-20_24_08	Total/NA	Water	6020B	430806
310-288458-7	MW-24_24_08	Total/NA	Water	6020B	430806
310-288458-8	MW-25_24_08	Total/NA	Water	6020B	430806
310-288458-9	MW-107A_24_08	Total/NA	Water	6020B	430806
310-288458-10	MW-107B_24_08	Total/NA	Water	6020B	430806
310-288458-11	MW-109A_24_08	Total/NA	Water	6020B	430806
310-288458-12	MW-109B_24_08	Total/NA	Water	6020B	430806
310-288458-13	FD-2_24_08	Total/NA	Water	6020B	430806
MB 310-430806/1-A	Method Blank	Total/NA	Water	6020B	430806
LCS 310-430806/2-A	Lab Control Sample	Total/NA	Water	6020B	430806
310-288458-5 MS	MW-19_24_08	Total/NA	Water	6020B	430806

Metals (Continued)

Analysis Batch: 431692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-5 MSD	MW-19_24_08	Total/NA	Water	6020B	430806

General Chemistry

Analysis Batch: 430790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-7	MW-24_24_08	Total/NA	Water	I-3765-85	
310-288458-9	MW-107A_24_08	Total/NA	Water	I-3765-85	
310-288458-10	MW-107B_24_08	Total/NA	Water	I-3765-85	
MB 310-430790/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-430790/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-288260-B-3 DU	Duplicate	Total/NA	Water	I-3765-85	

Analysis Batch: 430791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288458-1	MW-13_24_08	Total/NA	Water	I-3765-85	
310-288458-2	MW-14_24_08	Total/NA	Water	I-3765-85	
310-288458-3	MW-15_24_08	Total/NA	Water	I-3765-85	
310-288458-4	MW-16_24_08	Total/NA	Water	I-3765-85	
310-288458-5	MW-19_24_08	Total/NA	Water	I-3765-85	
310-288458-6	MW-20_24_08	Total/NA	Water	I-3765-85	
310-288458-8	MW-25_24_08	Total/NA	Water	I-3765-85	
310-288458-11	MW-109A_24_08	Total/NA	Water	I-3765-85	
310-288458-12	MW-109B_24_08	Total/NA	Water	I-3765-85	
310-288458-13	FD-2_24_08	Total/NA	Water	I-3765-85	
MB 310-430791/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-430791/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-288458-1 DU	MW-13_24_08	Total/NA	Water	I-3765-85	

Client Sample ID: MW-13_24_08

Lab Sample ID: 310-288458-1

Date Collected: 08/15/24 10:45

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 00:02
Total/NA	Prep	8151A			782562	AC	EET CHI	08/21/24 09:22
Total/NA	Analysis	8151A		1	782944	H7CM	EET CHI	08/23/24 12:17
Total/NA	Prep	3005A			430802	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431230	NFT2	EET CF	08/22/24 16:17
Total/NA	Prep	3005A			430802	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431092	NFT2	EET CF	08/21/24 17:12
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Client Sample ID: MW-14_24_08

Lab Sample ID: 310-288458-2

Date Collected: 08/15/24 11:55

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 00:25
Total/NA	Prep	3005A			430802	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431230	NFT2	EET CF	08/22/24 16:20
Total/NA	Prep	3005A			430802	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431092	NFT2	EET CF	08/21/24 17:14
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Client Sample ID: MW-15_24_08

Lab Sample ID: 310-288458-3

Date Collected: 08/15/24 11:45

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 00:48
Total/NA	Prep	3510C			430787	L5FG	EET CF	08/19/24 13:19
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 21:22
Total/NA	Prep	3005A			430802	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431230	NFT2	EET CF	08/22/24 16:24
Total/NA	Prep	3005A			430802	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431092	NFT2	EET CF	08/21/24 17:16
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Client Sample ID: MW-16_24_08

Lab Sample ID: 310-288458-4

Date Collected: 08/15/24 12:20

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 01:10
Total/NA	Prep	8151A			782562	AC	EET CHI	08/21/24 09:22
Total/NA	Analysis	8151A		1	782944	H7CM	EET CHI	08/23/24 12:35
Total/NA	Prep	3005A			430802	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431230	NFT2	EET CF	08/22/24 16:42

Client Sample ID: MW-16_24_08

Lab Sample ID: 310-288458-4

Date Collected: 08/15/24 12:20

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			430802	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431092	NFT2	EET CF	08/21/24 17:18
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Client Sample ID: MW-19_24_08

Lab Sample ID: 310-288458-5

Date Collected: 08/15/24 14:15

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 01:33
Total/NA	Prep	3510C			430787	L5FG	EET CF	08/19/24 13:19
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 21:48
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 14:25
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431692	NFT2	EET CF	08/28/24 14:33
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Client Sample ID: MW-20_24_08

Lab Sample ID: 310-288458-6

Date Collected: 08/15/24 13:50

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 01:55
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 14:57
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431692	NFT2	EET CF	08/28/24 14:48
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Client Sample ID: MW-24_24_08

Lab Sample ID: 310-288458-7

Date Collected: 08/15/24 13:55

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 02:18
Total/NA	Prep	3510C			430787	L5FG	EET CF	08/19/24 13:19
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 22:13
Total/NA	Prep	8151A			782562	AC	EET CHI	08/21/24 09:22
Total/NA	Analysis	8151A		1	782944	H7CM	EET CHI	08/23/24 12:53
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 15:01
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431692	NFT2	EET CF	08/28/24 14:51
Total/NA	Analysis	I-3765-85		1	430790	HE7K	EET CF	08/19/24 13:42

Client Sample ID: MW-25_24_08

Lab Sample ID: 310-288458-8

Date Collected: 08/15/24 14:55

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 02:40
Total/NA	Prep	3510C			430787	L5FG	EET CF	08/19/24 13:19
Total/NA	Analysis	8270E		1	431424	L0FS	EET CF	08/26/24 22:38
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 15:05
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431692	NFT2	EET CF	08/28/24 14:53
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Client Sample ID: MW-107A_24_08

Lab Sample ID: 310-288458-9

Date Collected: 08/15/24 10:50

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 03:03
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 15:08
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431692	NFT2	EET CF	08/28/24 14:55
Total/NA	Analysis	I-3765-85		1	430790	HE7K	EET CF	08/19/24 13:42

Client Sample ID: MW-107B_24_08

Lab Sample ID: 310-288458-10

Date Collected: 08/15/24 11:45

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 03:25
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 15:12
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431692	NFT2	EET CF	08/28/24 14:57
Total/NA	Analysis	I-3765-85		1	430790	HE7K	EET CF	08/19/24 13:42

Client Sample ID: MW-109A_24_08

Lab Sample ID: 310-288458-11

Date Collected: 08/15/24 14:40

Matrix: Water

Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 03:48
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 15:15
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431692	NFT2	EET CF	08/28/24 14:59
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Lab Chronicle

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Client Sample ID: MW-109B_24_08

Lab Sample ID: 310-288458-12

Date Collected: 08/15/24 15:25
Matrix: Water
Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 04:11
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 15:19
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431692	NFT2	EET CF	08/28/24 15:01
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Client Sample ID: FD-2_24_08

Lab Sample ID: 310-288458-13

Date Collected: 08/15/24 00:00
Matrix: Water
Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/20/24 04:33
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 15:23
Total/NA	Prep	3005A			430806	QTZ5	EET CF	08/20/24 09:30
Total/NA	Analysis	6020B		1	431692	NFT2	EET CF	08/28/24 15:04
Total/NA	Analysis	I-3765-85		1	430791	HE7K	EET CF	08/19/24 14:07

Client Sample ID: TB-2_24_08

Lab Sample ID: 310-288458-14

Date Collected: 08/15/24 00:00
Matrix: Water
Date Received: 08/16/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	430749	WSE8	EET CF	08/19/24 23:17

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288458-1
Project/Site: CRLCSWA_1
SDG: 24C034.00

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

Method Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288458-1
SDG: 24C034.00

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8151A	Herbicides (GC)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

eurofins | Environment Testing America

310-288458 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth Infrastructure

City/State: CITY Cedar Rapids | STATE IA | Project: CRLCSWA Site 1

Receipt Information

Date/Time Received: DATE 8/16/24 | TIME 1330 | Received By: PH

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes ☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☑ Yes ☐ No	*If yes:* Cooler # 1 of 3
Cooler Custody Seals Present? No	☑ Yes ☐ No	*If yes:* Cooler custody seals intact? ☑ Yes ☐
Sample Custody Seals Present? No	☐ Yes ☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☐
Trip Blank Present?	☐ Yes ☐ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.1 | Corrected Temp (°C): 3.1

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used.		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth Infrastructure

City/State: CITY Cedar Rapids STATE IA Project: CRLCSWA Site 1

Receipt Information

Date/Time Received: DATE 8/16/24 TIME 1330 Received By: PH

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 2 of 3

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.4 | Corrected Temp (°C): 3.4

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth Infrastructure

City/State: CITY Cedar Rapids STATE IA Project: CRLCSWA Site 1

Receipt Information

Date/Time Received: DATE 8/16/24 TIME 1330 Received By: PH

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other._____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 3 of 3

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.2 Corrected Temp (°C): 3.2

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used.		
Uncorrected Temp (°C)		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

310-288458 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth Infrastructure

City/State: CITY Cedar Rapids | STATE IA | Project: CRLCSWA Site 1

Receipt Information

Date/Time Received: DATE 8/16/24 | TIME 1330 | Received By: PH

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 1 of 3

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID. P | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.1 | Corrected Temp (°C): 3.1

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth Infrastructure

City/State: CITY Cedar Rapids | STATE IA | Project: CRLCSWA Site 1

Receipt Information

Date/Time Received: DATE 8/16/24 | TIME 1330 | Received By: PH

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 2 of 3

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.4 | Corrected Temp (°C): 3.4

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth Infrastructure

City/State: CITY Cedar Rapids STATE IA Project: CRLCSWA Site 1

Receipt Information

Date/Time Received: DATE 8/16/24 TIME 1330 Received By: PH

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 3 of 3

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.2 | Corrected Temp (°C): 3.2

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used		
Uncorrected Temp (°C)		
Corrected Temp (°C)		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 1 of 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members: Tyler Merritt & Randy Gavin
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←	
1	AW-1_24_08	AW-1	WG	G											X	X			X															
2	AW-2_24_08	AW-2	WG	G											X	X			X															
3	AW-3_24_08	AW-3	WG	G											X	X			X									X				X		
4	AW-4_24_08	AW-4	WG	G											X	X			X															
5	AW-5_24_08	AW-5	WG	G											X	X							X											
6	AW-6_24_08	AW-6	WG	G											X	X			X				X									X		
7	CRL-9_24_08	CRL-9	WG	G											X	X	X		X													X		
8	MW-11_24_08	MW-11	WG	G											X	X			X													X		
9	MW-12_24_08	MW-12	WG	G											X	X	X											X				X		
10	MW-13_24_08	MW-13	WG	G	8/15/2024	10:45	7	3		1	3				X	X	X						X											
11	MW-14_24_08	MW-14	WG	G	8/15/2024	11:55	5	1		1	3				X	X																		
12	MW-15_24_08	MW-15	WG	G	8/14/2024	11.45	7	3		1	3				X	X			X															

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Courier			3		O.A. Technical Services	8/16	11:30			

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Merritt

SIGNATURE of SAMPLER: Tyler Merritt

DATE Signed: 8/16/24

8/28/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 2 of 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members: Tyler Merritt & Randy Bowin
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←	
13	MW-16_24_08	MW-16	WG	G	8/14/2024	12:20	7	3		1	3				X	X	X						X									X		
14	MW-17_24_08	MW-17	WG	G											X	X			X				X											
15	MW-18_24_08	MW-18	WG	G											X	X			X												X			
16	MW-19_24_08	MW-19	WG	G	8/15/2024	14:15	7	3		1	3				X	X			X															
17	MW-20_24_08	MW-20	WG	G	8/15/2024	13:50	5	1		1	3				X	X																X		
18	MW-21_24_08	MW-21	WG	G											X	X							X		X				X			X		
19	MW-22_24_08	MW-22	WG	G											X	X		X	X				X									X		
20	MW-23_24_08	MW-23	WG	G											X	X																X		
21	MW-24_24_08	MW-24	WG	G	8/15/2024	13:55	9	5		1	3				X	X	X		X					X								X		
22	MW-25_24_08	MW-25	WG	G	8/15/2024	14:55	7	3		1	3				X	X			X													X		
23	MW-26_24_08	MW-26	WG	G											X	X			X							X				X		X		
24	MW-28_24_08	MW-28	WG	G											X	X					X													

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Courier			3		Tyler Merritt O.A. Technical Services	8/16	11:30			

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Additional Comments:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Merritt

SIGNATURE of SAMPLER: Tyler Merritt

DATE Signed: 8/16/24

8/28/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 3 of 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O.		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members: Tyler Merritt & Randy Gavin
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location. Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
25	MW-30_24_08	MW-30	WG	G											X	X			X												X		
26	MW-31_24_08	MW-31	WG	G											X	X																	
27	MW-32_24_08	MW-32	WG	G											X	X			X				X									X	
28	MW-33_24_08	MW-33	WG	G											X	X			X													X	
29	MW-34_24_08	MW-34	WG	G											X	X	X		X													X	
30	MW-35_24_08	MW-35	WG	G											X	X	X															X	
31	MW-36_24_08	MW-36	WG	G											X	X			X													X	
32	MW-37_24_08	MW-37	WG	G											X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X	
33	MW-38_24_08	MW-38	WG	G											X	X	X	X	X				X								X	X	
34	VP-3_24_08	VP-3	WG	G											X	X			X	X													
35	VP-4_24_08	VP-4	WG	G											X	X			X												X		
36	MW-101A_24_08	MW-101A	WG	G											X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X	

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Couriers			3		Tyler Merritt O.A. Technical Services	8/16	16:30			

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes

Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Merritt

SIGNATURE of SAMPLER: Tyler Merritt

DATE Signed: 8/16/24

8/28/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 4 of 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members: Tyler Merritt & Randy Gavin
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Total Arsenic	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←	
37	MW-101B_24_08	MW-101B	WG	G											X	X	X	X	X				X								X	X			
38	MW-102B_24_08	MW-102B	WG	G											X	X																			
39	MW-104B_24_08	MW-104B	WG	G												X																	X		
40	MW-105A_24_08	MW-105A	WG	G											X	X																			
41	MW-105B_24_08	MW-105B	WG	G											X	X																			
42	MW-106A_24_08	MW-106A	WG	G											X	X																			
43	MW-107A_24_08	MW-107A	WG	G	8/15/2024	10:50	5	1		1	3				X	X																			
44	MW-107B_24_08	MW-107B	WG	G	8/15/2024	11:45	5	1		1	3				X	X																			
45	MW-108B_24_08	MW-108B	WG	G											X	X																			Do Not Analyze Cobalt
46	MW-109A_24_08	MW-109A	WG	G	8/15/2024	14:40	5	1		1	3				X	X																			
47	MW-109B_24_08	MW-109B	WG	G	8/15/2024	15:25	5	1		1	3				X	X																			
48	FD-1_24_08		WG	G											X	X																			

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Courier			3		[signature] D.A. Technical Services	8/16	11:30			

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Merritt

SIGNATURE of SAMPLER [signature] DATE Signed: 8/16/24

8/28/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 5 of 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members: Tyler Merritt & Randy Gavin
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	App. I VOCs Only	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←	
49	FD-2_24_08		WG	G	8/15/2024	—	5	1		1	3				X	X																			
50	FD-3_24_08		WG	G											X	X																			
51	FD-4_24_08		WG	G											X	X																			
52	FD-5_24_08		WG	G											X	X																			
53	FB-1_24_08	FB-1	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
54	FB-2_24_08	FB-2	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
55	FB-3_24_08	FB-3	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
56	TB-1_24_08	Trip Blank	WQ	G													X																X		
57	TB-2_24_08	Trip Blank	WQ	G	—	—	3				3						X																X		
58	TB-3_24_08	Trip Blank	WQ	G													X																X		
59	TB-4_24_08	Trip Blank	WQ	G													X																X		
60	TB-5_24_08	Trip Blank	WQ	G													X																X		

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
Courier			3

ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Tyler Merritt QA, Technical Services	8/16	11:30			

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Merritt

SIGNATURE of SAMPLER: Tyler Merritt

DATE Signed: 8/16/24

8/28/2024

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax 319-277-2425

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Calhoun, Conner M	Carrier Tracking No(s):	COC No: 310-75519 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Conner Calhoun@et eurofinsus com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State Program - Iowa		Job #: 310-288458-1
Address: 2417 Bond Street, ,	Due Date Requested: 8/29/2024			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email	WO #:			
Project Name: CRLCSWA_1	Project #: 31009776			
Site:	SSOW#:			

310-288458 COC

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP (MOD) TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code.						
MW-13_24_08 (310-288458-1)	8/15/24	10 45 Central	G	Water			X	2	
MW-16_24_08 (310-288458-4)	8/15/24	12 20 Central	G	Water			X	2	
MW-24_24_08 (310-288458-7)	8/15/24	13 55 Central	G	Water			X	2	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing North Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central LLC

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment.

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/19/24 1553			8/20/24 0935	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks. 1.1-7.0

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-288458-1
SDG Number: 24C034.00

Login Number: 288458
List Number: 1
Creator: Hirsch, Preston

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-288458-1
SDG Number: 24C034.00

Login Number: 288458
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 08/20/24 03:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gina Wilming
Foth Infrastructure & Environment, LLC
411 6th Avenue SE
Suite 400
Cedar Rapids, Iowa 52401

Generated 9/5/2024 12:29:34 AM

JOB DESCRIPTION

CRLCSWA_1

JOB NUMBER

310-288673-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
9/5/2024 12:29:34 AM

Authorized for release by
Conner Calhoun, Project Management Assistant I
Conner.Calhoun@et.eurofinsus.com
(319)277-2401

Table of Contents

Job ID: 310-288673-1 — Eurofins Cedar Falls

Job Narrative
310-288673-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/21/2024 1:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.6°C, 0.9°C, 1.1°C, 1.8°C and 1.9°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-288673-1	AW-5_24_08	Water	08/19/24 14:25	08/21/24 13:10
310-288673-2	AW-6_24_08	Water	08/19/24 15:35	08/21/24 13:10
310-288673-3	MW-11_24_08	Water	08/20/24 14:35	08/21/24 13:10
310-288673-4	MW-12_24_08	Water	08/20/24 13:55	08/21/24 13:10
310-288673-5	MW-26_24_08	Water	08/19/24 12:30	08/21/24 13:10
310-288673-6	MW-28_24_08	Water	08/19/24 14:20	08/21/24 13:10
310-288673-7	MW-30_24_08	Water	08/19/24 15:15	08/21/24 13:10
310-288673-8	MW-31_24_08	Water	08/20/24 10:40	08/21/24 13:10
310-288673-9	MW-32_24_08	Water	08/20/24 15:35	08/21/24 13:10
310-288673-10	MW-34_24_08	Water	08/20/24 12:00	08/21/24 13:10
310-288673-11	MW-102B_24_08	Water	08/20/24 15:40	08/21/24 13:10
310-288673-12	MW-105A_24_08	Water	08/19/24 11:55	08/21/24 13:10
310-288673-13	MW-105B_24_08	Water	08/19/24 12:15	08/21/24 13:10
310-288673-14	MW-106A_24_08	Water	08/19/24 11:15	08/21/24 13:10
310-288673-15	FD-3_24_08	Water	08/19/24 00:00	08/21/24 13:10
310-288673-16	FD-4_24_08	Water	08/20/24 00:00	08/21/24 13:10
310-288673-17	FB-2_24_08	Water	08/19/24 11:10	08/21/24 13:10
310-288673-18	TB-3_24_08	Water	08/20/24 00:00	08/21/24 13:10

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: AW-5_24_08 — Lab Sample ID: 310-288673-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00160	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.193		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00294		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00503		0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0107		0.00500	0.00210	mg/L	1		6020B	Total/NA
Selenium	0.0172		0.00500	0.00140	mg/L	1		6020B	Total/NA
Silver	0.000991	J	0.00100	0.000500	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: AW-6_24_08 — Lab Sample ID: 310-288673-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.80		1.00	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.000805	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.174		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0104		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00234	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0286		0.00500	0.00210	mg/L	1		6020B	Total/NA
Selenium	0.00157	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Silver	0.000766	J	0.00100	0.000500	mg/L	1		6020B	Total/NA
Thallium	0.000782	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.75		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-11_24_08 — Lab Sample ID: 310-288673-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.78		1.00	0.220	ug/L	1		8260D	Total/NA
Barium	0.0571		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000970		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00441	J	0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: MW-12_24_08 — Lab Sample ID: 310-288673-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.29		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	2.71		1.00	0.370	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	0.318	J	1.00	0.270	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	8.01		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	0.854		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	3.98		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.21		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.308	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	0.589	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.114		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.514		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00445		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0822		0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.00255		0.00100	0.000570	mg/L	1		6020B	Total/NA
Total Suspended Solids	23.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-26_24_08 — Lab Sample ID: 310-288673-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.544	J	1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.000928	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.159		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	11.8		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-28_24_08 — Lab Sample ID: 310-288673-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.308	J	1.00	0.220	ug/L	1		8260D	Total/NA
Barium	0.206		0.00200	0.000660	mg/L	1		6020B	Total/NA
Zinc	0.0121	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	14.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-30_24_08 — Lab Sample ID: 310-288673-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	11.1		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	0.353	J	1.00	0.270	ug/L	1		8260D	Total/NA
Benzene	1.10		0.500	0.220	ug/L	1		8260D	Total/NA
Chloroethane	8.99		4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	7.11		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.881	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	1.15		1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0128		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.135		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00179		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0257		0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.000693	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Zinc	0.158		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	16.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-31_24_08 — Lab Sample ID: 310-288673-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0961		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.13		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-32_24_08 — Lab Sample ID: 310-288673-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.450	J	1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	2.47		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	0.691		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	12.0		1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.247		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.886		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00845		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00222	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000510		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0766		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00153	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	53.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-34_24_08 — Lab Sample ID: 310-288673-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.17		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	1.12		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	3.69		1.00	0.230	ug/L	1		8260D	Total/NA
2-Butanone (MEK)	2.20	J	10.0	2.10	ug/L	1		8260D	Total/NA
Acetone	4.35	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	1.11		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	2.94		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.640	J	1.00	0.210	ug/L	1		8260D	Total/NA
Toluene	68.9		1.00	0.430	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.893	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	0.759	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0359		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.336		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00132	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.00340		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00280	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000350	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0471		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00243	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	47.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-102B_24_08 — Lab Sample ID: 310-288673-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.138		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00106		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00258	J	0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: MW-105A_24_08 — Lab Sample ID: 310-288673-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00143	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0780		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000140	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00424		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00731		0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0117		0.00500	0.00210	mg/L	1		6020B	Total/NA
Selenium	0.00315	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.25		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-105B_24_08 — Lab Sample ID: 310-288673-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.29		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	0.306	J	1.00	0.270	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.815	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.00602		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.110		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00945		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0131		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.75	J	1.88	1.39	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-106A_24_08 — Lab Sample ID: 310-288673-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0128		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.230		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00131	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.0300		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0555		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00112	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	17.5		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: FD-3_24_08 — Lab Sample ID: 310-288673-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.338	J	1.00	0.220	ug/L	1		8260D	Total/NA
Acetone	3.39	J	10.0	3.10	ug/L	1		8260D	Total/NA
Barium	0.204		0.00200	0.000660	mg/L	1		6020B	Total/NA
Zinc	0.0110	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	7.50		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: FD-4_24_08 — Lab Sample ID: 310-288673-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.35		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	1.22		1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	3.98		1.00	0.230	ug/L	1		8260D	Total/NA
Acetone	5.11	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	1.15		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	3.13		1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	6.59		4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.775	J	1.00	0.210	ug/L	1		8260D	Total/NA
Toluene	66.0		1.00	0.430	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.959	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	0.914	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0367		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.339		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00133	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.00346		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00315	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000363	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0487		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00241	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	42.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: FB-2_24_08 — Lab Sample ID: 310-288673-17

No Detections.

Client Sample ID: TB-3_24_08 — Lab Sample ID: 310-288673-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.89	J	10.0	3.10	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: AW-5_24_08
Date Collected: 08/19/24 14:25
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 14:10	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 14:10	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 14:10	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 14:10	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 14:10	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 14:10	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 14:10	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 14:10	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 14:10	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 14:10	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 14:10	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 14:10	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 14:10	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 14:10	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 14:10	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 14:10	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 14:10	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 14:10	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 14:10	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 14:10	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 14:10	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 14:10	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 14:10	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 14:10	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 14:10	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 14:10	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 14:10	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 14:10	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 14:10	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 14:10	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 14:10	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 14:10	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 14:10	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 14:10	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 14:10	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 14:10	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 14:10	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 14:10	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 14:10	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 14:10	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 14:10	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 14:10	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 14:10	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 14:10	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 14:10	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 14:10	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*73 - 130*		*08/22/24 14:10*	*1*

Client Sample ID: AW-5_24_08
Lab Sample ID: 310-288673-1
Date Collected: 08/19/24 14:25
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/22/24 14:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/22/24 14:10*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0882		1.06	0.0882	ug/L		08/26/24 10:27	08/28/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*86*		*25 - 130*	*08/26/24 10:27*	*08/28/24 19:11*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 13:15	1
Arsenic	**0.00160**	**J**	0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 16:45	1
Barium	**0.193**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 16:45	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 16:45	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 16:45	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 16:45	1
Cobalt	**0.00294**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 16:45	1
Copper	**0.00503**		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 16:45	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 16:45	1
Nickel	**0.0107**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 16:45	1
Selenium	**0.0172**		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 16:45	1
Silver	**0.000991**	**J**	0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 16:45	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 16:45	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 16:45	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 16:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.88**		1.88	1.39	mg/L			08/22/24 15:56	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: AW-6_24_08
Date Collected: 08/19/24 15:35
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 14:32	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 14:32	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 14:32	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 14:32	1
1,1-Dichloroethane	**1.80**		1.00	0.220	ug/L			08/22/24 14:32	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 14:32	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 14:32	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 14:32	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 14:32	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 14:32	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 14:32	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 14:32	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 14:32	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 14:32	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 14:32	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 14:32	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 14:32	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 14:32	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 14:32	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 14:32	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 14:32	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 14:32	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 14:32	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 14:32	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 14:32	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 14:32	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 14:32	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 14:32	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 14:32	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 14:32	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 14:32	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 14:32	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 14:32	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 14:32	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 14:32	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 14:32	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 14:32	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 14:32	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 14:32	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 14:32	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 14:32	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 14:32	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 14:32	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 14:32	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 14:32	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 14:32	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*73 - 130*		*08/22/24 14:32*	*1*

Client Sample ID: AW-6_24_08
Lab Sample ID: 310-288673-2
Date Collected: 08/19/24 15:35
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/22/24 14:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/22/24 14:32*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/23/24 09:21	08/27/24 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*70*		*45 - 129*	*08/23/24 09:21*	*08/27/24 17:04*	*1*
2-Fluorobiphenyl (Surr)	*71*		*39 - 118*	*08/23/24 09:21*	*08/27/24 17:04*	*1*
Terphenyl-d14 (Surr)	*67*		*12 - 144*	*08/23/24 09:21*	*08/27/24 17:04*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0871		1.04	0.0871	ug/L		08/26/24 10:27	08/28/24 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*107*		*25 - 130*	*08/26/24 10:27*	*08/28/24 19:29*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 13:21	1
Arsenic	**0.000805**	**J**	0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:03	1
Barium	**0.174**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:03	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:03	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:03	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:03	1
Cobalt	**0.0104**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:03	1
Copper	**0.00234**	**J**	0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:03	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:03	1
Nickel	**0.0286**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:03	1
Selenium	**0.00157**	**J**	0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:03	1
Silver	**0.000766**	**J**	0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:03	1
Thallium	**0.000782**	**J**	0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:03	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:03	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:03	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/27/24 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.75**		1.88	1.39	mg/L			08/22/24 15:56	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-11_24_08
Date Collected: 08/20/24 14:35
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 14:55	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 14:55	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 14:55	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 14:55	1
1,1-Dichloroethane	**1.78**		1.00	0.220	ug/L			08/22/24 14:55	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 14:55	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 14:55	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 14:55	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 14:55	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 14:55	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 14:55	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 14:55	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 14:55	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 14:55	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 14:55	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 14:55	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 14:55	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 14:55	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 14:55	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 14:55	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 14:55	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 14:55	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 14:55	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 14:55	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 14:55	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 14:55	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 14:55	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 14:55	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 14:55	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 14:55	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 14:55	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 14:55	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 14:55	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 14:55	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 14:55	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 14:55	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 14:55	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 14:55	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 14:55	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 14:55	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 14:55	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 14:55	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 14:55	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 14:55	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 14:55	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 14:55	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*08/22/24 14:55*	*1*

Client Sample ID: MW-11_24_08
Lab Sample ID: 310-288673-3
Date Collected: 08/20/24 14:35
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/22/24 14:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/22/24 14:55*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.73		10.4	5.73	ug/L		08/23/24 09:21	08/27/24 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*77*		*45 - 129*	*08/23/24 09:21*	*08/27/24 17:29*	*1*
2-Fluorobiphenyl (Surr)	*77*		*39 - 118*	*08/23/24 09:21*	*08/27/24 17:29*	*1*
Terphenyl-d14 (Surr)	*61*		*12 - 144*	*08/23/24 09:21*	*08/27/24 17:29*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 13:23	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:06	1
Barium	**0.0571**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:06	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:06	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:06	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:06	1
Cobalt	**0.000970**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:06	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:06	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:06	1
Nickel	**0.00441**	**J**	0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:06	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:06	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:06	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:06	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:06	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:06	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/27/24 17:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/22/24 15:56	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-12_24_08
Date Collected: 08/20/24 13:55
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 15:18	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 15:18	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 15:18	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 15:18	1
1,1-Dichloroethane	**4.29**		1.00	0.220	ug/L			08/22/24 15:18	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 15:18	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 15:18	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 15:18	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 15:18	1
1,2-Dichlorobenzene	**2.71**		1.00	0.370	ug/L			08/22/24 15:18	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 15:18	1
1,2-Dichloropropane	**0.318**	**J**	1.00	0.270	ug/L			08/22/24 15:18	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/22/24 15:18	1
1,4-Dichlorobenzene	**8.01**		1.00	0.230	ug/L			08/22/24 15:18	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 15:18	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 15:18	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 15:18	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 15:18	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 15:18	1
Benzene	**0.854**		0.500	0.220	ug/L			08/22/24 15:18	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 15:18	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 15:18	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 15:18	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 15:18	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 15:18	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 15:18	1
Chlorobenzene	**3.98**		1.00	0.400	ug/L			08/22/24 15:18	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 15:18	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 15:18	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 15:18	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 15:18	1
cis-1,2-Dichloroethene	**4.21**		1.00	0.210	ug/L			08/22/24 15:18	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 15:18	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 15:18	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 15:18	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 15:18	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 15:18	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 15:18	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 15:18	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 15:18	1
trans-1,2-Dichloroethene	**0.308**	**J**	1.00	0.270	ug/L			08/22/24 15:18	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 15:18	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 15:18	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 15:18	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 15:18	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 15:18	1
Vinyl chloride	**0.589**	**J**	1.00	0.180	ug/L			08/22/24 15:18	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 15:18	1

Client Sample ID: MW-12_24_08

Lab Sample ID: 310-288673-4

Date Collected: 08/20/24 13:55

Matrix: Water

Date Received: 08/21/24 13:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*08/22/24 15:18*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/22/24 15:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/22/24 15:18*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0370		0.0640	0.0370	ug/L		08/26/24 14:09	08/30/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*10 - 136*	*08/26/24 14:09*	*08/30/24 12:34*	*1*
Tetrachloro-m-xylene	*51*		*10 - 130*	*08/26/24 14:09*	*08/30/24 12:34*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:28	1
Arsenic	**0.114**		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:24	1
Barium	**0.514**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:24	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:24	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:24	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:24	1
Cobalt	**0.00445**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:24	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:24	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:24	1
Nickel	**0.0822**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:24	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:24	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:24	1
Thallium	**0.00255**		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:24	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:24	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:24	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/27/24 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**23.0**		7.50	5.55	mg/L			08/22/24 15:56	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-26_24_08
Date Collected: 08/19/24 12:30
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 15:40	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 15:40	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 15:40	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 15:40	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 15:40	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 15:40	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 15:40	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 15:40	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 15:40	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 15:40	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 15:40	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 15:40	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 15:40	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 15:40	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 15:40	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 15:40	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 15:40	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 15:40	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 15:40	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 15:40	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 15:40	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 15:40	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 15:40	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 15:40	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 15:40	1
Chlorobenzene	**0.544**	**J**	1.00	0.400	ug/L			08/22/24 15:40	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 15:40	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 15:40	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 15:40	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 15:40	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 15:40	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 15:40	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 15:40	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 15:40	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 15:40	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 15:40	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 15:40	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 15:40	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 15:40	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 15:40	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 15:40	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 15:40	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 15:40	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 15:40	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 15:40	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 15:40	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*73 - 130*		*08/22/24 15:40*	*1*

Client Sample ID: MW-26_24_08
Lab Sample ID: 310-288673-5
Date Collected: 08/19/24 12:30
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/22/24 15:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/22/24 15:40*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.29		9.62	5.29	ug/L		08/23/24 09:21	08/27/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*82*		*45 - 129*	*08/23/24 09:21*	*08/27/24 17:54*	*1*
2-Fluorobiphenyl (Surr)	*84*		*39 - 118*	*08/23/24 09:21*	*08/27/24 17:54*	*1*
Terphenyl-d14 (Surr)	*65*		*12 - 144*	*08/23/24 09:21*	*08/27/24 17:54*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0290		0.0640	0.0290	ug/L		08/26/24 14:09	08/30/24 12:50	1
Heptachlor	<0.0330		0.0640	0.0330	ug/L		08/26/24 14:09	08/30/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*10 - 136*	*08/26/24 14:09*	*08/30/24 12:50*	*1*
Tetrachloro-m-xylene	*88*		*10 - 130*	*08/26/24 14:09*	*08/30/24 12:50*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:30	1
Arsenic	**0.000928**	**J**	0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:28	1
Barium	**0.159**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:28	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:28	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:28	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:28	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:28	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:28	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:28	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:28	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:28	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:28	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:28	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:28	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:28	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/27/24 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**11.8**		3.75	2.78	mg/L			08/22/24 15:56	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-28_24_08
Date Collected: 08/19/24 14:20
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 16:03	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 16:03	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 16:03	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 16:03	1
1,1-Dichloroethane	**0.308**	**J**	1.00	0.220	ug/L			08/22/24 16:03	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 16:03	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 16:03	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 16:03	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 16:03	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 16:03	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 16:03	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 16:03	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 16:03	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 16:03	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 16:03	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 16:03	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 16:03	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 16:03	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 16:03	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 16:03	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 16:03	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 16:03	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 16:03	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 16:03	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 16:03	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 16:03	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 16:03	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 16:03	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 16:03	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 16:03	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 16:03	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 16:03	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 16:03	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 16:03	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 16:03	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 16:03	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 16:03	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 16:03	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 16:03	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 16:03	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 16:03	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 16:03	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 16:03	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 16:03	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 16:03	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 16:03	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*73 - 130*		*08/22/24 16:03*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-28_24_08
Lab Sample ID: 310-288673-6

Date Collected: 08/19/24 14:20
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/22/24 16:03*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/22/24 16:03*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	<0.700		10.0	0.700	ug/L		08/23/24 09:21	08/27/24 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*25 - 110*	*08/23/24 09:21*	*08/27/24 18:19*	*1*
Phenol-d5 (Surr)	*58*		*21 - 110*	*08/23/24 09:21*	*08/27/24 18:19*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*27 - 136*	*08/23/24 09:21*	*08/27/24 18:19*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:32	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:32	1
Barium	**0.206**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:32	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:32	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:32	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:32	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:32	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:32	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:32	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:32	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:32	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:32	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:32	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:32	1
Zinc	**0.0121**	**J**	0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**14.0**		7.50	5.55	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-30_24_08
Date Collected: 08/19/24 15:15
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 16:26	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 16:26	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 16:26	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 16:26	1
1,1-Dichloroethane	**11.1**		1.00	0.220	ug/L			08/22/24 16:26	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 16:26	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 16:26	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 16:26	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 16:26	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 16:26	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 16:26	1
1,2-Dichloropropane	**0.353**	**J**	1.00	0.270	ug/L			08/22/24 16:26	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 16:26	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 16:26	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 16:26	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 16:26	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 16:26	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 16:26	1
Benzene	**1.10**		0.500	0.220	ug/L			08/22/24 16:26	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 16:26	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 16:26	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 16:26	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 16:26	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 16:26	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 16:26	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 16:26	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 16:26	1
Chloroethane	**8.99**		4.00	0.790	ug/L			08/22/24 16:26	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 16:26	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 16:26	1
cis-1,2-Dichloroethene	**7.11**		1.00	0.210	ug/L			08/22/24 16:26	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 16:26	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 16:26	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 16:26	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 16:26	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 16:26	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 16:26	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 16:26	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 16:26	1
trans-1,2-Dichloroethene	**0.881**	**J**	1.00	0.270	ug/L			08/22/24 16:26	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 16:26	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 16:26	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 16:26	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 16:26	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 16:26	1
Vinyl chloride	**1.15**		1.00	0.180	ug/L			08/22/24 16:26	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*08/22/24 16:26*	*1*

Client Sample ID: MW-30_24_08
Lab Sample ID: 310-288673-7
Date Collected: 08/19/24 15:15
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/22/24 16:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/22/24 16:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.29		9.62	5.29	ug/L		08/23/24 09:21	08/27/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*94*		*45 - 129*	*08/23/24 09:21*	*08/27/24 18:45*	*1*
2-Fluorobiphenyl (Surr)	*102*		*39 - 118*	*08/23/24 09:21*	*08/27/24 18:45*	*1*
Terphenyl-d14 (Surr)	*79*		*12 - 144*	*08/23/24 09:21*	*08/27/24 18:45*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:34	1
Arsenic	**0.0128**		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:35	1
Barium	**0.135**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:35	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:35	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:35	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:35	1
Cobalt	**0.00179**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:35	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:35	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:35	1
Nickel	**0.0257**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:35	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:35	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:35	1
Thallium	**0.000693**	**J**	0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:35	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:35	1
Zinc	**0.158**		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:35	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/27/24 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**16.0**		7.50	5.55	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-31_24_08
Date Collected: 08/20/24 10:40
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 16:49	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 16:49	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 16:49	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 16:49	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 16:49	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 16:49	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 16:49	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 16:49	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 16:49	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 16:49	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 16:49	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 16:49	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 16:49	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 16:49	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 16:49	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 16:49	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 16:49	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 16:49	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 16:49	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 16:49	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 16:49	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 16:49	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 16:49	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 16:49	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 16:49	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 16:49	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 16:49	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 16:49	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 16:49	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 16:49	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 16:49	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 16:49	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 16:49	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 16:49	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 16:49	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 16:49	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 16:49	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 16:49	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 16:49	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 16:49	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 16:49	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 16:49	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 16:49	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 16:49	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 16:49	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 16:49	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*08/22/24 16:49*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-31_24_08
Lab Sample ID: 310-288673-8

Date Collected: 08/20/24 10:40
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/22/24 16:49*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/22/24 16:49*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:37	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:39	1
Barium	**0.0961**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:39	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:39	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:39	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:39	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:39	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:39	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:39	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:39	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:39	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:39	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:39	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:39	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.13**		1.88	1.39	mg/L			08/22/24 15:56	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-32_24_08
Date Collected: 08/20/24 15:35
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 17:11	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 17:11	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 17:11	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 17:11	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 17:11	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 17:11	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 17:11	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 17:11	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 17:11	1
1,2-Dichlorobenzene	**0.450**	**J**	1.00	0.370	ug/L			08/22/24 17:11	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 17:11	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 17:11	1
1,4-Dichlorobenzene	**2.47**		1.00	0.230	ug/L			08/22/24 17:11	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 17:11	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 17:11	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 17:11	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 17:11	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 17:11	1
Benzene	**0.691**		0.500	0.220	ug/L			08/22/24 17:11	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 17:11	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 17:11	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 17:11	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 17:11	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 17:11	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 17:11	1
Chlorobenzene	**12.0**		1.00	0.400	ug/L			08/22/24 17:11	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 17:11	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 17:11	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 17:11	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 17:11	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 17:11	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 17:11	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 17:11	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 17:11	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 17:11	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 17:11	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 17:11	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 17:11	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 17:11	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 17:11	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 17:11	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 17:11	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 17:11	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 17:11	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 17:11	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 17:11	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*73 - 130*		*08/22/24 17:11*	*1*

Client Sample ID: MW-32_24_08
Lab Sample ID: 310-288673-9
Date Collected: 08/20/24 15:35
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/22/24 17:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/22/24 17:11*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/23/24 09:21	08/27/24 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*73*		*45 - 129*	*08/23/24 09:21*	*08/27/24 19:10*	*1*
2-Fluorobiphenyl (Surr)	*73*		*39 - 118*	*08/23/24 09:21*	*08/27/24 19:10*	*1*
Terphenyl-d14 (Surr)	*73*		*12 - 144*	*08/23/24 09:21*	*08/27/24 19:10*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0828		0.993	0.0828	ug/L		08/26/24 10:27	08/28/24 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*89*		*25 - 130*	*08/26/24 10:27*	*08/28/24 19:48*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:39	1
Arsenic	**0.247**		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:43	1
Barium	**0.886**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:43	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:43	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:43	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:43	1
Cobalt	**0.00845**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:43	1
Copper	**0.00222**	**J**	0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:43	1
Lead	**0.000510**		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:43	1
Nickel	**0.0766**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:43	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:43	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:43	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:43	1
Vanadium	**0.00153**	**J**	0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:43	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:43	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/27/24 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**53.0**		15.0	11.1	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-34_24_08
Date Collected: 08/20/24 12:00
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 17:34	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 17:34	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 17:34	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 17:34	1
1,1-Dichloroethane	**2.17**		1.00	0.220	ug/L			08/22/24 17:34	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 17:34	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 17:34	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 17:34	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 17:34	1
1,2-Dichlorobenzene	**1.12**		1.00	0.370	ug/L			08/22/24 17:34	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 17:34	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 17:34	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/22/24 17:34	1
1,4-Dichlorobenzene	**3.69**		1.00	0.230	ug/L			08/22/24 17:34	1
2-Butanone (MEK)	**2.20**	**J**	10.0	2.10	ug/L			08/22/24 17:34	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 17:34	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 17:34	1
Acetone	**4.35**	**J**	10.0	3.10	ug/L			08/22/24 17:34	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 17:34	1
Benzene	**1.11**		0.500	0.220	ug/L			08/22/24 17:34	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 17:34	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 17:34	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 17:34	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 17:34	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 17:34	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 17:34	1
Chlorobenzene	**2.94**		1.00	0.400	ug/L			08/22/24 17:34	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 17:34	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 17:34	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 17:34	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 17:34	1
cis-1,2-Dichloroethene	**0.640**	**J**	1.00	0.210	ug/L			08/22/24 17:34	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 17:34	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 17:34	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 17:34	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 17:34	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 17:34	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 17:34	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 17:34	1
Toluene	**68.9**		1.00	0.430	ug/L			08/22/24 17:34	1
trans-1,2-Dichloroethene	**0.893**	**J**	1.00	0.270	ug/L			08/22/24 17:34	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 17:34	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 17:34	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 17:34	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 17:34	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 17:34	1
Vinyl chloride	**0.759**	**J**	1.00	0.180	ug/L			08/22/24 17:34	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 17:34	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-34_24_08

Date Collected: 08/20/24 12:00
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*08/22/24 17:34*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/22/24 17:34*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/22/24 17:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/23/24 09:21	08/27/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*70*		*45 - 129*	*08/23/24 09:21*	*08/27/24 19:35*	*1*
2-Fluorobiphenyl (Surr)	*69*		*39 - 118*	*08/23/24 09:21*	*08/27/24 19:35*	*1*
Terphenyl-d14 (Surr)	*53*		*12 - 144*	*08/23/24 09:21*	*08/27/24 19:35*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:41	1
Arsenic	**0.0359**		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:46	1
Barium	**0.336**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:46	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:46	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:46	1
Chromium	**0.00132**	**J**	0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:46	1
Cobalt	**0.00340**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:46	1
Copper	**0.00280**	**J**	0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:46	1
Lead	**0.000350**	**J**	0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:46	1
Nickel	**0.0471**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:46	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:46	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:46	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:46	1
Vanadium	**0.00243**	**J**	0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:46	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:46	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/27/24 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**47.0**		15.0	11.1	mg/L			08/22/24 15:56	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-102B_24_08
Date Collected: 08/20/24 15:40
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 17:57	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 17:57	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 17:57	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 17:57	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 17:57	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 17:57	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 17:57	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 17:57	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 17:57	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 17:57	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 17:57	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 17:57	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 17:57	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 17:57	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 17:57	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 17:57	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 17:57	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 17:57	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 17:57	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 17:57	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 17:57	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 17:57	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 17:57	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 17:57	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 17:57	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 17:57	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 17:57	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 17:57	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 17:57	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 17:57	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 17:57	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 17:57	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 17:57	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 17:57	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 17:57	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 17:57	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 17:57	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 17:57	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 17:57	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 17:57	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 17:57	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 17:57	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 17:57	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 17:57	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 17:57	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 17:57	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*08/22/24 17:57*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-102B_24_08
Lab Sample ID: 310-288673-11
Date Collected: 08/20/24 15:40
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/22/24 17:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/22/24 17:57*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:43	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:50	1
Barium	**0.138**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:50	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:50	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:50	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:50	1
Cobalt	**0.00106**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:50	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:50	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:50	1
Nickel	**0.00258**	**J**	0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:50	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:50	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:50	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:50	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:50	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-105A_24_08
Date Collected: 08/19/24 11:55
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 18:20	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 18:20	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 18:20	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 18:20	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 18:20	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 18:20	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 18:20	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 18:20	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 18:20	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 18:20	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 18:20	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 18:20	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 18:20	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 18:20	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 18:20	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 18:20	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 18:20	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 18:20	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 18:20	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 18:20	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 18:20	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 18:20	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 18:20	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 18:20	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 18:20	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 18:20	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 18:20	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 18:20	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 18:20	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 18:20	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 18:20	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 18:20	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 18:20	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 18:20	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 18:20	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 18:20	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 18:20	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 18:20	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 18:20	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 18:20	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 18:20	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 18:20	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 18:20	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 18:20	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 18:20	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 18:20	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*08/22/24 18:20*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-105A_24_08
Lab Sample ID: 310-288673-12

Date Collected: 08/19/24 11:55
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/22/24 18:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/22/24 18:20*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:48	1
Arsenic	**0.00143**	**J**	0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 17:57	1
Barium	**0.0780**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 17:57	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 17:57	1
Cadmium	**0.000140**	**J**	0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 17:57	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 17:57	1
Cobalt	**0.00424**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 17:57	1
Copper	**0.00731**		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 17:57	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 17:57	1
Nickel	**0.0117**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 17:57	1
Selenium	**0.00315**	**J**	0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 17:57	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 17:57	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 17:57	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 17:57	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.25**		1.88	1.39	mg/L			08/22/24 14:10	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-105B_24_08
Date Collected: 08/19/24 12:15
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 18:43	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 18:43	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 18:43	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 18:43	1
1,1-Dichloroethane	**5.29**		1.00	0.220	ug/L			08/22/24 18:43	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 18:43	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 18:43	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 18:43	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 18:43	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 18:43	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 18:43	1
1,2-Dichloropropane	**0.306**	**J**	1.00	0.270	ug/L			08/22/24 18:43	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 18:43	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 18:43	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 18:43	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 18:43	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 18:43	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 18:43	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 18:43	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 18:43	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 18:43	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 18:43	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 18:43	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 18:43	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 18:43	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 18:43	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 18:43	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 18:43	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 18:43	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 18:43	1
cis-1,2-Dichloroethene	**0.815**	**J**	1.00	0.210	ug/L			08/22/24 18:43	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 18:43	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 18:43	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 18:43	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 18:43	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 18:43	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 18:43	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 18:43	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 18:43	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 18:43	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 18:43	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 18:43	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 18:43	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 18:43	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 18:43	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 18:43	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*08/22/24 18:43*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-105B_24_08
Lab Sample ID: 310-288673-13
Date Collected: 08/19/24 12:15
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/22/24 18:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/22/24 18:43*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 14:59	1
Arsenic	**0.00602**		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 18:15	1
Barium	**0.110**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 18:15	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 18:15	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 18:15	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 18:15	1
Cobalt	**0.00945**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 18:15	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 18:15	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 18:15	1
Nickel	**0.0131**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 18:15	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 18:15	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 18:15	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 18:15	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 18:15	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**1.75**	**J**	1.88	1.39	mg/L			08/22/24 14:10	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: MW-106A_24_08
Date Collected: 08/19/24 11:15
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 19:05	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 19:05	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 19:05	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 19:05	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 19:05	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 19:05	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 19:05	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 19:05	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 19:05	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 19:05	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 19:05	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 19:05	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 19:05	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 19:05	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 19:05	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 19:05	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 19:05	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 19:05	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 19:05	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 19:05	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 19:05	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 19:05	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 19:05	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 19:05	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 19:05	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 19:05	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 19:05	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 19:05	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 19:05	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 19:05	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 19:05	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 19:05	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 19:05	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 19:05	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 19:05	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 19:05	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 19:05	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 19:05	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 19:05	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 19:05	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 19:05	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 19:05	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 19:05	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 19:05	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 19:05	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 19:05	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*73 - 130*		*08/22/24 19:05*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-106A_24_08
Lab Sample ID: 310-288673-14

Date Collected: 08/19/24 11:15
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/22/24 19:05*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/22/24 19:05*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 15:01	1
Arsenic	**0.0128**		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 18:19	1
Barium	**0.230**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 18:19	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 18:19	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 18:19	1
Chromium	**0.00131**	**J**	0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 18:19	1
Cobalt	**0.0300**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 18:19	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 18:19	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 18:19	1
Nickel	**0.0555**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 18:19	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 18:19	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 18:19	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 18:19	1
Vanadium	**0.00112**	**J**	0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 18:19	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**17.5**		7.50	5.55	mg/L			08/22/24 14:10	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: FD-3_24_08
Date Collected: 08/19/24 00:00
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 19:28	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 19:28	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 19:28	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 19:28	1
1,1-Dichloroethane	**0.338**	**J**	1.00	0.220	ug/L			08/22/24 19:28	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 19:28	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 19:28	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 19:28	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 19:28	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 19:28	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 19:28	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 19:28	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 19:28	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 19:28	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 19:28	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 19:28	1
Acetone	**3.39**	**J**	10.0	3.10	ug/L			08/22/24 19:28	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 19:28	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 19:28	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 19:28	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 19:28	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 19:28	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 19:28	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 19:28	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 19:28	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 19:28	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 19:28	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 19:28	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 19:28	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 19:28	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 19:28	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 19:28	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 19:28	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 19:28	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 19:28	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 19:28	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 19:28	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 19:28	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 19:28	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 19:28	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 19:28	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 19:28	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 19:28	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 19:28	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 19:28	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 19:28	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*		*73 - 130*		*08/22/24 19:28*	*1*

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: FD-3_24_08

Date Collected: 08/19/24 00:00
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-15

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/22/24 19:28*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/22/24 19:28*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 15:03	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 18:23	1
Barium	**0.204**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 18:23	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 18:23	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 18:23	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 18:23	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 18:23	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 18:23	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 18:23	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 18:23	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 18:23	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 18:23	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 18:23	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 18:23	1
Zinc	**0.0110**	**J**	0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**7.50**		3.75	2.78	mg/L			08/22/24 14:10	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: FD-4_24_08
Date Collected: 08/20/24 00:00
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 19:51	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 19:51	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 19:51	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 19:51	1
1,1-Dichloroethane	**2.35**		1.00	0.220	ug/L			08/22/24 19:51	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 19:51	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 19:51	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 19:51	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 19:51	1
1,2-Dichlorobenzene	**1.22**		1.00	0.370	ug/L			08/22/24 19:51	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 19:51	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 19:51	1
1,4-Dichlorobenzene	**3.98**		1.00	0.230	ug/L			08/22/24 19:51	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 19:51	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 19:51	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 19:51	1
Acetone	**5.11**	**J**	10.0	3.10	ug/L			08/22/24 19:51	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 19:51	1
Benzene	**1.15**		0.500	0.220	ug/L			08/22/24 19:51	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 19:51	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 19:51	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 19:51	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 19:51	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 19:51	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 19:51	1
Chlorobenzene	**3.13**		1.00	0.400	ug/L			08/22/24 19:51	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 19:51	1
Chloroethane	**6.59**		4.00	0.790	ug/L			08/22/24 19:51	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 19:51	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 19:51	1
cis-1,2-Dichloroethene	**0.775**	**J**	1.00	0.210	ug/L			08/22/24 19:51	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 19:51	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 19:51	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 19:51	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 19:51	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 19:51	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 19:51	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 19:51	1
Toluene	**66.0**		1.00	0.430	ug/L			08/22/24 19:51	1
trans-1,2-Dichloroethene	**0.959**	**J**	1.00	0.270	ug/L			08/22/24 19:51	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 19:51	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 19:51	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 19:51	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 19:51	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 19:51	1
Vinyl chloride	**0.914**	**J**	1.00	0.180	ug/L			08/22/24 19:51	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*08/22/24 19:51*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: FD-4_24_08
Lab Sample ID: 310-288673-16

Date Collected: 08/20/24 00:00
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/22/24 19:51*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/22/24 19:51*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 15:06	1
Arsenic	**0.0367**		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 18:26	1
Barium	**0.339**		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 18:26	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 18:26	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 18:26	1
Chromium	**0.00133**	**J**	0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 18:26	1
Cobalt	**0.00346**		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 18:26	1
Copper	**0.00315**	**J**	0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 18:26	1
Lead	**0.000363**	**J**	0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 18:26	1
Nickel	**0.0487**		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 18:26	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 18:26	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 18:26	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 18:26	1
Vanadium	**0.00241**	**J**	0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 18:26	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**42.0**		7.50	5.55	mg/L			08/22/24 14:10	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: FB-2_24_08
Lab Sample ID: 310-288673-17
Date Collected: 08/19/24 11:10
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 13:47	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 13:47	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 13:47	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 13:47	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 13:47	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 13:47	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 13:47	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 13:47	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 13:47	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 13:47	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 13:47	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 13:47	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/22/24 13:47	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 13:47	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 13:47	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 13:47	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 13:47	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 13:47	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 13:47	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 13:47	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 13:47	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 13:47	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 13:47	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 13:47	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 13:47	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 13:47	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 13:47	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 13:47	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 13:47	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 13:47	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 13:47	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 13:47	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 13:47	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 13:47	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 13:47	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 13:47	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 13:47	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 13:47	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 13:47	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 13:47	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 13:47	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 13:47	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 13:47	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 13:47	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 13:47	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 13:47	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 13:47	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 13:47	1

Client Sample ID: FB-2_24_08
Lab Sample ID: 310-288673-17
Date Collected: 08/19/24 11:10
Matrix: Water
Date Received: 08/21/24 13:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*73 - 130*		*08/22/24 13:47*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/22/24 13:47*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/22/24 13:47*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m & p-Cresol	<0.700		10.0	0.700	ug/L		08/23/24 09:21	08/27/24 20:00	1
2,2'-oxybis(1-chloropropane)	<0.540		10.0	0.540	ug/L		08/23/24 09:21	08/27/24 20:00	1
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/23/24 09:21	08/27/24 20:00	1
Diethyl phthalate	<1.70		10.0	1.70	ug/L		08/23/24 09:21	08/27/24 20:00	1
Di-n-butyl phthalate	<5.60		10.0	5.60	ug/L		08/23/24 09:21	08/27/24 20:00	1
Phenol	<1.10		10.0	1.10	ug/L		08/23/24 09:21	08/27/24 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*63*		*25 - 110*	*08/23/24 09:21*	*08/27/24 20:00*	*1*
Phenol-d5 (Surr)	*64*		*21 - 110*	*08/23/24 09:21*	*08/27/24 20:00*	*1*
Nitrobenzene-d5 (Surr)	*86*		*45 - 129*	*08/23/24 09:21*	*08/27/24 20:00*	*1*
2-Fluorobiphenyl (Surr)	*87*		*39 - 118*	*08/23/24 09:21*	*08/27/24 20:00*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*27 - 136*	*08/23/24 09:21*	*08/27/24 20:00*	*1*
Terphenyl-d14 (Surr)	*96*		*12 - 144*	*08/23/24 09:21*	*08/27/24 20:00*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0315		0.0696	0.0315	ug/L		08/26/24 14:09	08/30/24 13:07	1
beta-BHC	<0.0402		0.0696	0.0402	ug/L		08/26/24 14:09	08/30/24 13:07	1
4,4'-DDT	<0.0457		0.0696	0.0457	ug/L		08/26/24 14:09	08/30/24 13:07	1
delta-BHC	<0.0293		0.0696	0.0293	ug/L		08/26/24 14:09	08/30/24 13:07	1
Dieldrin	<0.0283		0.0696	0.0283	ug/L		08/26/24 14:09	08/30/24 13:07	1
Heptachlor	<0.0359		0.0696	0.0359	ug/L		08/26/24 14:09	08/30/24 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*54*		*10 - 136*	*08/26/24 14:09*	*08/30/24 13:07*	*1*
Tetrachloro-m-xylene	*100*		*10 - 130*	*08/26/24 14:09*	*08/30/24 13:07*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.320		1.04	0.320	ug/L		08/26/24 10:27	08/28/24 20:06	1
2,4,5-TP	<0.0870		1.04	0.0870	ug/L		08/26/24 10:27	08/28/24 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*82*		*25 - 130*	*08/26/24 10:27*	*08/28/24 20:06*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 15:08	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 18:30	1
Barium	<0.000660		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 18:30	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 18:30	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 18:30	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 18:30	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 18:30	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 18:30	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: FB-2_24_08
Lab Sample ID: 310-288673-17
Date Collected: 08/19/24 11:10
Matrix: Water
Date Received: 08/21/24 13:10

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 18:30	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 18:30	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 18:30	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 18:30	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 18:30	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 18:30	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 18:30	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/27/24 18:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		09/03/24 14:45	09/04/24 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/22/24 15:56	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Client Sample ID: TB-3_24_08
Date Collected: 08/20/24 00:00
Date Received: 08/21/24 13:10

Lab Sample ID: 310-288673-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 01:08	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 01:08	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 01:08	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 01:08	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/23/24 01:08	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 01:08	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 01:08	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 01:08	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 01:08	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/23/24 01:08	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 01:08	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 01:08	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/23/24 01:08	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/23/24 01:08	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 01:08	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 01:08	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 01:08	1
Acetone	**3.89**	**J**	10.0	3.10	ug/L			08/23/24 01:08	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 01:08	1
Benzene	<0.220		0.500	0.220	ug/L			08/23/24 01:08	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 01:08	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 01:08	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 01:08	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 01:08	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 01:08	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 01:08	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/23/24 01:08	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 01:08	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 01:08	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 01:08	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 01:08	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/23/24 01:08	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 01:08	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 01:08	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 01:08	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 01:08	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 01:08	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 01:08	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 01:08	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 01:08	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/23/24 01:08	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 01:08	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 01:08	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 01:08	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 01:08	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 01:08	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/23/24 01:08	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 01:08	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: TB-3_24_08
Lab Sample ID: 310-288673-18
Date Collected: 08/20/24 00:00
Matrix: Water
Date Received: 08/21/24 13:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	118		73 - 130		08/23/24 01:08	1
Toluene-d8 (Surr)	94		80 - 120		08/23/24 01:08	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/23/24 01:08	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		DBFM	TOL	BFB						
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)						
310-288673-1	AW-5_24_08	117	95	100						
310-288673-1 MS	AW-5_24_08	104	97	102						
310-288673-1 MSD	AW-5_24_08	104	97	99						
310-288673-2	AW-6_24_08	119	96	100						
310-288673-3	MW-11_24_08	118	94	100						
310-288673-4	MW-12_24_08	118	95	99						
310-288673-5	MW-26_24_08	119	94	99						
310-288673-6	MW-28_24_08	120	95	100						
310-288673-7	MW-30_24_08	118	93	100						
310-288673-8	MW-31_24_08	118	94	99						
310-288673-9	MW-32_24_08	117	94	101						
310-288673-10	MW-34_24_08	111	95	100						
310-288673-11	MW-102B_24_08	118	95	101						
310-288673-12	MW-105A_24_08	118	94	100						
310-288673-13	MW-105B_24_08	118	94	101						
310-288673-14	MW-106A_24_08	120	94	100						
310-288673-15	FD-3_24_08	121	94	101						
310-288673-16	FD-4_24_08	111	95	101						
310-288673-17	FB-2_24_08	119	96	100						
310-288673-18	TB-3_24_08	118	94	101						
310-288727-H-2 MS	Matrix Spike	100	98	99						
310-288727-H-2 MSD	Matrix Spike Duplicate	99	96	99						
LCS 310-431148/6	Lab Control Sample	100	97	100						
LCS 310-431148/7	Lab Control Sample	120	93	98						
LCS 310-431192/6	Lab Control Sample	101	97	98						
LCS 310-431192/7	Lab Control Sample	120	95	100						
MB 310-431148/5	Method Blank	120	94	100						
MB 310-431192/5	Method Blank	119	95	98						

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		NBZ	FBP	TPHL	2FP	PHL	TBP		
Lab Sample ID	Client Sample ID	(45-129)	(39-118)	(12-144)	(25-110)	(21-110)	(27-136)		
310-288673-2	AW-6_24_08	70	71	67					
310-288673-3	MW-11_24_08	77	77	61					
310-288673-5	MW-26_24_08	82	84	65					
310-288673-6	MW-28_24_08				58	58	73		
310-288673-7	MW-30_24_08	94	102	79					
310-288673-9	MW-32_24_08	73	73	73					
310-288673-10	MW-34_24_08	70	69	53					
310-288673-17	FB-2_24_08	86	87	96	63	64	78		
310-288727-A-2-A MS	Matrix Spike	85	94	102	64	61	82		
310-288727-A-2-B MSD	Matrix Spike Duplicate	80	81	92	61	59	78		

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHL	2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(45-129)	(39-118)	(12-144)	(25-110)	(21-110)	(27-136)
LCS 310-431245/2-A	Lab Control Sample	91	86	104	66	64	85
MB 310-431245/1-A	Method Blank	106	100	113	72	73	97

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)
2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-288673-4	MW-12_24_08	49	51
310-288673-5	MW-26_24_08	88	88
310-288673-17	FB-2_24_08	54	100
LCS 310-431439/4-A	Lab Control Sample	78	91
LCSD 310-431439/5-A	Lab Control Sample Dup	85	71
MB 310-431439/1-A	Method Blank	87	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(25-130)
310-288673-1	AW-5_24_08	86
310-288673-2	AW-6_24_08	107
310-288673-9	MW-32_24_08	89
310-288673-17	FB-2_24_08	82
LB 500-782648/1-F	Method Blank	80
LCS 500-783223/2-A	Lab Control Sample	93
LCSD 500-783223/3-A	Lab Control Sample Dup	88
MB 500-783223/1-A	Method Blank	75

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(25-130)
500-255347-C-1-I MS	Matrix Spike	96

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Surrogate Legend

DCPAA = DCAA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-431148/5
Matrix: Water
Analysis Batch: 431148

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 12:15	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 12:15	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 12:15	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 12:15	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 12:15	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 12:15	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 12:15	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 12:15	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 12:15	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 12:15	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 12:15	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 12:15	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/22/24 12:15	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 12:15	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 12:15	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 12:15	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 12:15	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 12:15	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 12:15	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 12:15	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 12:15	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 12:15	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 12:15	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 12:15	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 12:15	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 12:15	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 12:15	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 12:15	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 12:15	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 12:15	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 12:15	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 12:15	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 12:15	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 12:15	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 12:15	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 12:15	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 12:15	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 12:15	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 12:15	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 12:15	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 12:15	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 12:15	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 12:15	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 12:15	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 12:15	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 12:15	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 12:15	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 12:15	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-431148/5
Matrix: Water
Analysis Batch: 431148

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	120		73 - 130		08/22/24 12:15	1
Toluene-d8 (Surr)	94		80 - 120		08/22/24 12:15	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/22/24 12:15	1

Lab Sample ID: LCS 310-431148/6
Matrix: Water
Analysis Batch: 431148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	18.39		ug/L		92	71 - 120
1,1,1-Trichloroethane	20.0	20.03		ug/L		100	73 - 129
1,1,2,2-Tetrachloroethane	20.0	17.91		ug/L		90	68 - 124
1,1,2-Trichloroethane	20.0	18.46		ug/L		92	73 - 123
1,1-Dichloroethane	20.0	21.57		ug/L		108	70 - 127
1,1-Dichloroethene	20.0	22.13		ug/L		111	63 - 132
1,2,3-Trichloropropane	20.0	17.85		ug/L		89	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	18.15		ug/L		91	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.83		ug/L		94	75 - 125
1,2-Dichlorobenzene	20.0	18.78		ug/L		94	74 - 120
1,2-Dichloroethane	20.0	18.20		ug/L		91	71 - 125
1,2-Dichloropropane	20.0	22.31		ug/L		112	73 - 124
1,3-Dichlorobenzene	20.0	19.11		ug/L		96	72 - 120
1,4-Dichlorobenzene	20.0	18.93		ug/L		95	72 - 120
2-Butanone (MEK)	40.0	36.22		ug/L		91	50 - 150
2-Hexanone	40.0	35.74		ug/L		89	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	36.16		ug/L		90	60 - 139
Acetone	40.0	32.75		ug/L		82	50 - 150
Acrylonitrile	200	215.2		ug/L		108	50 - 150
Benzene	20.0	21.76		ug/L		109	72 - 124
Bromochloromethane	20.0	22.59		ug/L		113	73 - 130
Bromodichloromethane	20.0	19.30		ug/L		96	74 - 122
Bromoform	20.0	17.52		ug/L		88	61 - 122
Carbon disulfide	20.0	21.85		ug/L		109	59 - 135
Carbon tetrachloride	20.0	20.92		ug/L		105	67 - 132
Chlorobenzene	20.0	19.29		ug/L		96	76 - 120
Chlorodibromomethane	20.0	18.07		ug/L		90	71 - 121
Chloroform	20.0	19.52		ug/L		98	72 - 125
cis-1,2-Dichloroethene	20.0	20.90		ug/L		104	74 - 123
cis-1,3-Dichloropropene	20.0	19.85		ug/L		99	71 - 125
Dibromomethane	20.0	20.10		ug/L		100	74 - 125
Ethylbenzene	20.0	19.82		ug/L		99	74 - 122
Iodomethane	20.0	17.61		ug/L		88	10 - 150
Methylene Chloride	20.0	23.19		ug/L		116	50 - 150
Styrene	20.0	20.35		ug/L		102	74 - 121
Tetrachloroethene	20.0	20.98		ug/L		105	71 - 130
Toluene	20.0	19.98		ug/L		100	74 - 123
trans-1,2-Dichloroethene	20.0	21.01		ug/L		105	70 - 126
trans-1,3-Dichloropropene	20.0	20.06		ug/L		100	69 - 123

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-431148/6
Matrix: Water
Analysis Batch: 431148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,4-Dichloro-2-butene	20.0	16.29		ug/L		81	50 - 150
Trichloroethene	20.0	21.96		ug/L		110	72 - 126
Vinyl acetate	40.0	39.55		ug/L		99	50 - 150
Xylenes, Total	40.0	40.61		ug/L		102	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCS 310-431148/7
Matrix: Water
Analysis Batch: 431148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	13.03		ug/L		65	23 - 150
Chloroethane	20.0	18.26		ug/L		91	54 - 136
Chloromethane	20.0	18.53		ug/L		93	38 - 150
Trichlorofluoromethane	20.0	18.54		ug/L		93	54 - 149
Vinyl chloride	20.0	18.51		ug/L		93	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*120*		*73 - 130*
Toluene-d8 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: 310-288673-1 MS
Matrix: Water
Analysis Batch: 431148

Client Sample ID: AW-5_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.380		20.0	18.10		ug/L		90	55 - 130
1,1,1-Trichloroethane	<0.190		20.0	16.36		ug/L		82	52 - 130
1,1,2,2-Tetrachloroethane	<0.470		20.0	16.48		ug/L		82	54 - 130
1,1,2-Trichloroethane	<0.450		20.0	16.78		ug/L		84	58 - 130
1,1-Dichloroethane	<0.220		20.0	17.90		ug/L		90	49 - 130
1,1-Dichloroethene	<0.560		20.0	16.74		ug/L		84	37 - 132
1,2,3-Trichloropropane	<0.590		20.0	16.64		ug/L		83	49 - 130
1,2-Dibromo-3-Chloropropane	<1.20		20.0	16.94		ug/L		85	38 - 150
1,2-Dibromoethane (EDB)	<0.340		20.0	17.77		ug/L		89	60 - 130
1,2-Dichlorobenzene	<0.370		20.0	17.63		ug/L		88	59 - 130
1,2-Dichloroethane	<0.390		20.0	16.33		ug/L		82	51 - 130
1,2-Dichloropropane	<0.270		20.0	19.82		ug/L		99	57 - 130
1,3-Dichlorobenzene	<0.300		20.0	18.09		ug/L		90	57 - 130
1,4-Dichlorobenzene	<0.230		20.0	17.54		ug/L		88	57 - 130
2-Butanone (MEK)	<2.10		40.0	31.97		ug/L		80	38 - 150
2-Hexanone	<2.00		40.0	34.22		ug/L		86	46 - 140
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	34.93		ug/L		87	47 - 139

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288673-1 MS
Matrix: Water
Analysis Batch: 431148

Client Sample ID: AW-5_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<3.10		40.0	30.67		ug/L		77	31 - 150
Acrylonitrile	<2.20		200	178.2		ug/L		89	40 - 150
Benzene	<0.220		20.0	17.84		ug/L		89	46 - 130
Bromochloromethane	<0.540		20.0	19.41		ug/L		97	57 - 130
Bromodichloromethane	<0.390		20.0	17.63		ug/L		88	57 - 130
Bromoform	<0.780		20.0	15.70		ug/L		79	44 - 130
Carbon disulfide	<0.450		20.0	16.60		ug/L		83	38 - 135
Carbon tetrachloride	<0.650		20.0	16.44		ug/L		82	45 - 132
Chlorobenzene	<0.400		20.0	18.22		ug/L		91	59 - 130
Chlorodibromomethane	<0.750		20.0	16.37		ug/L		82	54 - 130
Chloroform	<1.30		20.0	17.40		ug/L		87	51 - 130
cis-1,2-Dichloroethene	<0.210		20.0	17.96		ug/L		90	45 - 130
cis-1,3-Dichloropropene	<0.250		20.0	17.52		ug/L		88	53 - 130
Dibromomethane	<0.330		20.0	18.32		ug/L		92	59 - 130
Ethylbenzene	<0.310		20.0	18.38		ug/L		92	45 - 130
Iodomethane	<7.00		20.0	11.47		ug/L		57	10 - 150
Methylene Chloride	<1.70		20.0	18.90		ug/L		95	37 - 150
Styrene	<0.370		20.0	19.36		ug/L		97	47 - 130
Tetrachloroethene	<0.480		20.0	17.59		ug/L		88	47 - 130
Toluene	<0.430		20.0	17.72		ug/L		89	51 - 130
trans-1,2-Dichloroethene	<0.270		20.0	17.32		ug/L		87	48 - 130
trans-1,3-Dichloropropene	<0.560		20.0	18.70		ug/L		93	50 - 130
trans-1,4-Dichloro-2-butene	<1.10		20.0	14.48		ug/L		72	26 - 150
Trichloroethene	<0.430		20.0	19.10		ug/L		96	51 - 130
Vinyl acetate	<2.50		40.0	32.86		ug/L		82	29 - 150
Xylenes, Total	<0.400		40.0	37.53		ug/L		94	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: 310-288673-1 MSD
Matrix: Water
Analysis Batch: 431148

Client Sample ID: AW-5_24_08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		20.0	16.99		ug/L		85	55 - 130	6	20
1,1,1-Trichloroethane	<0.190		20.0	15.92		ug/L		80	52 - 130	3	20
1,1,2,2-Tetrachloroethane	<0.470		20.0	16.22		ug/L		81	54 - 130	2	20
1,1,2-Trichloroethane	<0.450		20.0	17.04		ug/L		85	58 - 130	2	20
1,1-Dichloroethane	<0.220		20.0	17.12		ug/L		86	49 - 130	4	20
1,1-Dichloroethene	<0.560		20.0	15.58		ug/L		78	37 - 132	7	26
1,2,3-Trichloropropane	<0.590		20.0	16.65		ug/L		83	49 - 130	0	26
1,2-Dibromo-3-Chloropropane	<1.20		20.0	16.65		ug/L		83	38 - 150	2	20
1,2-Dibromoethane (EDB)	<0.340		20.0	17.38		ug/L		87	60 - 130	2	20
1,2-Dichlorobenzene	<0.370		20.0	17.60		ug/L		88	59 - 130	0	20
1,2-Dichloroethane	<0.390		20.0	15.74		ug/L		79	51 - 130	4	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288673-1 MSD
Client Sample ID: AW-5_24_08
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane	<0.270		20.0	19.31		ug/L		97	57 - 130	3	20
1,3-Dichlorobenzene	<0.300		20.0	18.06		ug/L		90	57 - 130	0	20
1,4-Dichlorobenzene	<0.230		20.0	17.54		ug/L		88	57 - 130	0	20
2-Butanone (MEK)	<2.10		40.0	31.48		ug/L		79	38 - 150	2	20
2-Hexanone	<2.00		40.0	33.24		ug/L		83	46 - 140	3	20
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	33.75		ug/L		84	47 - 139	3	20
Acetone	<3.10		40.0	29.57		ug/L		74	31 - 150	4	29
Acrylonitrile	<2.20		200	176.7		ug/L		88	40 - 150	1	20
Benzene	<0.220		20.0	17.30		ug/L		86	46 - 130	3	20
Bromochloromethane	<0.540		20.0	18.84		ug/L		94	57 - 130	3	20
Bromodichloromethane	<0.390		20.0	17.85		ug/L		89	57 - 130	1	20
Bromoform	<0.780		20.0	15.75		ug/L		79	44 - 130	0	20
Carbon disulfide	<0.450		20.0	14.94		ug/L		75	38 - 135	11	30
Carbon tetrachloride	<0.650		20.0	15.94		ug/L		80	45 - 132	3	20
Chlorobenzene	<0.400		20.0	17.64		ug/L		88	59 - 130	3	20
Chlorodibromomethane	<0.750		20.0	16.58		ug/L		83	54 - 130	1	20
Chloroform	<1.30		20.0	16.97		ug/L		85	51 - 130	3	20
cis-1,2-Dichloroethene	<0.210		20.0	17.41		ug/L		87	45 - 130	3	20
cis-1,3-Dichloropropene	<0.250		20.0	17.07		ug/L		85	53 - 130	3	20
Dibromomethane	<0.330		20.0	17.60		ug/L		88	59 - 130	4	20
Ethylbenzene	<0.310		20.0	18.02		ug/L		90	45 - 130	2	20
Iodomethane	<7.00		20.0	13.22		ug/L		66	10 - 150	14	35
Methylene Chloride	<1.70		20.0	17.60		ug/L		88	37 - 150	7	24
Styrene	<0.370		20.0	18.98		ug/L		95	47 - 130	2	20
Tetrachloroethene	<0.480		20.0	17.68		ug/L		88	47 - 130	1	20
Toluene	<0.430		20.0	16.98		ug/L		85	51 - 130	4	20
trans-1,2-Dichloroethene	<0.270		20.0	15.87		ug/L		79	48 - 130	9	22
trans-1,3-Dichloropropene	<0.560		20.0	18.21		ug/L		91	50 - 130	3	20
trans-1,4-Dichloro-2-butene	<1.10		20.0	14.14		ug/L		71	26 - 150	2	23
Trichloroethene	<0.430		20.0	18.00		ug/L		90	51 - 130	6	20
Vinyl acetate	<2.50		40.0	30.75		ug/L		77	29 - 150	7	23
Xylenes, Total	<0.400		40.0	37.10		ug/L		93	43 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 310-431192/5
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/22/24 23:15	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/22/24 23:15	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/22/24 23:15	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/22/24 23:15	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/22/24 23:15	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-431192/5
Matrix: Water
Analysis Batch: 431192

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/22/24 23:15	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/22/24 23:15	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/22/24 23:15	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/22/24 23:15	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/22/24 23:15	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/22/24 23:15	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/22/24 23:15	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/22/24 23:15	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/22/24 23:15	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/22/24 23:15	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/22/24 23:15	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/22/24 23:15	1
Acetone	<3.10		10.0	3.10	ug/L			08/22/24 23:15	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/22/24 23:15	1
Benzene	<0.220		0.500	0.220	ug/L			08/22/24 23:15	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/22/24 23:15	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/22/24 23:15	1
Bromoform	<0.780		5.00	0.780	ug/L			08/22/24 23:15	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/22/24 23:15	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/22/24 23:15	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/22/24 23:15	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/22/24 23:15	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/22/24 23:15	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/22/24 23:15	1
Chloroform	<1.30		3.00	1.30	ug/L			08/22/24 23:15	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/22/24 23:15	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/22/24 23:15	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/22/24 23:15	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/22/24 23:15	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/22/24 23:15	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/22/24 23:15	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/22/24 23:15	1
Styrene	<0.370		1.00	0.370	ug/L			08/22/24 23:15	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/22/24 23:15	1
Toluene	<0.430		1.00	0.430	ug/L			08/22/24 23:15	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/22/24 23:15	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/22/24 23:15	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/22/24 23:15	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/22/24 23:15	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/22/24 23:15	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/22/24 23:15	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/22/24 23:15	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/22/24 23:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*73 - 130*		*08/22/24 23:15*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/22/24 23:15*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*08/22/24 23:15*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-431192/6
Matrix: Water
Analysis Batch: 431192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	18.00		ug/L		90	71 - 120
1,1,1-Trichloroethane	20.0	19.30		ug/L		97	73 - 129
1,1,2,2-Tetrachloroethane	20.0	18.25		ug/L		91	68 - 124
1,1,2-Trichloroethane	20.0	17.97		ug/L		90	73 - 123
1,1-Dichloroethane	20.0	20.86		ug/L		104	70 - 127
1,1-Dichloroethene	20.0	21.37		ug/L		107	63 - 132
1,2,3-Trichloropropane	20.0	18.63		ug/L		93	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	17.78		ug/L		89	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.77		ug/L		94	75 - 125
1,2-Dichlorobenzene	20.0	19.15		ug/L		96	74 - 120
1,2-Dichloroethane	20.0	17.50		ug/L		87	71 - 125
1,2-Dichloropropane	20.0	21.36		ug/L		107	73 - 124
1,3-Dichlorobenzene	20.0	19.10		ug/L		96	72 - 120
1,4-Dichlorobenzene	20.0	18.76		ug/L		94	72 - 120
2-Butanone (MEK)	40.0	37.57		ug/L		94	50 - 150
2-Hexanone	40.0	37.12		ug/L		93	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	37.39		ug/L		93	60 - 139
Acetone	40.0	36.79		ug/L		92	50 - 150
Acrylonitrile	200	218.5		ug/L		109	50 - 150
Benzene	20.0	21.17		ug/L		106	72 - 124
Bromochloromethane	20.0	21.98		ug/L		110	73 - 130
Bromodichloromethane	20.0	19.14		ug/L		96	74 - 122
Bromoform	20.0	17.75		ug/L		89	61 - 122
Carbon disulfide	20.0	20.94		ug/L		105	59 - 135
Carbon tetrachloride	20.0	19.68		ug/L		98	67 - 132
Chlorobenzene	20.0	18.83		ug/L		94	76 - 120
Chlorodibromomethane	20.0	17.79		ug/L		89	71 - 121
Chloroform	20.0	18.99		ug/L		95	72 - 125
cis-1,2-Dichloroethene	20.0	20.49		ug/L		102	74 - 123
cis-1,3-Dichloropropene	20.0	19.04		ug/L		95	71 - 125
Dibromomethane	20.0	19.46		ug/L		97	74 - 125
Ethylbenzene	20.0	19.03		ug/L		95	74 - 122
Iodomethane	20.0	16.47		ug/L		82	10 - 150
Methylene Chloride	20.0	22.32		ug/L		112	50 - 150
Styrene	20.0	20.07		ug/L		100	74 - 121
Tetrachloroethene	20.0	19.92		ug/L		100	71 - 130
Toluene	20.0	19.05		ug/L		95	74 - 123
trans-1,2-Dichloroethene	20.0	20.25		ug/L		101	70 - 126
trans-1,3-Dichloropropene	20.0	19.78		ug/L		99	69 - 123
trans-1,4-Dichloro-2-butene	20.0	16.54		ug/L		83	50 - 150
Trichloroethene	20.0	21.68		ug/L		108	72 - 126
Vinyl acetate	40.0	38.40		ug/L		96	50 - 150
Xylenes, Total	40.0	39.68		ug/L		99	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 310-431192/7
Matrix: Water
Analysis Batch: 431192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromomethane			20.0	14.13		ug/L		71	23 - 150		
Chloroethane			20.0	20.17		ug/L		101	54 - 136		
Chloromethane			20.0	20.30		ug/L		102	38 - 150		
Trichlorofluoromethane			20.0	21.90		ug/L		110	54 - 149		
Vinyl chloride			20.0	20.81		ug/L		104	56 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*120*		*73 - 130*
Toluene-d8 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: 310-288727-H-2 MS
Matrix: Water
Analysis Batch: 431192

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1,2-Tetrachloroethane	<0.380		20.0	16.59		ug/L		83	55 - 130		
1,1,1-Trichloroethane	0.483	J	20.0	16.61		ug/L		81	52 - 130		
1,1,2,2-Tetrachloroethane	<0.470		20.0	17.55		ug/L		88	54 - 130		
1,1,2-Trichloroethane	<0.450		20.0	16.83		ug/L		84	58 - 130		
1,1-Dichloroethane	1.49		20.0	19.50		ug/L		90	49 - 130		
1,1-Dichloroethene	1.52	J	20.0	19.55		ug/L		90	37 - 132		
1,2,3-Trichloropropane	<0.590		20.0	16.59		ug/L		83	49 - 130		
1,2-Dibromo-3-Chloropropane	<1.20		20.0	15.98		ug/L		80	38 - 150		
1,2-Dibromoethane (EDB)	<0.340		20.0	17.09		ug/L		85	60 - 130		
1,2-Dichlorobenzene	<0.370		20.0	17.34		ug/L		87	59 - 130		
1,2-Dichloroethane	<0.390		20.0	15.24		ug/L		76	51 - 130		
1,2-Dichloropropane	<0.270		20.0	18.87		ug/L		94	57 - 130		
1,3-Dichlorobenzene	<0.300		20.0	17.09		ug/L		85	57 - 130		
1,4-Dichlorobenzene	<0.230		20.0	17.00		ug/L		85	57 - 130		
2-Butanone (MEK)	<2.10		40.0	32.44		ug/L		81	38 - 150		
2-Hexanone	<2.00		40.0	32.90		ug/L		82	46 - 140		
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	33.75		ug/L		84	47 - 139		
Acetone	<3.10		40.0	31.93		ug/L		80	31 - 150		
Acrylonitrile	<2.20		200	187.2		ug/L		94	40 - 150		
Benzene	<0.220		20.0	18.80		ug/L		94	46 - 130		
Bromochloromethane	<0.540		20.0	19.42		ug/L		97	57 - 130		
Bromodichloromethane	<0.390		20.0	16.52		ug/L		83	57 - 130		
Bromoform	<0.780		20.0	16.27		ug/L		81	44 - 130		
Carbon disulfide	<0.450		20.0	19.63		ug/L		98	38 - 135		
Carbon tetrachloride	<0.650		20.0	16.37		ug/L		82	45 - 132		
Chlorobenzene	<0.400		20.0	16.86		ug/L		84	59 - 130		
Chlorodibromomethane	<0.750		20.0	16.08		ug/L		80	54 - 130		
Chloroform	<1.30		20.0	16.85		ug/L		84	51 - 130		
cis-1,2-Dichloroethene	116		20.0	120.5	4	ug/L		24	45 - 130		
cis-1,3-Dichloropropene	<0.250		20.0	16.57		ug/L		83	53 - 130		
Dibromomethane	<0.330		20.0	16.81		ug/L		84	59 - 130		
Ethylbenzene	<0.310		20.0	16.87		ug/L		84	45 - 130		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288727-H-2 MS
Matrix: Water
Analysis Batch: 431192

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iodomethane	<7.00		20.0	15.00		ug/L		75	10 - 150
Methylene Chloride	<1.70		20.0	20.17		ug/L		101	37 - 150
Styrene	<0.370		20.0	18.36		ug/L		92	47 - 130
Tetrachloroethene	446		20.0	384.1	4	ug/L		-311	47 - 130
Toluene	<0.430		20.0	17.05		ug/L		85	51 - 130
trans-1,2-Dichloroethene	0.660	J	20.0	18.61		ug/L		90	48 - 130
trans-1,3-Dichloropropene	<0.560		20.0	17.13		ug/L		86	50 - 130
trans-1,4-Dichloro-2-butene	<1.10		20.0	13.57		ug/L		68	26 - 150
Trichloroethene	44.6		20.0	58.91		ug/L		72	51 - 130
Vinyl acetate	<2.50		40.0	30.84		ug/L		77	29 - 150
Xylenes, Total	<0.400		40.0	35.68		ug/L		89	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: 310-288727-H-2 MSD
Matrix: Water
Analysis Batch: 431192

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		20.0	16.17		ug/L		81	55 - 130	3	20
1,1,1-Trichloroethane	0.483	J	20.0	16.00		ug/L		78	52 - 130	4	20
1,1,2,2-Tetrachloroethane	<0.470		20.0	16.82		ug/L		84	54 - 130	4	20
1,1,2-Trichloroethane	<0.450		20.0	16.12		ug/L		81	58 - 130	4	20
1,1-Dichloroethane	1.49		20.0	18.97		ug/L		87	49 - 130	3	20
1,1-Dichloroethene	1.52	J	20.0	19.01		ug/L		87	37 - 132	3	26
1,2,3-Trichloropropane	<0.590		20.0	16.49		ug/L		82	49 - 130	1	26
1,2-Dibromo-3-Chloropropane	<1.20		20.0	16.73		ug/L		84	38 - 150	5	20
1,2-Dibromoethane (EDB)	<0.340		20.0	16.76		ug/L		84	60 - 130	2	20
1,2-Dichlorobenzene	<0.370		20.0	17.48		ug/L		87	59 - 130	1	20
1,2-Dichloroethane	<0.390		20.0	14.82		ug/L		74	51 - 130	3	20
1,2-Dichloropropane	<0.270		20.0	18.05		ug/L		90	57 - 130	4	20
1,3-Dichlorobenzene	<0.300		20.0	17.34		ug/L		87	57 - 130	1	20
1,4-Dichlorobenzene	<0.230		20.0	17.05		ug/L		85	57 - 130	0	20
2-Butanone (MEK)	<2.10		40.0	33.48		ug/L		84	38 - 150	3	20
2-Hexanone	<2.00		40.0	31.95		ug/L		80	46 - 140	3	20
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	32.75		ug/L		82	47 - 139	3	20
Acetone	<3.10		40.0	30.89		ug/L		77	31 - 150	3	29
Acrylonitrile	<2.20		200	183.1		ug/L		92	40 - 150	2	20
Benzene	<0.220		20.0	17.97		ug/L		90	46 - 130	5	20
Bromochloromethane	<0.540		20.0	18.58		ug/L		93	57 - 130	4	20
Bromodichloromethane	<0.390		20.0	15.77		ug/L		79	57 - 130	5	20
Bromoform	<0.780		20.0	15.92		ug/L		80	44 - 130	2	20
Carbon disulfide	<0.450		20.0	18.03		ug/L		90	38 - 135	9	30
Carbon tetrachloride	<0.650		20.0	15.85		ug/L		79	45 - 132	3	20
Chlorobenzene	<0.400		20.0	16.49		ug/L		82	59 - 130	2	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288727-H-2 MSD
Matrix: Water
Analysis Batch: 431192

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorodibromomethane	<0.750		20.0	15.98		ug/L		80	54 - 130	1	20
Chloroform	<1.30		20.0	16.30		ug/L		82	51 - 130	3	20
cis-1,2-Dichloroethene	116		20.0	116.8	4	ug/L		5	45 - 130	3	20
cis-1,3-Dichloropropene	<0.250		20.0	16.08		ug/L		80	53 - 130	3	20
Dibromomethane	<0.330		20.0	16.58		ug/L		83	59 - 130	1	20
Ethylbenzene	<0.310		20.0	16.46		ug/L		82	45 - 130	2	20
Iodomethane	<7.00		20.0	16.79		ug/L		84	10 - 150	11	35
Methylene Chloride	<1.70		20.0	19.53		ug/L		98	37 - 150	3	24
Styrene	<0.370		20.0	17.91		ug/L		90	47 - 130	2	20
Tetrachloroethene	446		20.0	375.9	4	ug/L		-352	47 - 130	2	20
Toluene	<0.430		20.0	16.53		ug/L		83	51 - 130	3	20
trans-1,2-Dichloroethene	0.660	J	20.0	17.51		ug/L		84	48 - 130	6	22
trans-1,3-Dichloropropene	<0.560		20.0	16.43		ug/L		82	50 - 130	4	20
trans-1,4-Dichloro-2-butene	<1.10		20.0	13.08		ug/L		65	26 - 150	4	23
Trichloroethene	44.6		20.0	56.06		ug/L		57	51 - 130	5	20
Vinyl acetate	<2.50		40.0	31.29		ug/L		78	29 - 150	1	23
Xylenes, Total	<0.400		40.0	34.73		ug/L		87	43 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-431245/1-A
Matrix: Water
Analysis Batch: 431519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m & p-Cresol	<0.700		10.0	0.700	ug/L		08/23/24 09:21	08/27/24 12:50	1
Methylphenol, 3 & 4	<0.700		10.0	0.700	ug/L		08/23/24 09:21	08/27/24 12:50	1
2,2'-oxybis(1-chloropropane)	<0.540		10.0	0.540	ug/L		08/23/24 09:21	08/27/24 12:50	1
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/23/24 09:21	08/27/24 12:50	1
Diethyl phthalate	<1.70		10.0	1.70	ug/L		08/23/24 09:21	08/27/24 12:50	1
Di-n-butyl phthalate	<5.60		10.0	5.60	ug/L		08/23/24 09:21	08/27/24 12:50	1
Phenol	<1.10		10.0	1.10	ug/L		08/23/24 09:21	08/27/24 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*72*		*25 - 110*	*08/23/24 09:21*	*08/27/24 12:50*	*1*
Phenol-d5 (Surr)	*73*		*21 - 110*	*08/23/24 09:21*	*08/27/24 12:50*	*1*
Nitrobenzene-d5 (Surr)	*106*		*45 - 129*	*08/23/24 09:21*	*08/27/24 12:50*	*1*
2-Fluorobiphenyl (Surr)	*100*		*39 - 118*	*08/23/24 09:21*	*08/27/24 12:50*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*27 - 136*	*08/23/24 09:21*	*08/27/24 12:50*	*1*
Terphenyl-d14 (Surr)	*113*		*12 - 144*	*08/23/24 09:21*	*08/27/24 12:50*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-431245/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431519
Prep Batch: 431245

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m & p-Cresol			100	94.28		ug/L		94	46 - 117		
Methylphenol, 3 & 4			100	94.28		ug/L		94	46 - 117		
2,2'-oxybis(1-chloropropane)			100	91.76		ug/L		92	34 - 123		
Bis(2-ethylhexyl) phthalate			100	100.3		ug/L		100	43 - 143		
Diethyl phthalate			100	120.5		ug/L		120	43 - 135		
Di-n-butyl phthalate			100	109.1		ug/L		109	50 - 133		
Phenol			100	64.01		ug/L		64	29 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*66*		*25 - 110*
Phenol-d5 (Surr)	*64*		*21 - 110*
Nitrobenzene-d5 (Surr)	*91*		*45 - 129*
2-Fluorobiphenyl (Surr)	*86*		*39 - 118*
2,4,6-Tribromophenol (Surr)	*85*		*27 - 136*
Terphenyl-d14 (Surr)	*104*		*12 - 144*

Lab Sample ID: 310-288727-A-2-A MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431519
Prep Batch: 431245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
m & p-Cresol	<0.700		96.2	81.51		ug/L		85	46 - 117		
Methylphenol, 3 & 4	<0.700		96.2	81.51		ug/L		85	46 - 117		
2,2'-oxybis(1-chloropropane)	<0.540		96.2	82.45		ug/L		86	34 - 123		
Bis(2-ethylhexyl) phthalate	<5.50		96.2	92.56		ug/L		96	43 - 143		
Diethyl phthalate	<1.70		96.2	102.3		ug/L		106	43 - 135		
Di-n-butyl phthalate	<5.60		96.2	96.11		ug/L		100	50 - 133		
Phenol	<1.10		96.2	55.50		ug/L		58	29 - 110		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*64*		*25 - 110*
Phenol-d5 (Surr)	*61*		*21 - 110*
Nitrobenzene-d5 (Surr)	*85*		*45 - 129*
2-Fluorobiphenyl (Surr)	*94*		*39 - 118*
2,4,6-Tribromophenol (Surr)	*82*		*27 - 136*
Terphenyl-d14 (Surr)	*102*		*12 - 144*

Lab Sample ID: 310-288727-A-2-B MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431519
Prep Batch: 431245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m & p-Cresol	<0.700		100	76.03		ug/L		76	46 - 117	7	35
Methylphenol, 3 & 4	<0.700		100	76.03		ug/L		76	46 - 117	7	35
2,2'-oxybis(1-chloropropane)	<0.540		100	71.46		ug/L		71	34 - 123	14	35
Bis(2-ethylhexyl) phthalate	<5.50		100	79.66		ug/L		80	43 - 143	15	35
Diethyl phthalate	<1.70		100	88.03		ug/L		88	43 - 135	15	35
Di-n-butyl phthalate	<5.60		100	84.30		ug/L		84	50 - 133	13	35

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 310-288727-A-2-B MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431519
Prep Batch: 431245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	<1.10		100	51.12		ug/L		51	29 - 110	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*61*		*25 - 110*
Phenol-d5 (Surr)	*59*		*21 - 110*
Nitrobenzene-d5 (Surr)	*80*		*45 - 129*
2-Fluorobiphenyl (Surr)	*81*		*39 - 118*
2,4,6-Tribromophenol (Surr)	*78*		*27 - 136*
Terphenyl-d14 (Surr)	*92*		*12 - 144*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-431439/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431853
Prep Batch: 431439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0290		0.0640	0.0290	ug/L		08/26/24 14:09	08/30/24 10:24	1
beta-BHC	<0.0370		0.0640	0.0370	ug/L		08/26/24 14:09	08/30/24 10:24	1
4,4'-DDT	<0.0420		0.0640	0.0420	ug/L		08/26/24 14:09	08/30/24 10:24	1
delta-BHC	<0.0270		0.0640	0.0270	ug/L		08/26/24 14:09	08/30/24 10:24	1
Dieldrin	<0.0260		0.0640	0.0260	ug/L		08/26/24 14:09	08/30/24 10:24	1
Heptachlor	<0.0330		0.0640	0.0330	ug/L		08/26/24 14:09	08/30/24 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*10 - 136*	*08/26/24 14:09*	*08/30/24 10:24*	*1*
Tetrachloro-m-xylene	*74*		*10 - 130*	*08/26/24 14:09*	*08/30/24 10:24*	*1*

Lab Sample ID: LCS 310-431439/4-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431853
Prep Batch: 431439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
delta-BHC	1.00	0.7744		ug/L		77	33 - 134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*10 - 136*
Tetrachloro-m-xylene	*91*		*10 - 130*

Lab Sample ID: LCSD 310-431439/5-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431853
Prep Batch: 431439

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
delta-BHC	1.00	0.7233		ug/L		72	33 - 134	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*10 - 136*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 310-431439/5-A
Matrix: Water
Analysis Batch: 431853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431439

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	*71*		*10 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: LB 500-782648/1-F
Matrix: Water
Analysis Batch: 783707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783223

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<30.7		100	30.7	ug/L		08/26/24 10:27	08/28/24 18:16	1
2,4,5-TP	<8.34		100	8.34	ug/L		08/26/24 10:27	08/28/24 18:16	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	*80*		*25 - 130*	*08/26/24 10:27*	*08/28/24 18:16*	*1*

Lab Sample ID: MB 500-783223/1-A
Matrix: Water
Analysis Batch: 783707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.307		1.00	0.307	ug/L		08/26/24 10:27	08/28/24 17:20	1
2,4,5-TP	<0.0834		1.00	0.0834	ug/L		08/26/24 10:27	08/28/24 17:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	*75*		*25 - 130*	*08/26/24 10:27*	*08/28/24 17:20*	*1*

Lab Sample ID: LCS 500-783223/2-A
Matrix: Water
Analysis Batch: 783707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783223

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			10.1	9.741		ug/L		97	30 - 115		
2,4,5-TP			2.50	2.358		ug/L		94	32 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCAA	*93*		*25 - 130*

Lab Sample ID: LCSD 500-783223/3-A
Matrix: Water
Analysis Batch: 783707

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 783223

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			10.1	9.497		ug/L		95	30 - 115	3	20
2,4,5-TP			2.50	2.258		ug/L		90	32 - 115	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCAA	*88*		*25 - 130*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 500-255347-C-1-I MS
Matrix: Water
Analysis Batch: 783707

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 783223

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	<30.7		1010	986.2		ug/L		98	30 - 115
2,4,5-TP	<8.34		250	233.9		ug/L		94	32 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCAA	*96*		*25 - 130*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-431202/1-A
Matrix: Water
Analysis Batch: 431590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/27/24 16:38	1
Barium	<0.000660		0.00200	0.000660	mg/L		08/23/24 09:00	08/27/24 16:38	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/27/24 16:38	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/27/24 16:38	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/27/24 16:38	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/23/24 09:00	08/27/24 16:38	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/27/24 16:38	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/27/24 16:38	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/23/24 09:00	08/27/24 16:38	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/27/24 16:38	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/27/24 16:38	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/27/24 16:38	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/27/24 16:38	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/27/24 16:38	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/27/24 16:38	1

Lab Sample ID: MB 310-431202/1-A
Matrix: Water
Analysis Batch: 431998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/30/24 13:10	1

Lab Sample ID: LCS 310-431202/2-A
Matrix: Water
Analysis Batch: 431590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2235		mg/L		112	80 - 120
Barium	0.100	0.1088		mg/L		109	80 - 120
Beryllium	0.100	0.1088		mg/L		109	80 - 120
Cadmium	0.100	0.1020		mg/L		102	80 - 120
Chromium	0.100	0.1104		mg/L		110	80 - 120
Cobalt	0.100	0.1121		mg/L		112	80 - 120
Copper	0.200	0.2210		mg/L		111	80 - 120
Lead	0.200	0.2205		mg/L		110	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-431202/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431590
Prep Batch: 431202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.2212		mg/L		111	80 - 120
Selenium	0.400	0.4046		mg/L		101	80 - 120
Silver	0.100	0.1171		mg/L		117	80 - 120
Thallium	0.100	0.09963		mg/L		100	80 - 120
Vanadium	0.100	0.1048		mg/L		105	80 - 120
Zinc	0.200	0.2069		mg/L		103	80 - 120
Tin	0.200	0.2208		mg/L		110	80 - 120

Lab Sample ID: LCS 310-431202/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431998
Prep Batch: 431202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2115		mg/L		106	80 - 120

Lab Sample ID: 310-288673-1 MS
Client Sample ID: AW-5_24_08
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431590
Prep Batch: 431202

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00160	J	0.200	0.2285		mg/L		113	75 - 125
Barium	0.193		0.100	0.3123		mg/L		119	75 - 125
Beryllium	<0.000330		0.100	0.1036		mg/L		104	75 - 125
Cadmium	<0.000100		0.100	0.1011		mg/L		101	75 - 125
Chromium	<0.00120		0.100	0.1045		mg/L		104	75 - 125
Cobalt	0.00294		0.100	0.1076		mg/L		105	75 - 125
Copper	0.00503		0.200	0.2026		mg/L		99	75 - 125
Lead	<0.000260		0.200	0.2021		mg/L		101	75 - 125
Nickel	0.0107		0.200	0.1994		mg/L		94	75 - 125
Selenium	0.0172		0.400	0.4381		mg/L		105	75 - 125
Silver	0.000991	J	0.100	0.1128		mg/L		112	75 - 125
Thallium	<0.000570		0.100	0.09084		mg/L		91	75 - 125
Vanadium	<0.00110		0.100	0.1041		mg/L		104	75 - 125
Zinc	<0.00970		0.200	0.1958		mg/L		98	75 - 125
Tin	<0.00230		0.200	0.2284		mg/L		114	75 - 125

Lab Sample ID: 310-288673-1 MS
Client Sample ID: AW-5_24_08
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431998
Prep Batch: 431202

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00100		0.200	0.2194		mg/L		110	75 - 125

Lab Sample ID: 310-288673-1 MSD
Client Sample ID: AW-5_24_08
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431590
Prep Batch: 431202

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.00160	J	0.200	0.2293		mg/L		114	75 - 125	0	20
Barium	0.193		0.100	0.3111		mg/L		118	75 - 125	0	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-288673-1 MSD
Matrix: Water
Analysis Batch: 431590

Client Sample ID: AW-5_24_08
Prep Type: Total/NA
Prep Batch: 431202

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.000330		0.100	0.1018		mg/L		102	75 - 125	2	20
Cadmium	<0.000100		0.100	0.1018		mg/L		102	75 - 125	1	20
Chromium	<0.00120		0.100	0.1063		mg/L		106	75 - 125	2	20
Cobalt	0.00294		0.100	0.1078		mg/L		105	75 - 125	0	20
Copper	0.00503		0.200	0.2018		mg/L		98	75 - 125	0	20
Lead	<0.000260		0.200	0.2014		mg/L		101	75 - 125	0	20
Nickel	0.0107		0.200	0.1957		mg/L		93	75 - 125	2	20
Selenium	0.0172		0.400	0.4371		mg/L		105	75 - 125	0	20
Silver	0.000991	J	0.100	0.1115		mg/L		111	75 - 125	1	20
Thallium	<0.000570		0.100	0.09058		mg/L		91	75 - 125	0	20
Vanadium	<0.00110		0.100	0.1029		mg/L		103	75 - 125	1	20
Zinc	<0.00970		0.200	0.1958		mg/L		98	75 - 125	0	20
Tin	<0.00230		0.200	0.2246		mg/L		112	75 - 125	2	20

Lab Sample ID: 310-288673-1 MSD
Matrix: Water
Analysis Batch: 431998

Client Sample ID: AW-5_24_08
Prep Type: Total/NA
Prep Batch: 431202

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00100		0.200	0.2232		mg/L		112	75 - 125	2	20

Lab Sample ID: 310-288673-11 DU
Matrix: Water
Analysis Batch: 431590

Client Sample ID: MW-102B_24_08
Prep Type: Total/NA
Prep Batch: 431202

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Arsenic	<0.000530			<0.000530		mg/L				NC	20
Barium	0.138			0.1342		mg/L				3	20
Beryllium	<0.000330			<0.000330		mg/L				NC	20
Cadmium	<0.000100			<0.000100		mg/L				NC	20
Chromium	<0.00120			<0.00120		mg/L				NC	20
Cobalt	0.00106			0.001048		mg/L				0.9	20
Copper	<0.00180			<0.00180		mg/L				NC	20
Lead	<0.000260			<0.000260		mg/L				NC	20
Nickel	0.00258	J		0.002529	J	mg/L				2	20
Selenium	<0.00140			<0.00140		mg/L				NC	20
Silver	<0.000500			<0.000500		mg/L				NC	20
Thallium	<0.000570			<0.000570		mg/L				NC	20
Vanadium	<0.00110			<0.00110		mg/L				NC	20
Zinc	<0.00970			<0.00970		mg/L				NC	20
Tin	<0.00230			<0.00230		mg/L				NC	20

Lab Sample ID: 310-288673-11 DU
Matrix: Water
Analysis Batch: 431998

Client Sample ID: MW-102B_24_08
Prep Type: Total/NA
Prep Batch: 431202

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	<0.00100			<0.00100		mg/L				NC	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-431177/1
Matrix: Water
Analysis Batch: 431177

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/22/24 14:10	1

Lab Sample ID: LCS 310-431177/2
Matrix: Water
Analysis Batch: 431177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	90.00		mg/L		90	81 - 116

Lab Sample ID: 310-288593-D-2 DU
Matrix: Water
Analysis Batch: 431177

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	76.0		94.00		mg/L		21	35

Lab Sample ID: MB 310-431200/1
Matrix: Water
Analysis Batch: 431200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/22/24 15:56	1

Lab Sample ID: LCS 310-431200/2
Matrix: Water
Analysis Batch: 431200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	94.00		mg/L		94	81 - 116

Lab Sample ID: 310-288708-A-3 DU
Matrix: Water
Analysis Batch: 431200

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	260		230.0		mg/L		12	35

Lab Sample ID: 310-288741-A-1 DU
Matrix: Water
Analysis Batch: 431200

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	140		148.0		mg/L		6	35

Lab Sample ID: MB 310-431236/1
Matrix: Water
Analysis Batch: 431236

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288673-1

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: LCS 310-431236/2
Matrix: Water
Analysis Batch: 431236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	99.00		mg/L		99	81 - 116		

Lab Sample ID: 310-288652-B-2 DU
Matrix: Water
Analysis Batch: 431236

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	2800			2600		mg/L				7	35

GC/MS VOA

Analysis Batch: 431148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-1	AW-5_24_08	Total/NA	Water	8260D	
310-288673-2	AW-6_24_08	Total/NA	Water	8260D	
310-288673-3	MW-11_24_08	Total/NA	Water	8260D	
310-288673-4	MW-12_24_08	Total/NA	Water	8260D	
310-288673-5	MW-26_24_08	Total/NA	Water	8260D	
310-288673-6	MW-28_24_08	Total/NA	Water	8260D	
310-288673-7	MW-30_24_08	Total/NA	Water	8260D	
310-288673-8	MW-31_24_08	Total/NA	Water	8260D	
310-288673-9	MW-32_24_08	Total/NA	Water	8260D	
310-288673-10	MW-34_24_08	Total/NA	Water	8260D	
310-288673-11	MW-102B_24_08	Total/NA	Water	8260D	
310-288673-12	MW-105A_24_08	Total/NA	Water	8260D	
310-288673-13	MW-105B_24_08	Total/NA	Water	8260D	
310-288673-14	MW-106A_24_08	Total/NA	Water	8260D	
310-288673-15	FD-3_24_08	Total/NA	Water	8260D	
310-288673-16	FD-4_24_08	Total/NA	Water	8260D	
310-288673-17	FB-2_24_08	Total/NA	Water	8260D	
MB 310-431148/5	Method Blank	Total/NA	Water	8260D	
LCS 310-431148/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-431148/7	Lab Control Sample	Total/NA	Water	8260D	
310-288673-1 MS	AW-5_24_08	Total/NA	Water	8260D	
310-288673-1 MSD	AW-5_24_08	Total/NA	Water	8260D	

Analysis Batch: 431192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-18	TB-3_24_08	Total/NA	Water	8260D	
MB 310-431192/5	Method Blank	Total/NA	Water	8260D	
LCS 310-431192/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-431192/7	Lab Control Sample	Total/NA	Water	8260D	
310-288727-H-2 MS	Matrix Spike	Total/NA	Water	8260D	
310-288727-H-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 431245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-2	AW-6_24_08	Total/NA	Water	3510C	
310-288673-3	MW-11_24_08	Total/NA	Water	3510C	
310-288673-5	MW-26_24_08	Total/NA	Water	3510C	
310-288673-6	MW-28_24_08	Total/NA	Water	3510C	
310-288673-7	MW-30_24_08	Total/NA	Water	3510C	
310-288673-9	MW-32_24_08	Total/NA	Water	3510C	
310-288673-10	MW-34_24_08	Total/NA	Water	3510C	
310-288673-17	FB-2_24_08	Total/NA	Water	3510C	
MB 310-431245/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-431245/2-A	Lab Control Sample	Total/NA	Water	3510C	
310-288727-A-2-A MS	Matrix Spike	Total/NA	Water	3510C	
310-288727-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 431519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-2	AW-6_24_08	Total/NA	Water	8270E	431245
310-288673-3	MW-11_24_08	Total/NA	Water	8270E	431245
310-288673-5	MW-26_24_08	Total/NA	Water	8270E	431245
310-288673-6	MW-28_24_08	Total/NA	Water	8270E	431245
310-288673-7	MW-30_24_08	Total/NA	Water	8270E	431245
310-288673-9	MW-32_24_08	Total/NA	Water	8270E	431245
310-288673-10	MW-34_24_08	Total/NA	Water	8270E	431245
310-288673-17	FB-2_24_08	Total/NA	Water	8270E	431245
MB 310-431245/1-A	Method Blank	Total/NA	Water	8270E	431245
LCS 310-431245/2-A	Lab Control Sample	Total/NA	Water	8270E	431245
310-288727-A-2-A MS	Matrix Spike	Total/NA	Water	8270E	431245
310-288727-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270E	431245

GC Semi VOA

Prep Batch: 431439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-4	MW-12_24_08	Total/NA	Water	3510C	
310-288673-5	MW-26_24_08	Total/NA	Water	3510C	
310-288673-17	FB-2_24_08	Total/NA	Water	3510C	
MB 310-431439/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-431439/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-431439/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 431853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-4	MW-12_24_08	Total/NA	Water	8081B	431439
310-288673-5	MW-26_24_08	Total/NA	Water	8081B	431439
310-288673-17	FB-2_24_08	Total/NA	Water	8081B	431439
MB 310-431439/1-A	Method Blank	Total/NA	Water	8081B	431439
LCS 310-431439/4-A	Lab Control Sample	Total/NA	Water	8081B	431439
LCSD 310-431439/5-A	Lab Control Sample Dup	Total/NA	Water	8081B	431439

Leach Batch: 782648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-782648/1-F	Method Blank	Total/NA	Water	1311	
500-255347-C-1-I MS	Matrix Spike	TCLP	Water	1311	

Prep Batch: 783223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-1	AW-5_24_08	Total/NA	Water	8151A	
310-288673-2	AW-6_24_08	Total/NA	Water	8151A	
310-288673-9	MW-32_24_08	Total/NA	Water	8151A	
310-288673-17	FB-2_24_08	Total/NA	Water	8151A	
LB 500-782648/1-F	Method Blank	Total/NA	Water	8151A	782648
MB 500-783223/1-A	Method Blank	Total/NA	Water	8151A	
LCS 500-783223/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 500-783223/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
500-255347-C-1-I MS	Matrix Spike	TCLP	Water	8151A	782648

GC Semi VOA

Analysis Batch: 783707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-1	AW-5_24_08	Total/NA	Water	8151A	783223
310-288673-2	AW-6_24_08	Total/NA	Water	8151A	783223
310-288673-9	MW-32_24_08	Total/NA	Water	8151A	783223
310-288673-17	FB-2_24_08	Total/NA	Water	8151A	783223
LB 500-782648/1-F	Method Blank	Total/NA	Water	8151A	783223
MB 500-783223/1-A	Method Blank	Total/NA	Water	8151A	783223
LCS 500-783223/2-A	Lab Control Sample	Total/NA	Water	8151A	783223
LCSD 500-783223/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	783223
500-255347-C-1-I MS	Matrix Spike	TCLP	Water	8151A	783223

Metals

Prep Batch: 431202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-1	AW-5_24_08	Total/NA	Water	3005A	
310-288673-2	AW-6_24_08	Total/NA	Water	3005A	
310-288673-3	MW-11_24_08	Total/NA	Water	3005A	
310-288673-4	MW-12_24_08	Total/NA	Water	3005A	
310-288673-5	MW-26_24_08	Total/NA	Water	3005A	
310-288673-6	MW-28_24_08	Total/NA	Water	3005A	
310-288673-7	MW-30_24_08	Total/NA	Water	3005A	
310-288673-8	MW-31_24_08	Total/NA	Water	3005A	
310-288673-9	MW-32_24_08	Total/NA	Water	3005A	
310-288673-10	MW-34_24_08	Total/NA	Water	3005A	
310-288673-11	MW-102B_24_08	Total/NA	Water	3005A	
310-288673-12	MW-105A_24_08	Total/NA	Water	3005A	
310-288673-13	MW-105B_24_08	Total/NA	Water	3005A	
310-288673-14	MW-106A_24_08	Total/NA	Water	3005A	
310-288673-15	FD-3_24_08	Total/NA	Water	3005A	
310-288673-16	FD-4_24_08	Total/NA	Water	3005A	
310-288673-17	FB-2_24_08	Total/NA	Water	3005A	
MB 310-431202/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-431202/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-288673-1 MS	AW-5_24_08	Total/NA	Water	3005A	
310-288673-1 MSD	AW-5_24_08	Total/NA	Water	3005A	
310-288673-11 DU	MW-102B_24_08	Total/NA	Water	3005A	

Analysis Batch: 431590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-1	AW-5_24_08	Total/NA	Water	6020B	431202
310-288673-2	AW-6_24_08	Total/NA	Water	6020B	431202
310-288673-3	MW-11_24_08	Total/NA	Water	6020B	431202
310-288673-4	MW-12_24_08	Total/NA	Water	6020B	431202
310-288673-5	MW-26_24_08	Total/NA	Water	6020B	431202
310-288673-6	MW-28_24_08	Total/NA	Water	6020B	431202
310-288673-7	MW-30_24_08	Total/NA	Water	6020B	431202
310-288673-8	MW-31_24_08	Total/NA	Water	6020B	431202
310-288673-9	MW-32_24_08	Total/NA	Water	6020B	431202
310-288673-10	MW-34_24_08	Total/NA	Water	6020B	431202
310-288673-11	MW-102B_24_08	Total/NA	Water	6020B	431202
310-288673-12	MW-105A_24_08	Total/NA	Water	6020B	431202

Metals (Continued)

Analysis Batch: 431590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-13	MW-105B_24_08	Total/NA	Water	6020B	431202
310-288673-14	MW-106A_24_08	Total/NA	Water	6020B	431202
310-288673-15	FD-3_24_08	Total/NA	Water	6020B	431202
310-288673-16	FD-4_24_08	Total/NA	Water	6020B	431202
310-288673-17	FB-2_24_08	Total/NA	Water	6020B	431202
MB 310-431202/1-A	Method Blank	Total/NA	Water	6020B	431202
LCS 310-431202/2-A	Lab Control Sample	Total/NA	Water	6020B	431202
310-288673-1 MS	AW-5_24_08	Total/NA	Water	6020B	431202
310-288673-1 MSD	AW-5_24_08	Total/NA	Water	6020B	431202
310-288673-11 DU	MW-102B_24_08	Total/NA	Water	6020B	431202

Prep Batch: 431949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-17	FB-2_24_08	Total/NA	Water	7470A	

Analysis Batch: 431998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-1	AW-5_24_08	Total/NA	Water	6020B	431202
310-288673-2	AW-6_24_08	Total/NA	Water	6020B	431202
310-288673-3	MW-11_24_08	Total/NA	Water	6020B	431202
310-288673-4	MW-12_24_08	Total/NA	Water	6020B	431202
310-288673-5	MW-26_24_08	Total/NA	Water	6020B	431202
310-288673-6	MW-28_24_08	Total/NA	Water	6020B	431202
310-288673-7	MW-30_24_08	Total/NA	Water	6020B	431202
310-288673-8	MW-31_24_08	Total/NA	Water	6020B	431202
310-288673-9	MW-32_24_08	Total/NA	Water	6020B	431202
310-288673-10	MW-34_24_08	Total/NA	Water	6020B	431202
310-288673-11	MW-102B_24_08	Total/NA	Water	6020B	431202
310-288673-12	MW-105A_24_08	Total/NA	Water	6020B	431202
310-288673-13	MW-105B_24_08	Total/NA	Water	6020B	431202
310-288673-14	MW-106A_24_08	Total/NA	Water	6020B	431202
310-288673-15	FD-3_24_08	Total/NA	Water	6020B	431202
310-288673-16	FD-4_24_08	Total/NA	Water	6020B	431202
310-288673-17	FB-2_24_08	Total/NA	Water	6020B	431202
MB 310-431202/1-A	Method Blank	Total/NA	Water	6020B	431202
LCS 310-431202/2-A	Lab Control Sample	Total/NA	Water	6020B	431202
310-288673-1 MS	AW-5_24_08	Total/NA	Water	6020B	431202
310-288673-1 MSD	AW-5_24_08	Total/NA	Water	6020B	431202
310-288673-11 DU	MW-102B_24_08	Total/NA	Water	6020B	431202

Analysis Batch: 432225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-17	FB-2_24_08	Total/NA	Water	7470A	431949

General Chemistry

Analysis Batch: 431177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-12	MW-105A_24_08	Total/NA	Water	I-3765-85	
310-288673-13	MW-105B_24_08	Total/NA	Water	I-3765-85	
310-288673-14	MW-106A_24_08	Total/NA	Water	I-3765-85	

General Chemistry (Continued)

Analysis Batch: 431177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-15	FD-3_24_08	Total/NA	Water	I-3765-85	
310-288673-16	FD-4_24_08	Total/NA	Water	I-3765-85	
MB 310-431177/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-431177/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-288593-D-2 DU	Duplicate	Total/NA	Water	I-3765-85	

Analysis Batch: 431200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-1	AW-5_24_08	Total/NA	Water	I-3765-85	
310-288673-2	AW-6_24_08	Total/NA	Water	I-3765-85	
310-288673-3	MW-11_24_08	Total/NA	Water	I-3765-85	
310-288673-4	MW-12_24_08	Total/NA	Water	I-3765-85	
310-288673-5	MW-26_24_08	Total/NA	Water	I-3765-85	
310-288673-8	MW-31_24_08	Total/NA	Water	I-3765-85	
310-288673-10	MW-34_24_08	Total/NA	Water	I-3765-85	
310-288673-17	FB-2_24_08	Total/NA	Water	I-3765-85	
MB 310-431200/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-431200/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-288708-A-3 DU	Duplicate	Total/NA	Water	I-3765-85	
310-288741-A-1 DU	Duplicate	Total/NA	Water	I-3765-85	

Analysis Batch: 431236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288673-6	MW-28_24_08	Total/NA	Water	I-3765-85	
310-288673-7	MW-30_24_08	Total/NA	Water	I-3765-85	
310-288673-9	MW-32_24_08	Total/NA	Water	I-3765-85	
310-288673-11	MW-102B_24_08	Total/NA	Water	I-3765-85	
MB 310-431236/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-431236/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-288652-B-2 DU	Duplicate	Total/NA	Water	I-3765-85	

Client Sample ID: AW-5_24_08
Lab Sample ID: 310-288673-1

Date Collected: 08/19/24 14:25
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 14:10
Total/NA	Prep	8151A			783223	AC	EET CHI	08/26/24 10:27
Total/NA	Analysis	8151A		1	783707	H7CM	EET CHI	08/28/24 19:11
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 16:45
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 13:15
Total/NA	Analysis	I-3765-85		1	431200	WZC8	EET CF	08/22/24 15:56

Client Sample ID: AW-6_24_08
Lab Sample ID: 310-288673-2

Date Collected: 08/19/24 15:35
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 14:32
Total/NA	Prep	3510C			431245	L5FG	EET CF	08/23/24 09:21
Total/NA	Analysis	8270E		1	431519	L0FS	EET CF	08/27/24 17:04
Total/NA	Prep	8151A			783223	AC	EET CHI	08/26/24 10:27
Total/NA	Analysis	8151A		1	783707	H7CM	EET CHI	08/28/24 19:29
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:03
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 13:21
Total/NA	Analysis	I-3765-85		1	431200	WZC8	EET CF	08/22/24 15:56

Client Sample ID: MW-11_24_08
Lab Sample ID: 310-288673-3

Date Collected: 08/20/24 14:35
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 14:55
Total/NA	Prep	3510C			431245	L5FG	EET CF	08/23/24 09:21
Total/NA	Analysis	8270E		1	431519	L0FS	EET CF	08/27/24 17:29
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:06
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 13:23
Total/NA	Analysis	I-3765-85		1	431200	WZC8	EET CF	08/22/24 15:56

Client Sample ID: MW-12_24_08
Lab Sample ID: 310-288673-4

Date Collected: 08/20/24 13:55
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 15:18

Client Sample ID: MW-12_24_08
Lab Sample ID: 310-288673-4

Date Collected: 08/20/24 13:55
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			431439	L5FG	EET CF	08/26/24 14:09
Total/NA	Analysis	8081B		1	431853	BW2O	EET CF	08/30/24 12:34
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:24
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:28
Total/NA	Analysis	I-3765-85		1	431200	WZC8	EET CF	08/22/24 15:56

Client Sample ID: MW-26_24_08
Lab Sample ID: 310-288673-5

Date Collected: 08/19/24 12:30
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 15:40
Total/NA	Prep	3510C			431245	L5FG	EET CF	08/23/24 09:21
Total/NA	Analysis	8270E		1	431519	L0FS	EET CF	08/27/24 17:54
Total/NA	Prep	3510C			431439	L5FG	EET CF	08/26/24 14:09
Total/NA	Analysis	8081B		1	431853	BW2O	EET CF	08/30/24 12:50
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:28
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:30
Total/NA	Analysis	I-3765-85		1	431200	WZC8	EET CF	08/22/24 15:56

Client Sample ID: MW-28_24_08
Lab Sample ID: 310-288673-6

Date Collected: 08/19/24 14:20
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 16:03
Total/NA	Prep	3510C			431245	L5FG	EET CF	08/23/24 09:21
Total/NA	Analysis	8270E		1	431519	L0FS	EET CF	08/27/24 18:19
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:32
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:32
Total/NA	Analysis	I-3765-85		1	431236	WZC8	EET CF	08/23/24 08:35

Client Sample ID: MW-30_24_08
Lab Sample ID: 310-288673-7

Date Collected: 08/19/24 15:15
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 16:26

Client Sample ID: MW-30_24_08
Lab Sample ID: 310-288673-7

Date Collected: 08/19/24 15:15
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			431245	L5FG	EET CF	08/23/24 09:21
Total/NA	Analysis	8270E		1	431519	L0FS	EET CF	08/27/24 18:45
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:35
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:34
Total/NA	Analysis	I-3765-85		1	431236	WZC8	EET CF	08/23/24 08:35

Client Sample ID: MW-31_24_08
Lab Sample ID: 310-288673-8

Date Collected: 08/20/24 10:40
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 16:49
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:39
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:37
Total/NA	Analysis	I-3765-85		1	431200	WZC8	EET CF	08/22/24 15:56

Client Sample ID: MW-32_24_08
Lab Sample ID: 310-288673-9

Date Collected: 08/20/24 15:35
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 17:11
Total/NA	Prep	3510C			431245	L5FG	EET CF	08/23/24 09:21
Total/NA	Analysis	8270E		1	431519	L0FS	EET CF	08/27/24 19:10
Total/NA	Prep	8151A			783223	AC	EET CHI	08/26/24 10:27
Total/NA	Analysis	8151A		1	783707	H7CM	EET CHI	08/28/24 19:48
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:43
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:39
Total/NA	Analysis	I-3765-85		1	431236	WZC8	EET CF	08/23/24 08:35

Client Sample ID: MW-34_24_08
Lab Sample ID: 310-288673-10

Date Collected: 08/20/24 12:00
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 17:34
Total/NA	Prep	3510C			431245	L5FG	EET CF	08/23/24 09:21
Total/NA	Analysis	8270E		1	431519	L0FS	EET CF	08/27/24 19:35

Client Sample ID: MW-34_24_08
Lab Sample ID: 310-288673-10

Date Collected: 08/20/24 12:00
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:46
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:41
Total/NA	Analysis	I-3765-85		1	431200	WZC8	EET CF	08/22/24 15:56

Client Sample ID: MW-102B_24_08
Lab Sample ID: 310-288673-11

Date Collected: 08/20/24 15:40
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 17:57
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:50
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:43
Total/NA	Analysis	I-3765-85		1	431236	WZC8	EET CF	08/23/24 08:35

Client Sample ID: MW-105A_24_08
Lab Sample ID: 310-288673-12

Date Collected: 08/19/24 11:55
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 18:20
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 17:57
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:48
Total/NA	Analysis	I-3765-85		1	431177	WZC8	EET CF	08/22/24 14:10

Client Sample ID: MW-105B_24_08
Lab Sample ID: 310-288673-13

Date Collected: 08/19/24 12:15
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 18:43
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 18:15
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 14:59
Total/NA	Analysis	I-3765-85		1	431177	WZC8	EET CF	08/22/24 14:10

Client Sample ID: MW-106A_24_08
Lab Sample ID: 310-288673-14

Date Collected: 08/19/24 11:15
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 19:05
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 18:19
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 15:01
Total/NA	Analysis	I-3765-85		1	431177	WZC8	EET CF	08/22/24 14:10

Client Sample ID: FD-3_24_08
Lab Sample ID: 310-288673-15

Date Collected: 08/19/24 00:00
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 19:28
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 18:23
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 15:03
Total/NA	Analysis	I-3765-85		1	431177	WZC8	EET CF	08/22/24 14:10

Client Sample ID: FD-4_24_08
Lab Sample ID: 310-288673-16

Date Collected: 08/20/24 00:00
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 19:51
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 18:26
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 15:06
Total/NA	Analysis	I-3765-85		1	431177	WZC8	EET CF	08/22/24 14:10

Client Sample ID: FB-2_24_08
Lab Sample ID: 310-288673-17

Date Collected: 08/19/24 11:10
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431148	FE5V	EET CF	08/22/24 13:47
Total/NA	Prep	3510C			431245	L5FG	EET CF	08/23/24 09:21
Total/NA	Analysis	8270E		1	431519	L0FS	EET CF	08/27/24 20:00
Total/NA	Prep	3510C			431439	L5FG	EET CF	08/26/24 14:09
Total/NA	Analysis	8081B		1	431853	BW2O	EET CF	08/30/24 13:07
Total/NA	Prep	8151A			783223	AC	EET CHI	08/26/24 10:27
Total/NA	Analysis	8151A		1	783707	H7CM	EET CHI	08/28/24 20:06
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431590	NFT2	EET CF	08/27/24 18:30

Lab Chronicle

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Client Sample ID: FB-2_24_08
Lab Sample ID: 310-288673-17
Date Collected: 08/19/24 11:10
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			431202	QTZ5	EET CF	08/23/24 09:00
Total/NA	Analysis	6020B		1	431998	NFT2	EET CF	08/30/24 15:08
Total/NA	Prep	7470A			431949	DHM5	EET CF	09/03/24 14:45
Total/NA	Analysis	7470A		1	432225	DHM5	EET CF	09/04/24 12:07
Total/NA	Analysis	I-3765-85		1	431200	WZC8	EET CF	08/22/24 15:56

Client Sample ID: TB-3_24_08
Lab Sample ID: 310-288673-18
Date Collected: 08/20/24 00:00
Matrix: Water
Date Received: 08/21/24 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	431192	FE5V	EET CF	08/23/24 01:08

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

Method Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288673-1
Project/Site: CRLCSWA_1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8151A	Herbicides (GC)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

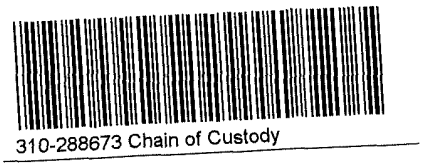
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

eurofins | Environment Testing America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: Foth I+E			
City/State: CITY		STATE	Project
Receipt Information			
Date/Time Received:	DATE 6.21.24	TIME 1455	Received By: CGC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☑ Yes	☐ No	*If yes:* Cooler # 1 of 5
Cooler Custody Seals Present?	☑ Yes	☐ No	*If yes:* Cooler custody seals intact? ☑ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☑ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P	Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.6	Corrected Temp (°C): 0.6

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE *If yes, contact PM before proceeding. If no, proceed with login*

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth I·E

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8·21·24 | TIME 1455 | Received By: CGC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 2 of 5

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.9 | Corrected Temp (°C): 0.9

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth I+E

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8.21.24 | TIME 1455 | Received By: CGC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 3 of 5

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☑ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.8 | Corrected Temp (°C): 1.8

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth I + E

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8.21.24 | TIME 1455 | Received By: CGC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 4 of 5

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☑ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.1 | Corrected Temp (°C): 1.1

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth I + E

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8.21.24 | TIME 1455 | Received By: CGC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 5 of _____

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☑ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

MW-11_24_08, MW-12_24_08,
MW-34_24_08, FD-4_24_08

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.9 | Corrected Temp (°C): 1.9

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

Chain of Custody Record

385377

eurofins | Environment Testing TestAmerica

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: GW Mining / H Dobbs	Site Contact: —	Date: 8/21/24	COC No —
Company Name Foth I+E	Tel/Email gwilming@foth.com	Lab Contact: Connor	Carrier: Eurofins	1 of 2 COCs
Address 411 6th Ave SE	Analysis Turnaround Time			Sampler: RGraun / T Merritt
City/State/Zip Cedar Rapids, IA 52401	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 319-365-9565	TAT if different from Below _____			Walk-in Client.
Fax. 319-365-9681	☐ 2 weeks			Lab Sampling
Project Name CRLCSWA #1	☐ 1 week			
Site CRLCSWA #1	☐ 2 days			Job / SDG No
P O # —	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)		Sample Specific Notes
AW-5_24_08	8/19/24	14:25	G	H_2O	7			SEE ATTACHED	
AW-6_24_08	8/19	15:35			9			PARAMETER SHEETS	
MW-11_24_08	8/20	14:35			7				
MW-12_24_08	8/20	13:55			7				
MW-26_24_08	8/19	12:30			9				
MW-28_24_08	8/19	14:20			7				
MW-30_24_08	8/19	15:15			7				
MW-31_24_08	8/20	10:40			5				
MW-32_24_08	8/20	15:35			9				
MW-34_24_08	8/20	12:00			7				
MW-102B_24_08	8/20	15:40			5				
MW-105A_24_08	8/19/24	11:55	↓	↓	5				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification.
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	O.A TECH	8/21/24 13:20			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			CGC	Eurofins	8-21-24 1455

9/5/2024

Chain of Custody Record

385388 eurofins Environment Testing TestAmerica

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: GWilming/HDubbs	Site Contact: —	Date: 8/21/24	COC No: —
Company Name: Feth I+E	Tel/Email: gwilming@feth.com	Lab Contact: CONNOR	Carrier: EUROFINS	2 of 2 COCs
Address: 411 6th Ave SE	Analysis Turnaround Time			Sampler: P GAUIN/T MERRITT
City/State/Zip: Cedar Rapids, IA 52401	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 319-365-9565	TAT if different from Below _____			Walk-in Client:
Fax: 319-365-9681	☐ 2 weeks			Lab Sampling
Project Name: CRLCSWA #1	☐ 1 week			
Site: CRLCSWA - #1	☐ 2 days			Job / SDG No
P O #: —	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)		Sample Specific Notes
MW-105B_24_08	8/19/24	12:15	G	H_2O	5			SEE ATTACHED	
MW-106A_24_08	8/19	11:15			5			PARAMETER SHEETS	
FD-3_24_08	8/19	—			5				
FD-4_24_08	8/20	—			5				
FB-2_24_08	8/19/24	11:10			11				
TB-3_24_08	—	—			3				

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	O.N.-TECH	8/21/24 13:45			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			CGC	Eurofins	8-21-24 1455

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 1 of 5 **COC Number:** 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O.		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: N	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
1	AW-1_24_08	AW-1	WG	G											X	X			X															
2	AW-2_24_08	AW-2	WG	G											X	X			X															
3	AW-3_24_08	AW-3	WG	G											X	X			X									X				X		
4	AW-4_24_08	AW-4	WG	G											X	X			X															
5	AW-5_24_08	AW-5	WG	G											X	X							X											
6	AW-6_24_08	AW-6	WG	G											X	X			X				X									X		
7	CRL-9_24_08	CRL-9	WG	G											X	X	X		X													X		
8	MW-11_24_08	MW-11	WG	G											X	X			X													X		
9	MW-12_24_08	MW-12	WG	G											X	X	X										X					X		
10	MW-13_24_08	MW-13	WG	G											X	X	X						X											
11	MW-14_24_08	MW-14	WG	G											X	X																		
12	MW-15_24_08	MW-15	WG	G											X	X			X															

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed

9/9/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 2 of 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P.O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
															N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←	
13	MW-16_24_08	MW-16	WG	G											X	X	X						X											
14	MW-17_24_08	MW-17	WG	G											X	X			X				X											
15	MW-18_24_08	MW-18	WG	G											X	X			X												X			
16	MW-19_24_08	MW-19	WG	G											X	X			X															
17	MW-20_24_08	MW-20	WG	G											X	X																X		
18	MW-21_24_08	MW-21	WG	G											X	X							X		X				X			X		
19	MW-22_24_08	MW-22	WG	G											X	X		X	X				X									X		
20	MW-23_24_08	MW-23	WG	G											X	X																X		
21	MW-24_24_08	MW-24	WG	G											X	X	X		X						X							X		
22	MW-25_24_08	MW-25	WG	G											X	X			X													X		
23	MW-26_24_08	MW-26	WG	G											X	X			X							X				X		X		
24	MW-28_24_08	MW-28	WG	G											X	X					X													

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER.

SIGNATURE of SAMPLER

DATE Signed.

9/3/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 3 **of** 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P.O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←	
25	MW-30_24_08	MW-30	WG	G											X	X			X													X		
26	MW-31_24_08	MW-31	WG	G											X	X																		
27	MW-32_24_08	MW-32	WG	G											X	X			X				X									X		
28	MW-33_24_08	MW-33	WG	G											X	X			X													X		
29	MW-34_24_08	MW-34	WG	G											X	X	X		X													X		
30	MW-35_24_08	MW-35	WG	G											X	X	X															X		
31	MW-36_24_08	MW-36	WG	G											X	X			X													X		
32	MW-37_24_08	MW-37	WG	G											X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X		
33	MW-38_24_08	MW-38	WG	G											X	X	X	X	X				X								X	X		
34	VP-3_24_08	VP-3	WG	G											X	X			X	X														
35	VP-4_24_08	VP-4	WG	G											X	X			X												X			
36	MW-101A_24_08	MW-101A	WG	G											X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X		

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER

DATE Signed:

9/5/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 4 **of** 5 **COC Number:** 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Total Arsenic	Filtered (Y/N)	REMARKS / Lab ID
															N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
37	MW-101B_24_08	MW-101B	WG	G											X	X	X	X	X				X								X	X			
38	MW-102B_24_08	MW-102B	WG	G											X	X																			
39	MW-104B_24_08	MW-104B	WG	G												X																		X	
40	MW-105A_24_08	MW-105A	WG	G											X	X																			
41	MW-105B_24_08	MW-105B	WG	G											X	X																			
42	MW-106A_24_08	MW-106A	WG	G											X	X																			
43	MW-107A_24_08	MW-107A	WG	G											X	X																			
44	MW-107B_24_08	MW-107B	WG	G											X	X																			
45	MW-108B_24_08	MW-108B	WG	G											X	X																			Do Not Analyze Cobalt
46	MW-109A_24_08	MW-109A	WG	G											X	X																			
47	MW-109B_24_08	MW-109B	WG	G											X	X																			
48	FD-1_24_08		WG	G											X	X																			

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed:

9/3/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 5 **of** 5

COC Number: 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	App. I VOCs Only	Filtered (Y/N)	REMARKS / Lab ID
															N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
49	FD-2_24_08		WG	G											X	X																			
50	FD-3_24_08		WG	G											X	X																			
51	FD-4_24_08		WG	G											X	X																			
52	FD-5_24_08		WG	G											X	X																			
53	FB-1_24_08	FB-1	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
54	FB-2_24_08	FB-2	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
55	FB-3_24_08	FB-3	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
56	TB-1_24_08	Trip Blank	WQ	G													X																X		
57	TB-2_24_08	Trip Blank	WQ	G													X																X		
58	TB-3_24_08	Trip Blank	WQ	G													X																X		
59	TB-4_24_08	Trip Blank	WQ	G													X																X		
60	TB-5_24_08	Trip Blank	WQ	G													X																X		

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER

DATE Signed:

9/9/2024

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Calhoun, Conner M	Carrier Tracking No(s):	COC No.: 310-75653 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Conner Calhoun@et eurofinsus com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State Program - Iowa		Job #: 310-288673-1
Address: 2417 Bond Street, ,	Due Date Requested: 9/4/2024	**Analysis Requested**		**Preservation Codes**
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			310-288673 COC
Project Name: CRLCSWA_1	Project #: 31009776			
Site:	SSOW#:			Other

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP (MOD) TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code						
AW-5_24_08 (310-288673-1)	8/19/24	14 25 Central	G	Water			X	2	
AW-6_24_08 (310-288673-2)	8/19/24	15 35 Central	G	Water			X	2	
MW-32_24_08 (310-288673-9)	8/20/24	15 35 Central	G	Water			X	2	
FB-2_24_08 (310-288673-17)	8/19/24	11 10 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing North Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ________ Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 8/22/24 1420	Company	Received by: Stephanie Hemond	Date/Time: 8/23/24 0910	Company: EETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks 0.8 → 0.7

Ver: 05/06/2024 9/5/2024

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-288673-1

Login Number: 288673

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Homolar, Dana J

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-288673-1

Login Number: 288673
List Number: 2
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 08/23/24 01:56 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gina Wilming
Foth Infrastructure & Environment, LLC
411 6th Avenue SE
Suite 400
Cedar Rapids, Iowa 52401

Generated 9/6/2024 4:19:32 PM

JOB DESCRIPTION

CRLCSWA_1

JOB NUMBER

310-288748-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
9/6/2024 4:19:32 PM

Authorized for release by
Conner Calhoun, Project Management Assistant I
Conner.Calhoun@et.eurofinsus.com
(319)277-2401

Table of Contents

Job ID: 310-288748-1 — Eurofins Cedar Falls

Job Narrative
310-288748-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/22/2024 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -0.4°C, 0.3°C and 1.1°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-288748-1	MW-21_24_08	Water	08/21/24 14:30	08/22/24 10:30
310-288748-2	MW-22_24_08	Water	08/21/24 13:50	08/22/24 10:30
310-288748-3	MW-33_24_08	Water	08/21/24 09:35	08/22/24 10:30
310-288748-4	MW-35_24_08	Water	08/21/24 11:05	08/22/24 10:30
310-288748-5	MW-36_24_08	Water	08/21/24 10:30	08/22/24 10:30
310-288748-6	MW-104B_24_08	Water	08/21/24 12:10	08/22/24 10:30
310-288748-7	MW-108B_24_08	Water	08/21/24 13:55	08/22/24 10:30
310-288748-8	FD-5_24_08	Water	08/21/24 00:00	08/22/24 10:30
310-288748-9	FB-3_24_08	Water	08/21/24 09:25	08/22/24 10:30
310-288748-10	TB-4_24_08	Water	08/21/24 00:00	08/22/24 10:30

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288748-1

Client Sample ID: MW-21_24_08 — Lab Sample ID: 310-288748-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.822	J	1.00	0.220	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	0.348	J	1.00	0.230	ug/L	1		8260D	Total/NA
Chlorobenzene	1.03		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.365	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.00116	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.146		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000181	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00137		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0275		0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.00166		0.00100	0.000570	mg/L	1		6020B	Total/NA
Zinc	0.0512		0.0200	0.00970	mg/L	1		6020B	Total/NA

Client Sample ID: MW-22_24_08 — Lab Sample ID: 310-288748-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.71		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.605	J	1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.36		1.00	0.230	ug/L	1		8260D	Total/NA
Acetone	4.11	J	10.0	3.10	ug/L	1		8260D	Total/NA
Chlorobenzene	3.01		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.757	J	1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.376	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	0.343	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0551		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.558		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00254		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0304		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00114	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	33.5		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-33_24_08 — Lab Sample ID: 310-288748-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.275	J	1.00	0.220	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.04		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	0.299	J	0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	6.92		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.232	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.0503		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.666		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00139		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00722		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	12.3		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-35_24_08 — Lab Sample ID: 310-288748-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00291		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.149		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000170	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00389		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0278		0.00500	0.00210	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-35_24_08 (Continued) — Lab Sample ID: 310-288748-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.00683		0.00500	0.00140	mg/L	1		6020B	Total/NA
Zinc	0.0264		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-36_24_08 — Lab Sample ID: 310-288748-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.43		1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	0.294	J	0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	6.98		1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.0692		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.594		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00130		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00749		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	23.5		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-104B_24_08 — Lab Sample ID: 310-288748-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	2.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-108B_24_08 — Lab Sample ID: 310-288748-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.189		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00690		0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: FD-5_24_08 — Lab Sample ID: 310-288748-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.84		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.675	J	1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.48		1.00	0.230	ug/L	1		8260D	Total/NA
Chlorobenzene	3.29		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.816	J	1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.405	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	0.292	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0555		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.561		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00254		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0310		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	34.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: FB-3_24_08 — Lab Sample ID: 310-288748-9

No Detections.

Client Sample ID: TB-4_24_08 — Lab Sample ID: 310-288748-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.31	J	10.0	3.10	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288748-1

Client Sample ID: MW-21_24_08
Date Collected: 08/21/24 14:30
Date Received: 08/22/24 10:30

Lab Sample ID: 310-288748-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 15:03	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 15:03	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 15:03	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 15:03	1
1,1-Dichloroethane	**0.822**	**J**	1.00	0.220	ug/L			08/23/24 15:03	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 15:03	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 15:03	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 15:03	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 15:03	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/23/24 15:03	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 15:03	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 15:03	1
1,4-Dichlorobenzene	**0.348**	**J**	1.00	0.230	ug/L			08/23/24 15:03	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 15:03	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 15:03	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 15:03	1
Acetone	<3.10		10.0	3.10	ug/L			08/23/24 15:03	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 15:03	1
Benzene	<0.220		0.500	0.220	ug/L			08/23/24 15:03	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 15:03	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 15:03	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 15:03	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 15:03	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 15:03	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 15:03	1
Chlorobenzene	**1.03**		1.00	0.400	ug/L			08/23/24 15:03	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 15:03	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 15:03	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 15:03	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 15:03	1
cis-1,2-Dichloroethene	**0.365**	**J**	1.00	0.210	ug/L			08/23/24 15:03	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 15:03	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 15:03	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 15:03	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 15:03	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 15:03	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 15:03	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 15:03	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 15:03	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/23/24 15:03	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 15:03	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 15:03	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 15:03	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 15:03	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 15:03	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/23/24 15:03	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*73 - 130*		*08/23/24 15:03*	*1*

Client Sample ID: MW-21_24_08
Lab Sample ID: 310-288748-1
Date Collected: 08/21/24 14:30
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/23/24 15:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/23/24 15:03*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.0420		0.0640	0.0420	ug/L		08/26/24 14:09	08/30/24 13:23	1
Dieldrin	<0.0260		0.0640	0.0260	ug/L		08/26/24 14:09	08/30/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*10 - 136*	*08/26/24 14:09*	*08/30/24 13:23*	*1*
Tetrachloro-m-xylene	*61*		*10 - 130*	*08/26/24 14:09*	*08/30/24 13:23*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0843		1.01	0.0843	ug/L		08/26/24 10:27	08/28/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*90*		*25 - 130*	*08/26/24 10:27*	*08/28/24 20:43*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/29/24 14:42	1
Arsenic	**0.00116**	**J**	0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 19:13	1
Barium	**0.146**		0.00200	0.000660	mg/L		08/23/24 09:00	08/29/24 14:42	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/28/24 19:13	1
Cadmium	**0.000181**	**J**	0.000200	0.000100	mg/L		08/23/24 09:00	08/28/24 19:13	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/28/24 19:13	1
Cobalt	**0.00137**		0.000500	0.000170	mg/L		08/23/24 09:00	08/28/24 19:13	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/28/24 19:13	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/28/24 19:13	1
Nickel	**0.0275**		0.00500	0.00210	mg/L		08/23/24 09:00	08/29/24 14:42	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/28/24 19:13	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/28/24 19:13	1
Thallium	**0.00166**		0.00100	0.000570	mg/L		08/23/24 09:00	08/28/24 19:13	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/29/24 14:42	1
Zinc	**0.0512**		0.0200	0.00970	mg/L		08/23/24 09:00	08/29/24 14:42	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/29/24 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/23/24 09:20	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288748-1

Client Sample ID: MW-22_24_08
Date Collected: 08/21/24 13:50
Date Received: 08/22/24 10:30

Lab Sample ID: 310-288748-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 15:26	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 15:26	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 15:26	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 15:26	1
1,1-Dichloroethane	**1.71**		1.00	0.220	ug/L			08/23/24 15:26	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 15:26	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 15:26	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 15:26	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 15:26	1
1,2-Dichlorobenzene	**0.605**	**J**	1.00	0.370	ug/L			08/23/24 15:26	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 15:26	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 15:26	1
1,4-Dichlorobenzene	**1.36**		1.00	0.230	ug/L			08/23/24 15:26	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 15:26	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 15:26	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 15:26	1
Acetone	**4.11**	**J**	10.0	3.10	ug/L			08/23/24 15:26	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 15:26	1
Benzene	<0.220		0.500	0.220	ug/L			08/23/24 15:26	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 15:26	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 15:26	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 15:26	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 15:26	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 15:26	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 15:26	1
Chlorobenzene	**3.01**		1.00	0.400	ug/L			08/23/24 15:26	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 15:26	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 15:26	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 15:26	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 15:26	1
cis-1,2-Dichloroethene	**0.757**	**J**	1.00	0.210	ug/L			08/23/24 15:26	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 15:26	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 15:26	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 15:26	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 15:26	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 15:26	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 15:26	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 15:26	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 15:26	1
trans-1,2-Dichloroethene	**0.376**	**J**	1.00	0.270	ug/L			08/23/24 15:26	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 15:26	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 15:26	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 15:26	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 15:26	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 15:26	1
Vinyl chloride	**0.343**	**J**	1.00	0.180	ug/L			08/23/24 15:26	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*08/23/24 15:26*	*1*

Client Sample ID: MW-22_24_08
Lab Sample ID: 310-288748-2
Date Collected: 08/21/24 13:50
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/23/24 15:26*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/23/24 15:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis(1-chloropropane)	<0.519		9.62	0.519	ug/L		08/23/24 09:21	08/27/24 20:51	1
Bis(2-ethylhexyl) phthalate	<5.29		9.62	5.29	ug/L		08/23/24 09:21	08/27/24 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*75*		*45 - 129*	*08/23/24 09:21*	*08/27/24 20:51*	*1*
2-Fluorobiphenyl (Surr)	*76*		*39 - 118*	*08/23/24 09:21*	*08/27/24 20:51*	*1*
Terphenyl-d14 (Surr)	*67*		*12 - 144*	*08/23/24 09:21*	*08/27/24 20:51*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP	<0.0898		1.08	0.0898	ug/L		08/26/24 10:27	08/28/24 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*90*		*25 - 130*	*08/26/24 10:27*	*08/28/24 21:02*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/29/24 14:46	1
Arsenic	**0.0551**		0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 19:15	1
Barium	**0.558**		0.00200	0.000660	mg/L		08/23/24 09:00	08/29/24 14:46	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/28/24 19:15	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/28/24 19:15	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/28/24 19:15	1
Cobalt	**0.00254**		0.000500	0.000170	mg/L		08/23/24 09:00	08/28/24 19:15	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/28/24 19:15	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/28/24 19:15	1
Nickel	**0.0304**		0.00500	0.00210	mg/L		08/23/24 09:00	08/29/24 14:46	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/28/24 19:15	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/28/24 19:15	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/28/24 19:15	1
Vanadium	**0.00114**	**J**	0.00500	0.00110	mg/L		08/23/24 09:00	08/29/24 14:46	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/29/24 14:46	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/29/24 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**33.5**		7.50	5.55	mg/L			08/23/24 09:20	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288748-1

Client Sample ID: MW-33_24_08
Date Collected: 08/21/24 09:35
Date Received: 08/22/24 10:30

Lab Sample ID: 310-288748-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 15:48	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 15:48	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 15:48	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 15:48	1
1,1-Dichloroethane	**0.275**	**J**	1.00	0.220	ug/L			08/23/24 15:48	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 15:48	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 15:48	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 15:48	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 15:48	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/23/24 15:48	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 15:48	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 15:48	1
1,4-Dichlorobenzene	**1.04**		1.00	0.230	ug/L			08/23/24 15:48	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 15:48	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 15:48	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 15:48	1
Acetone	<3.10		10.0	3.10	ug/L			08/23/24 15:48	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 15:48	1
Benzene	**0.299**	**J**	0.500	0.220	ug/L			08/23/24 15:48	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 15:48	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 15:48	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 15:48	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 15:48	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 15:48	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 15:48	1
Chlorobenzene	**6.92**		1.00	0.400	ug/L			08/23/24 15:48	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 15:48	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 15:48	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 15:48	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 15:48	1
cis-1,2-Dichloroethene	**0.232**	**J**	1.00	0.210	ug/L			08/23/24 15:48	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 15:48	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 15:48	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 15:48	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 15:48	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 15:48	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 15:48	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 15:48	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 15:48	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/23/24 15:48	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 15:48	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 15:48	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 15:48	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 15:48	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 15:48	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/23/24 15:48	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*08/23/24 15:48*	*1*

Client Sample ID: MW-33_24_08
Lab Sample ID: 310-288748-3
Date Collected: 08/21/24 09:35
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/23/24 15:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/23/24 15:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/23/24 09:21	08/27/24 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*45 - 129*	*08/23/24 09:21*	*08/27/24 21:16*	*1*
2-Fluorobiphenyl (Surr)	*87*		*39 - 118*	*08/23/24 09:21*	*08/27/24 21:16*	*1*
Terphenyl-d14 (Surr)	*79*		*12 - 144*	*08/23/24 09:21*	*08/27/24 21:16*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/29/24 14:49	1
Arsenic	**0.0503**		0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 19:17	1
Barium	**0.666**		0.00200	0.000660	mg/L		08/23/24 09:00	08/29/24 14:49	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/28/24 19:17	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/28/24 19:17	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/28/24 19:17	1
Cobalt	**0.00139**		0.000500	0.000170	mg/L		08/23/24 09:00	08/28/24 19:17	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/28/24 19:17	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/28/24 19:17	1
Nickel	**0.00722**		0.00500	0.00210	mg/L		08/23/24 09:00	08/29/24 14:49	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/28/24 19:17	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/28/24 19:17	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/28/24 19:17	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/29/24 14:49	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/29/24 14:49	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/29/24 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**12.3**		3.75	2.78	mg/L			08/23/24 09:20	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288748-1

Client Sample ID: MW-35_24_08
Date Collected: 08/21/24 11:05
Date Received: 08/22/24 10:30

Lab Sample ID: 310-288748-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 16:11	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 16:11	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 16:11	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 16:11	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/23/24 16:11	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 16:11	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 16:11	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 16:11	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 16:11	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/23/24 16:11	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 16:11	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 16:11	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/23/24 16:11	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/23/24 16:11	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 16:11	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 16:11	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 16:11	1
Acetone	<3.10		10.0	3.10	ug/L			08/23/24 16:11	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 16:11	1
Benzene	<0.220		0.500	0.220	ug/L			08/23/24 16:11	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 16:11	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 16:11	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 16:11	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 16:11	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 16:11	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 16:11	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/23/24 16:11	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 16:11	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 16:11	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 16:11	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 16:11	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/23/24 16:11	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 16:11	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 16:11	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 16:11	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 16:11	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 16:11	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 16:11	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 16:11	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 16:11	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/23/24 16:11	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 16:11	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 16:11	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 16:11	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 16:11	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 16:11	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/23/24 16:11	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 16:11	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-35_24_08

Lab Sample ID: 310-288748-4

Date Collected: 08/21/24 11:05

Matrix: Water

Date Received: 08/22/24 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*73 - 130*		*08/23/24 16:11*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/23/24 16:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/23/24 16:11*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/29/24 14:53	1
Arsenic	**0.00291**		0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 19:19	1
Barium	**0.149**		0.00200	0.000660	mg/L		08/23/24 09:00	08/29/24 14:53	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/28/24 19:19	1
Cadmium	**0.000170**	**J**	0.000200	0.000100	mg/L		08/23/24 09:00	08/28/24 19:19	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/28/24 19:19	1
Cobalt	**0.00389**		0.000500	0.000170	mg/L		08/23/24 09:00	08/28/24 19:19	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/28/24 19:19	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/28/24 19:19	1
Nickel	**0.0278**		0.00500	0.00210	mg/L		08/23/24 09:00	08/29/24 14:53	1
Selenium	**0.00683**		0.00500	0.00140	mg/L		08/23/24 09:00	08/28/24 19:19	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/28/24 19:19	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/28/24 19:19	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/29/24 14:53	1
Zinc	**0.0264**		0.0200	0.00970	mg/L		08/23/24 09:00	08/29/24 14:53	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/29/24 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.88**		1.88	1.39	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288748-1

Client Sample ID: MW-36_24_08
Date Collected: 08/21/24 10:30
Date Received: 08/22/24 10:30

Lab Sample ID: 310-288748-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 16:34	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 16:34	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 16:34	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 16:34	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/23/24 16:34	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 16:34	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 16:34	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 16:34	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 16:34	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/23/24 16:34	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 16:34	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 16:34	1
1,4-Dichlorobenzene	**1.43**		1.00	0.230	ug/L			08/23/24 16:34	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 16:34	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 16:34	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 16:34	1
Acetone	<3.10		10.0	3.10	ug/L			08/23/24 16:34	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 16:34	1
Benzene	**0.294**	**J**	0.500	0.220	ug/L			08/23/24 16:34	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 16:34	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 16:34	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 16:34	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 16:34	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 16:34	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 16:34	1
Chlorobenzene	**6.98**		1.00	0.400	ug/L			08/23/24 16:34	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 16:34	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 16:34	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 16:34	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 16:34	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/23/24 16:34	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 16:34	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 16:34	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 16:34	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 16:34	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 16:34	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 16:34	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 16:34	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 16:34	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/23/24 16:34	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 16:34	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 16:34	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 16:34	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 16:34	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 16:34	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/23/24 16:34	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*73 - 130*		*08/23/24 16:34*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-36_24_08
Lab Sample ID: 310-288748-5

Date Collected: 08/21/24 10:30
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/23/24 16:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/23/24 16:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/23/24 09:21	08/27/24 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*77*		*45 - 129*	*08/23/24 09:21*	*08/27/24 21:41*	*1*
2-Fluorobiphenyl (Surr)	*79*		*39 - 118*	*08/23/24 09:21*	*08/27/24 21:41*	*1*
Terphenyl-d14 (Surr)	*76*		*12 - 144*	*08/23/24 09:21*	*08/27/24 21:41*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/29/24 14:57	1
Arsenic	**0.0692**		0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 19:22	1
Barium	**0.594**		0.00200	0.000660	mg/L		08/23/24 09:00	08/29/24 14:57	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/28/24 19:22	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/28/24 19:22	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/28/24 19:22	1
Cobalt	**0.00130**		0.000500	0.000170	mg/L		08/23/24 09:00	08/28/24 19:22	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/28/24 19:22	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/28/24 19:22	1
Nickel	**0.00749**		0.00500	0.00210	mg/L		08/23/24 09:00	08/29/24 14:57	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/28/24 19:22	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/28/24 19:22	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/28/24 19:22	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/29/24 14:57	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/29/24 14:57	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/29/24 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**23.5**		7.50	5.55	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-104B_24_08
Lab Sample ID: 310-288748-6
Date Collected: 08/21/24 12:10
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 19:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.88		1.88	1.39	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288748-1

Client Sample ID: MW-108B_24_08
Date Collected: 08/21/24 13:55
Date Received: 08/22/24 10:30

Lab Sample ID: 310-288748-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 16:57	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 16:57	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 16:57	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 16:57	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/23/24 16:57	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 16:57	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 16:57	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 16:57	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 16:57	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/23/24 16:57	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 16:57	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 16:57	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/23/24 16:57	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 16:57	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 16:57	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 16:57	1
Acetone	<3.10		10.0	3.10	ug/L			08/23/24 16:57	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 16:57	1
Benzene	<0.220		0.500	0.220	ug/L			08/23/24 16:57	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 16:57	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 16:57	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 16:57	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 16:57	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 16:57	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 16:57	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/23/24 16:57	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 16:57	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 16:57	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 16:57	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 16:57	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/23/24 16:57	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 16:57	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 16:57	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 16:57	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 16:57	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 16:57	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 16:57	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 16:57	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 16:57	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/23/24 16:57	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 16:57	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 16:57	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 16:57	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 16:57	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 16:57	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/23/24 16:57	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*73 - 130*		*08/23/24 16:57*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Client Sample ID: MW-108B_24_08
Lab Sample ID: 310-288748-7
Date Collected: 08/21/24 13:55
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/23/24 16:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/23/24 16:57*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/29/24 15:08	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 19:37	1
Barium	**0.189**		0.00200	0.000660	mg/L		08/23/24 09:00	08/29/24 15:08	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/28/24 19:37	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/28/24 19:37	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/28/24 19:37	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/28/24 19:37	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/28/24 19:37	1
Nickel	**0.00690**		0.00500	0.00210	mg/L		08/23/24 09:00	08/29/24 15:08	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/28/24 19:37	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/28/24 19:37	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/28/24 19:37	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/29/24 15:08	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/29/24 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288748-1

Client Sample ID: FD-5_24_08
Date Collected: 08/21/24 00:00
Date Received: 08/22/24 10:30

Lab Sample ID: 310-288748-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 17:19	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 17:19	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 17:19	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 17:19	1
1,1-Dichloroethane	**1.84**		1.00	0.220	ug/L			08/23/24 17:19	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 17:19	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 17:19	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 17:19	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 17:19	1
1,2-Dichlorobenzene	**0.675**	**J**	1.00	0.370	ug/L			08/23/24 17:19	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 17:19	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 17:19	1
1,4-Dichlorobenzene	**1.48**		1.00	0.230	ug/L			08/23/24 17:19	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 17:19	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 17:19	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 17:19	1
Acetone	<3.10		10.0	3.10	ug/L			08/23/24 17:19	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 17:19	1
Benzene	<0.220		0.500	0.220	ug/L			08/23/24 17:19	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 17:19	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 17:19	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 17:19	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 17:19	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 17:19	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 17:19	1
Chlorobenzene	**3.29**		1.00	0.400	ug/L			08/23/24 17:19	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 17:19	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 17:19	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 17:19	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 17:19	1
cis-1,2-Dichloroethene	**0.816**	**J**	1.00	0.210	ug/L			08/23/24 17:19	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 17:19	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 17:19	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 17:19	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 17:19	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 17:19	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 17:19	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 17:19	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 17:19	1
trans-1,2-Dichloroethene	**0.405**	**J**	1.00	0.270	ug/L			08/23/24 17:19	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 17:19	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 17:19	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 17:19	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 17:19	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 17:19	1
Vinyl chloride	**0.292**	**J**	1.00	0.180	ug/L			08/23/24 17:19	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*73 - 130*		*08/23/24 17:19*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Client Sample ID: FD-5_24_08
Lab Sample ID: 310-288748-8
Date Collected: 08/21/24 00:00
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/23/24 17:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/23/24 17:19*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/29/24 15:26	1
Arsenic	**0.0555**		0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 19:39	1
Barium	**0.561**		0.00200	0.000660	mg/L		08/23/24 09:00	08/29/24 15:26	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/28/24 19:39	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/28/24 19:39	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/28/24 19:39	1
Cobalt	**0.00254**		0.000500	0.000170	mg/L		08/23/24 09:00	08/28/24 19:39	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/28/24 19:39	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/28/24 19:39	1
Nickel	**0.0310**		0.00500	0.00210	mg/L		08/23/24 09:00	08/29/24 15:26	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/28/24 19:39	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/28/24 19:39	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/28/24 19:39	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/29/24 15:26	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/29/24 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**34.0**		7.50	5.55	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Client Sample ID: FB-3_24_08
Lab Sample ID: 310-288748-9
Date Collected: 08/21/24 09:25
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 13:32	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 13:32	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 13:32	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 13:32	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/23/24 13:32	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 13:32	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 13:32	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 13:32	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 13:32	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/23/24 13:32	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 13:32	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 13:32	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/23/24 13:32	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/23/24 13:32	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 13:32	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 13:32	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 13:32	1
Acetone	<3.10		10.0	3.10	ug/L			08/23/24 13:32	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 13:32	1
Benzene	<0.220		0.500	0.220	ug/L			08/23/24 13:32	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 13:32	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 13:32	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 13:32	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 13:32	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 13:32	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 13:32	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/23/24 13:32	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 13:32	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 13:32	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 13:32	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 13:32	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/23/24 13:32	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 13:32	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 13:32	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 13:32	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 13:32	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 13:32	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 13:32	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 13:32	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 13:32	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/23/24 13:32	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 13:32	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 13:32	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 13:32	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 13:32	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 13:32	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/23/24 13:32	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 13:32	1

Client Sample ID: FB-3_24_08
Lab Sample ID: 310-288748-9
Date Collected: 08/21/24 09:25
Matrix: Water
Date Received: 08/22/24 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*73 - 130*		*08/23/24 13:32*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/23/24 13:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/23/24 13:32*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m & p-Cresol	<0.761		10.9	0.761	ug/L		08/23/24 09:21	08/27/24 22:06	1
2,2'-oxybis(1-chloropropane)	<0.587		10.9	0.587	ug/L		08/23/24 09:21	08/27/24 22:06	1
Bis(2-ethylhexyl) phthalate	<5.98		10.9	5.98	ug/L		08/23/24 09:21	08/27/24 22:06	1
Di-n-butyl phthalate	<6.09		10.9	6.09	ug/L		08/23/24 09:21	08/27/24 22:06	1
Phenol	<1.20		10.9	1.20	ug/L		08/23/24 09:21	08/27/24 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*56*		*25 - 110*	*08/23/24 09:21*	*08/27/24 22:06*	*1*
Phenol-d5 (Surr)	*59*		*21 - 110*	*08/23/24 09:21*	*08/27/24 22:06*	*1*
Nitrobenzene-d5 (Surr)	*74*		*45 - 129*	*08/23/24 09:21*	*08/27/24 22:06*	*1*
2-Fluorobiphenyl (Surr)	*76*		*39 - 118*	*08/23/24 09:21*	*08/27/24 22:06*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*27 - 136*	*08/23/24 09:21*	*08/27/24 22:06*	*1*
Terphenyl-d14 (Surr)	*90*		*12 - 144*	*08/23/24 09:21*	*08/27/24 22:06*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0302		0.0667	0.0302	ug/L		08/26/24 14:09	08/30/24 13:39	1
beta-BHC	<0.0385		0.0667	0.0385	ug/L		08/26/24 14:09	08/30/24 13:39	1
4,4'-DDT	<0.0438		0.0667	0.0438	ug/L		08/26/24 14:09	08/30/24 13:39	1
delta-BHC	<0.0281		0.0667	0.0281	ug/L		08/26/24 14:09	08/30/24 13:39	1
Dieldrin	<0.0271		0.0667	0.0271	ug/L		08/26/24 14:09	08/30/24 13:39	1
Heptachlor	<0.0344		0.0667	0.0344	ug/L		08/26/24 14:09	08/30/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*10 - 136*	*08/26/24 14:09*	*08/30/24 13:39*	*1*
Tetrachloro-m-xylene	*89*		*10 - 130*	*08/26/24 14:09*	*08/30/24 13:39*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.324		1.06	0.324	ug/L		08/26/24 10:27	08/28/24 21:20	1
2,4,5-TP	<0.0880		1.06	0.0880	ug/L		08/26/24 10:27	08/28/24 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*86*		*25 - 130*	*08/26/24 10:27*	*08/28/24 21:20*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/29/24 15:29	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 19:42	1
Barium	<0.000660		0.00200	0.000660	mg/L		08/23/24 09:00	08/29/24 15:29	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/28/24 19:42	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/28/24 19:42	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/28/24 19:42	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/23/24 09:00	08/28/24 19:42	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/28/24 19:42	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/28/24 19:42	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Client Sample ID: FB-3_24_08
Lab Sample ID: 310-288748-9
Date Collected: 08/21/24 09:25
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00210		0.00500	0.00210	mg/L		08/23/24 09:00	08/29/24 15:29	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/28/24 19:42	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/28/24 19:42	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/28/24 19:42	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/29/24 15:29	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/29/24 15:29	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/29/24 15:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		09/03/24 14:45	09/04/24 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.39		1.88	1.39	mg/L			08/23/24 08:35	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Client Sample ID: TB-4_24_08
Lab Sample ID: 310-288748-10
Date Collected: 08/21/24 00:00
Matrix: Water
Date Received: 08/22/24 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 13:55	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 13:55	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 13:55	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 13:55	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/23/24 13:55	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 13:55	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 13:55	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 13:55	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 13:55	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/23/24 13:55	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 13:55	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 13:55	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/23/24 13:55	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/23/24 13:55	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 13:55	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 13:55	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 13:55	1
Acetone	**3.31**	**J**	10.0	3.10	ug/L			08/23/24 13:55	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 13:55	1
Benzene	<0.220		0.500	0.220	ug/L			08/23/24 13:55	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 13:55	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 13:55	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 13:55	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 13:55	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 13:55	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 13:55	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/23/24 13:55	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 13:55	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 13:55	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 13:55	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 13:55	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/23/24 13:55	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 13:55	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 13:55	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 13:55	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 13:55	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 13:55	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 13:55	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 13:55	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 13:55	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/23/24 13:55	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 13:55	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 13:55	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 13:55	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 13:55	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 13:55	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/23/24 13:55	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 13:55	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Client Sample ID: TB-4_24_08
Lab Sample ID: 310-288748-10
Date Collected: 08/21/24 00:00
Matrix: Water
Date Received: 08/22/24 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		73 - 130		08/23/24 13:55	1
Toluene-d8 (Surr)	93		80 - 120		08/23/24 13:55	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/23/24 13:55	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA_1

Job ID: 310-288748-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-288707-B-1 MS	Matrix Spike	101	96	99
310-288707-B-1 MSD	Matrix Spike Duplicate	104	96	100
310-288748-1	MW-21_24_08	116	94	102
310-288748-2	MW-22_24_08	118	95	101
310-288748-3	MW-33_24_08	118	94	100
310-288748-4	MW-35_24_08	117	93	101
310-288748-5	MW-36_24_08	116	94	101
310-288748-7	MW-108B_24_08	120	93	101
310-288748-8	FD-5_24_08	119	94	100
310-288748-9	FB-3_24_08	120	94	102
310-288748-10	TB-4_24_08	116	93	101
LCS 310-431272/6	Lab Control Sample	99	97	99
LCS 310-431272/7	Lab Control Sample	118	93	100
MB 310-431272/5	Method Blank	116	94	100

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(25-110)	(21-110)	(45-129)	(39-118)	(27-136)	(12-144)
310-288727-A-2-A MS	Matrix Spike	64	61	85	94	82	102
310-288727-A-2-B MSD	Matrix Spike Duplicate	61	59	80	81	78	92
310-288748-2	MW-22_24_08			75	76		67
310-288748-3	MW-33_24_08			84	87		79
310-288748-5	MW-36_24_08			77	79		76
310-288748-9	FB-3_24_08	56	59	74	76	72	90
LCS 310-431245/2-A	Lab Control Sample	66	64	91	86	85	104
MB 310-431245/1-A	Method Blank	72	73	106	100	97	113

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-288748-1	MW-21_24_08	90	61
310-288748-9	FB-3_24_08	53	89

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (10-130)							
LCS 310-431439/4-A	Lab Control Sample	78	91							
LCSD 310-431439/5-A	Lab Control Sample Dup	85	71							
MB 310-431439/1-A	Method Blank	87	74							

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCPAA1 (25-130)								
310-288748-1	MW-21_24_08	90								
310-288748-2	MW-22_24_08	90								
310-288748-9	FB-3_24_08	86								
LB 500-782648/1-F	Method Blank	80								
LCS 500-783223/2-A	Lab Control Sample	93								
LCSD 500-783223/3-A	Lab Control Sample Dup	88								
MB 500-783223/1-A	Method Blank	75								

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCPAA1 (25-130)								
500-255347-C-1-I MS	Matrix Spike	96								

Surrogate Legend

DCPAA = DCAA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-431272/5
Matrix: Water
Analysis Batch: 431272

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			08/23/24 12:24	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			08/23/24 12:24	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			08/23/24 12:24	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			08/23/24 12:24	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			08/23/24 12:24	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			08/23/24 12:24	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			08/23/24 12:24	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			08/23/24 12:24	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			08/23/24 12:24	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			08/23/24 12:24	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			08/23/24 12:24	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			08/23/24 12:24	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			08/23/24 12:24	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			08/23/24 12:24	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			08/23/24 12:24	1
2-Hexanone	<2.00		10.0	2.00	ug/L			08/23/24 12:24	1
4-Methyl-2-pentanone (MIBK)	<2.10		10.0	2.10	ug/L			08/23/24 12:24	1
Acetone	<3.10		10.0	3.10	ug/L			08/23/24 12:24	1
Acrylonitrile	<2.20		5.00	2.20	ug/L			08/23/24 12:24	1
Benzene	<0.220		0.500	0.220	ug/L			08/23/24 12:24	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			08/23/24 12:24	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			08/23/24 12:24	1
Bromoform	<0.780		5.00	0.780	ug/L			08/23/24 12:24	1
Bromomethane	<1.10		4.00	1.10	ug/L			08/23/24 12:24	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			08/23/24 12:24	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			08/23/24 12:24	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			08/23/24 12:24	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			08/23/24 12:24	1
Chloroethane	<0.790		4.00	0.790	ug/L			08/23/24 12:24	1
Chloroform	<1.30		3.00	1.30	ug/L			08/23/24 12:24	1
Chloromethane	<0.610		3.00	0.610	ug/L			08/23/24 12:24	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			08/23/24 12:24	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			08/23/24 12:24	1
Dibromomethane	<0.330		1.00	0.330	ug/L			08/23/24 12:24	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			08/23/24 12:24	1
Iodomethane	<7.00		10.0	7.00	ug/L			08/23/24 12:24	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			08/23/24 12:24	1
Styrene	<0.370		1.00	0.370	ug/L			08/23/24 12:24	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			08/23/24 12:24	1
Toluene	<0.430		1.00	0.430	ug/L			08/23/24 12:24	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			08/23/24 12:24	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			08/23/24 12:24	1
trans-1,4-Dichloro-2-butene	<1.10		10.0	1.10	ug/L			08/23/24 12:24	1
Trichloroethene	<0.430		1.00	0.430	ug/L			08/23/24 12:24	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			08/23/24 12:24	1
Vinyl acetate	<2.50		10.0	2.50	ug/L			08/23/24 12:24	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			08/23/24 12:24	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			08/23/24 12:24	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-431272/5
Matrix: Water
Analysis Batch: 431272

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*116*		*73 - 130*		*08/23/24 12:24*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/23/24 12:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/23/24 12:24*	*1*

Lab Sample ID: LCS 310-431272/6
Matrix: Water
Analysis Batch: 431272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.36		ug/L		97	71 - 120
1,1,1-Trichloroethane	20.0	21.16		ug/L		106	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.19		ug/L		96	68 - 124
1,1,2-Trichloroethane	20.0	19.18		ug/L		96	73 - 123
1,1-Dichloroethane	20.0	22.16		ug/L		111	70 - 127
1,1-Dichloroethene	20.0	23.76		ug/L		119	63 - 132
1,2,3-Trichloropropane	20.0	19.13		ug/L		96	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	18.59		ug/L		93	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.69		ug/L		98	75 - 125
1,2-Dichlorobenzene	20.0	19.95		ug/L		100	74 - 120
1,2-Dichloroethane	20.0	18.20		ug/L		91	71 - 125
1,2-Dichloropropane	20.0	22.80		ug/L		114	73 - 124
1,4-Dichlorobenzene	20.0	19.92		ug/L		100	72 - 120
2-Butanone (MEK)	40.0	38.43		ug/L		96	50 - 150
2-Hexanone	40.0	38.72		ug/L		97	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	38.42		ug/L		96	60 - 139
Acetone	40.0	35.73		ug/L		89	50 - 150
Acrylonitrile	200	222.0		ug/L		111	50 - 150
Benzene	20.0	22.97		ug/L		115	72 - 124
Bromochloromethane	20.0	22.88		ug/L		114	73 - 130
Bromodichloromethane	20.0	20.29		ug/L		101	74 - 122
Bromoform	20.0	19.04		ug/L		95	61 - 122
Carbon disulfide	20.0	23.58		ug/L		118	59 - 135
Carbon tetrachloride	20.0	22.21		ug/L		111	67 - 132
Chlorobenzene	20.0	20.24		ug/L		101	76 - 120
Chlorodibromomethane	20.0	18.90		ug/L		94	71 - 121
Chloroform	20.0	20.16		ug/L		101	72 - 125
cis-1,2-Dichloroethene	20.0	22.29		ug/L		111	74 - 123
cis-1,3-Dichloropropene	20.0	20.63		ug/L		103	71 - 125
Dibromomethane	20.0	20.14		ug/L		101	74 - 125
Ethylbenzene	20.0	20.90		ug/L		104	74 - 122
Iodomethane	20.0	19.19		ug/L		96	10 - 150
Methylene Chloride	20.0	23.81		ug/L		119	50 - 150
Styrene	20.0	21.32		ug/L		107	74 - 121
Tetrachloroethene	20.0	22.49		ug/L		112	71 - 130
Toluene	20.0	20.94		ug/L		105	74 - 123
trans-1,2-Dichloroethene	20.0	22.46		ug/L		112	70 - 126
trans-1,3-Dichloropropene	20.0	21.17		ug/L		106	69 - 123
trans-1,4-Dichloro-2-butene	20.0	17.99		ug/L		90	50 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-431272/6
Matrix: Water
Analysis Batch: 431272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	20.0	23.31		ug/L		117	72 - 126
Vinyl acetate	40.0	41.11		ug/L		103	50 - 150
Xylenes, Total	40.0	42.45		ug/L		106	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: LCS 310-431272/7
Matrix: Water
Analysis Batch: 431272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.96		ug/L		75	23 - 150
Chloroethane	20.0	19.64		ug/L		98	54 - 136
Chloromethane	20.0	20.36		ug/L		102	38 - 150
Trichlorofluoromethane	20.0	21.94		ug/L		110	54 - 149
Vinyl chloride	20.0	20.72		ug/L		104	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*118*		*73 - 130*
Toluene-d8 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: 310-288707-B-1 MS
Matrix: Water
Analysis Batch: 431272

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.380		20.0	16.78		ug/L		84	55 - 130
1,1,1-Trichloroethane	<0.190		20.0	18.11		ug/L		91	52 - 130
1,1,2,2-Tetrachloroethane	<0.470		20.0	17.29		ug/L		86	54 - 130
1,1,2-Trichloroethane	<0.450		20.0	17.29		ug/L		86	58 - 130
1,1-Dichloroethane	<0.220		20.0	20.11		ug/L		101	49 - 130
1,1-Dichloroethene	<0.560		20.0	19.88		ug/L		99	37 - 132
1,2,3-Trichloropropane	<0.590		20.0	16.88		ug/L		84	49 - 130
1,2-Dibromo-3-Chloropropane	<1.20		20.0	16.41		ug/L		82	38 - 150
1,2-Dibromoethane (EDB)	<0.340		20.0	17.75		ug/L		89	60 - 130
1,2-Dichlorobenzene	<0.370		20.0	17.41		ug/L		87	59 - 130
1,2-Dichloroethane	<0.390		20.0	17.04		ug/L		85	51 - 130
1,2-Dichloropropane	<0.270		20.0	21.09		ug/L		105	57 - 130
1,4-Dichlorobenzene	<0.230		20.0	17.44		ug/L		87	57 - 130
2-Butanone (MEK)	<2.10		40.0	36.75		ug/L		92	38 - 150
2-Hexanone	<2.00		40.0	34.04		ug/L		85	46 - 140
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	35.27		ug/L		88	47 - 139
Acetone	<3.10		40.0	36.85		ug/L		92	31 - 150
Acrylonitrile	<2.20		200	210.7		ug/L		105	40 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288707-B-1 MS
Matrix: Water
Analysis Batch: 431272

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.220		20.0	20.47		ug/L		102	46 - 130
Bromochloromethane	<0.540		20.0	21.27		ug/L		106	57 - 130
Bromodichloromethane	<0.390		20.0	18.27		ug/L		91	57 - 130
Bromoform	<0.780		20.0	16.33		ug/L		82	44 - 130
Carbon disulfide	<0.450		20.0	20.95		ug/L		105	38 - 135
Carbon tetrachloride	<0.650		20.0	18.57		ug/L		93	45 - 132
Chlorobenzene	<0.400		20.0	17.70		ug/L		88	59 - 130
Chlorodibromomethane	<0.750		20.0	16.73		ug/L		84	54 - 130
Chloroform	<1.30		20.0	18.40		ug/L		92	51 - 130
cis-1,2-Dichloroethene	<0.210		20.0	19.80		ug/L		99	45 - 130
cis-1,3-Dichloropropene	<0.250		20.0	17.75		ug/L		89	53 - 130
Dibromomethane	<0.330		20.0	18.61		ug/L		93	59 - 130
Ethylbenzene	<0.310		20.0	18.06		ug/L		90	45 - 130
Iodomethane	<7.00		20.0	16.24		ug/L		81	10 - 150
Methylene Chloride	<1.70		20.0	21.61		ug/L		108	37 - 150
Styrene	<0.370		20.0	18.72		ug/L		94	47 - 130
Tetrachloroethene	<0.480		20.0	18.65		ug/L		93	47 - 130
Toluene	<0.430		20.0	18.05		ug/L		90	51 - 130
trans-1,2-Dichloroethene	<0.270		20.0	19.90		ug/L		99	48 - 130
trans-1,3-Dichloropropene	<0.560		20.0	18.84		ug/L		94	50 - 130
trans-1,4-Dichloro-2-butene	<1.10		20.0	14.90		ug/L		75	26 - 150
Trichloroethene	<0.430		20.0	20.33		ug/L		102	51 - 130
Vinyl acetate	<2.50		40.0	37.59		ug/L		94	29 - 150
Xylenes, Total	<0.400		40.0	37.00		ug/L		93	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: 310-288707-B-1 MSD
Matrix: Water
Analysis Batch: 431272

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		20.0	17.39		ug/L		87	55 - 130	4	20
1,1,1-Trichloroethane	<0.190		20.0	18.68		ug/L		93	52 - 130	3	20
1,1,2,2-Tetrachloroethane	<0.470		20.0	18.27		ug/L		91	54 - 130	6	20
1,1,2-Trichloroethane	<0.450		20.0	17.41		ug/L		87	58 - 130	1	20
1,1-Dichloroethane	<0.220		20.0	20.81		ug/L		104	49 - 130	3	20
1,1-Dichloroethene	<0.560		20.0	20.33		ug/L		102	37 - 132	2	26
1,2,3-Trichloropropane	<0.590		20.0	17.51		ug/L		88	49 - 130	4	26
1,2-Dibromo-3-Chloropropane	<1.20		20.0	17.82		ug/L		89	38 - 150	8	20
1,2-Dibromoethane (EDB)	<0.340		20.0	18.24		ug/L		91	60 - 130	3	20
1,2-Dichlorobenzene	<0.370		20.0	18.74		ug/L		94	59 - 130	7	20
1,2-Dichloroethane	<0.390		20.0	17.99		ug/L		90	51 - 130	5	20
1,2-Dichloropropane	<0.270		20.0	21.71		ug/L		109	57 - 130	3	20
1,4-Dichlorobenzene	<0.230		20.0	18.36		ug/L		92	57 - 130	5	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-288707-B-1 MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431272

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	<2.10		40.0	38.26		ug/L		96	38 - 150	4	20
2-Hexanone	<2.00		40.0	35.74		ug/L		89	46 - 140	5	20
4-Methyl-2-pentanone (MIBK)	<2.10		40.0	36.94		ug/L		92	47 - 139	5	20
Acetone	<3.10		40.0	39.70		ug/L		99	31 - 150	7	29
Acrylonitrile	<2.20		200	222.6		ug/L		111	40 - 150	5	20
Benzene	<0.220		20.0	21.27		ug/L		106	46 - 130	4	20
Bromochloromethane	<0.540		20.0	22.41		ug/L		112	57 - 130	5	20
Bromodichloromethane	<0.390		20.0	19.13		ug/L		96	57 - 130	5	20
Bromoform	<0.780		20.0	17.54		ug/L		88	44 - 130	7	20
Carbon disulfide	<0.450		20.0	20.45		ug/L		102	38 - 135	2	30
Carbon tetrachloride	<0.650		20.0	19.01		ug/L		95	45 - 132	2	20
Chlorobenzene	<0.400		20.0	18.51		ug/L		93	59 - 130	4	20
Chlorodibromomethane	<0.750		20.0	17.54		ug/L		88	54 - 130	5	20
Chloroform	<1.30		20.0	19.15		ug/L		96	51 - 130	4	20
cis-1,2-Dichloroethene	<0.210		20.0	20.92		ug/L		105	45 - 130	6	20
cis-1,3-Dichloropropene	<0.250		20.0	18.60		ug/L		93	53 - 130	5	20
Dibromomethane	<0.330		20.0	19.81		ug/L		99	59 - 130	6	20
Ethylbenzene	<0.310		20.0	18.79		ug/L		94	45 - 130	4	20
Iodomethane	<7.00		20.0	19.31		ug/L		97	10 - 150	17	35
Methylene Chloride	<1.70		20.0	22.62		ug/L		113	37 - 150	5	24
Styrene	<0.370		20.0	19.51		ug/L		98	47 - 130	4	20
Tetrachloroethene	<0.480		20.0	19.24		ug/L		96	47 - 130	3	20
Toluene	<0.430		20.0	18.87		ug/L		94	51 - 130	4	20
trans-1,2-Dichloroethene	<0.270		20.0	20.41		ug/L		102	48 - 130	3	22
trans-1,3-Dichloropropene	<0.560		20.0	19.67		ug/L		98	50 - 130	4	20
trans-1,4-Dichloro-2-butene	<1.10		20.0	15.90		ug/L		80	26 - 150	6	23
Trichloroethene	<0.430		20.0	21.25		ug/L		106	51 - 130	4	20
Vinyl acetate	<2.50		40.0	39.26		ug/L		98	29 - 150	4	23
Xylenes, Total	<0.400		40.0	38.76		ug/L		97	43 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*73 - 130*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-431245/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431519
Prep Batch: 431245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m & p-Cresol	<0.700		10.0	0.700	ug/L		08/23/24 09:21	08/27/24 12:50	1
2,2'-oxybis(1-chloropropane)	<0.540		10.0	0.540	ug/L		08/23/24 09:21	08/27/24 12:50	1
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		08/23/24 09:21	08/27/24 12:50	1
Di-n-butyl phthalate	<5.60		10.0	5.60	ug/L		08/23/24 09:21	08/27/24 12:50	1
Phenol	<1.10		10.0	1.10	ug/L		08/23/24 09:21	08/27/24 12:50	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-431245/1-A
Matrix: Water
Analysis Batch: 431519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431245

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	72		25 - 110	08/23/24 09:21	08/27/24 12:50	1
Phenol-d5 (Surr)	73		21 - 110	08/23/24 09:21	08/27/24 12:50	1
Nitrobenzene-d5 (Surr)	106		45 - 129	08/23/24 09:21	08/27/24 12:50	1
2-Fluorobiphenyl (Surr)	100		39 - 118	08/23/24 09:21	08/27/24 12:50	1
2,4,6-Tribromophenol (Surr)	97		27 - 136	08/23/24 09:21	08/27/24 12:50	1
Terphenyl-d14 (Surr)	113		12 - 144	08/23/24 09:21	08/27/24 12:50	1

Lab Sample ID: LCS 310-431245/2-A
Matrix: Water
Analysis Batch: 431519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m & p-Cresol	100	94.28		ug/L		94	46 - 117
2,2'-oxybis(1-chloropropane)	100	91.76		ug/L		92	34 - 123
Bis(2-ethylhexyl) phthalate	100	100.3		ug/L		100	43 - 143
Di-n-butyl phthalate	100	109.1		ug/L		109	50 - 133
Phenol	100	64.01		ug/L		64	29 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	66		25 - 110
Phenol-d5 (Surr)	64		21 - 110
Nitrobenzene-d5 (Surr)	91		45 - 129
2-Fluorobiphenyl (Surr)	86		39 - 118
2,4,6-Tribromophenol (Surr)	85		27 - 136
Terphenyl-d14 (Surr)	104		12 - 144

Lab Sample ID: 310-288727-A-2-A MS
Matrix: Water
Analysis Batch: 431519

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 431245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m & p-Cresol	<0.700		96.2	81.51		ug/L		85	46 - 117
2,2'-oxybis(1-chloropropane)	<0.540		96.2	82.45		ug/L		86	34 - 123
Bis(2-ethylhexyl) phthalate	<5.50		96.2	92.56		ug/L		96	43 - 143
Di-n-butyl phthalate	<5.60		96.2	96.11		ug/L		100	50 - 133
Phenol	<1.10		96.2	55.50		ug/L		58	29 - 110

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol (Surr)	64		25 - 110
Phenol-d5 (Surr)	61		21 - 110
Nitrobenzene-d5 (Surr)	85		45 - 129
2-Fluorobiphenyl (Surr)	94		39 - 118
2,4,6-Tribromophenol (Surr)	82		27 - 136
Terphenyl-d14 (Surr)	102		12 - 144

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 310-288727-A-2-B MSD
Matrix: Water
Analysis Batch: 431519

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 431245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m & p-Cresol	<0.700		100	76.03		ug/L		76	46 - 117	7	35
2,2'-oxybis(1-chloropropane)	<0.540		100	71.46		ug/L		71	34 - 123	14	35
Bis(2-ethylhexyl) phthalate	<5.50		100	79.66		ug/L		80	43 - 143	15	35
Di-n-butyl phthalate	<5.60		100	84.30		ug/L		84	50 - 133	13	35
Phenol	<1.10		100	51.12		ug/L		51	29 - 110	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*61*		*25 - 110*
Phenol-d5 (Surr)	*59*		*21 - 110*
Nitrobenzene-d5 (Surr)	*80*		*45 - 129*
2-Fluorobiphenyl (Surr)	*81*		*39 - 118*
2,4,6-Tribromophenol (Surr)	*78*		*27 - 136*
Terphenyl-d14 (Surr)	*92*		*12 - 144*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-431439/1-A
Matrix: Water
Analysis Batch: 431853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.0290		0.0640	0.0290	ug/L		08/26/24 14:09	08/30/24 10:24	1
beta-BHC	<0.0370		0.0640	0.0370	ug/L		08/26/24 14:09	08/30/24 10:24	1
4,4'-DDT	<0.0420		0.0640	0.0420	ug/L		08/26/24 14:09	08/30/24 10:24	1
delta-BHC	<0.0270		0.0640	0.0270	ug/L		08/26/24 14:09	08/30/24 10:24	1
Dieldrin	<0.0260		0.0640	0.0260	ug/L		08/26/24 14:09	08/30/24 10:24	1
Heptachlor	<0.0330		0.0640	0.0330	ug/L		08/26/24 14:09	08/30/24 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*10 - 136*	*08/26/24 14:09*	*08/30/24 10:24*	*1*
Tetrachloro-m-xylene	*74*		*10 - 130*	*08/26/24 14:09*	*08/30/24 10:24*	*1*

Lab Sample ID: LCS 310-431439/4-A
Matrix: Water
Analysis Batch: 431853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	1.00	0.8515		ug/L		85	23 - 150
Dieldrin	1.00	0.9707		ug/L		97	39 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*10 - 136*
Tetrachloro-m-xylene	*91*		*10 - 130*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 310-431439/5-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431853
Prep Batch: 431439

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDT			1.00	0.8328		ug/L		83	23 - 150	2	35
Dieldrin			1.00	0.9226		ug/L		92	39 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*10 - 136*
Tetrachloro-m-xylene	*71*		*10 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: LB 500-782648/1-F
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 783707
Prep Batch: 783223

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<30.7		100	30.7	ug/L		08/26/24 10:27	08/28/24 18:16	1
2,4,5-TP	<8.34		100	8.34	ug/L		08/26/24 10:27	08/28/24 18:16	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*80*		*25 - 130*	*08/26/24 10:27*	*08/28/24 18:16*	*1*

Lab Sample ID: MB 500-783223/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 783707
Prep Batch: 783223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.307		1.00	0.307	ug/L		08/26/24 10:27	08/28/24 17:20	1
2,4,5-TP	<0.0834		1.00	0.0834	ug/L		08/26/24 10:27	08/28/24 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*75*		*25 - 130*	*08/26/24 10:27*	*08/28/24 17:20*	*1*

Lab Sample ID: LCS 500-783223/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 783707
Prep Batch: 783223

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D			10.1	9.741		ug/L		97	30 - 115
2,4,5-TP			2.50	2.358		ug/L		94	32 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*93*		*25 - 130*

Lab Sample ID: LCSD 500-783223/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 783707
Prep Batch: 783223

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			10.1	9.497		ug/L		95	30 - 115	3	20

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 500-783223/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 783707
Prep Batch: 783223

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP			2.50	2.258		ug/L		90	32 - 115	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCAA	*88*		*25 - 130*

Lab Sample ID: 500-255347-C-1-I MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: TCLP
Analysis Batch: 783707
Prep Batch: 783223

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	<30.7		1010	986.2		ug/L		98	30 - 115
2,4,5-TP	<8.34		250	233.9		ug/L		94	32 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCAA	*96*		*25 - 130*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-431203/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431731
Prep Batch: 431203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000530		0.00200	0.000530	mg/L		08/23/24 09:00	08/28/24 18:40	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		08/23/24 09:00	08/28/24 18:40	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		08/23/24 09:00	08/28/24 18:40	1
Chromium	<0.00120		0.00500	0.00120	mg/L		08/23/24 09:00	08/28/24 18:40	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		08/23/24 09:00	08/28/24 18:40	1
Copper	<0.00180		0.00500	0.00180	mg/L		08/23/24 09:00	08/28/24 18:40	1
Lead	<0.000260		0.000500	0.000260	mg/L		08/23/24 09:00	08/28/24 18:40	1
Selenium	<0.00140		0.00500	0.00140	mg/L		08/23/24 09:00	08/28/24 18:40	1
Silver	<0.000500		0.00100	0.000500	mg/L		08/23/24 09:00	08/28/24 18:40	1
Thallium	<0.000570		0.00100	0.000570	mg/L		08/23/24 09:00	08/28/24 18:40	1

Lab Sample ID: MB 310-431203/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431857
Prep Batch: 431203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		08/23/24 09:00	08/29/24 14:35	1
Barium	<0.000660		0.00200	0.000660	mg/L		08/23/24 09:00	08/29/24 14:35	1
Nickel	<0.00210		0.00500	0.00210	mg/L		08/23/24 09:00	08/29/24 14:35	1
Vanadium	<0.00110		0.00500	0.00110	mg/L		08/23/24 09:00	08/29/24 14:35	1
Zinc	<0.00970		0.0200	0.00970	mg/L		08/23/24 09:00	08/29/24 14:35	1
Tin	<0.00230		0.00500	0.00230	mg/L		08/23/24 09:00	08/29/24 14:35	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-431203/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431731
Prep Batch: 431203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1928		mg/L		96	80 - 120
Beryllium	0.100	0.09950		mg/L		100	80 - 120
Cadmium	0.100	0.1008		mg/L		101	80 - 120
Chromium	0.100	0.09259		mg/L		93	80 - 120
Cobalt	0.100	0.09829		mg/L		98	80 - 120
Copper	0.200	0.2126		mg/L		106	80 - 120
Lead	0.200	0.2104		mg/L		105	80 - 120
Selenium	0.400	0.3570		mg/L		89	80 - 120
Silver	0.100	0.1127		mg/L		113	80 - 120
Thallium	0.100	0.1009		mg/L		101	80 - 120

Lab Sample ID: LCS 310-431203/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431857
Prep Batch: 431203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2147		mg/L		107	80 - 120
Barium	0.100	0.1023		mg/L		102	80 - 120
Nickel	0.200	0.2115		mg/L		106	80 - 120
Silver	0.100	0.1154		mg/L		115	80 - 120
Vanadium	0.100	0.1018		mg/L		102	80 - 120
Zinc	0.200	0.1887		mg/L		94	80 - 120
Tin	0.200	0.2110		mg/L		106	80 - 120

Lab Sample ID: 310-288748-6 DU
Client Sample ID: MW-104B_24_08
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431731
Prep Batch: 431203

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.000530		<0.000530		mg/L		NC	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-431236/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/23/24 08:35	1

Lab Sample ID: LCS 310-431236/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	99.00		mg/L		99	81 - 116

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: MB 310-431244/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			08/23/24 09:20	1

Lab Sample ID: LCS 310-431244/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431244

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	98.00		mg/L		98	81 - 116		

Lab Sample ID: 310-288805-B-4 DU
Client Sample ID: Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 431244

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	40.0			40.00		mg/L				0	35

GC/MS VOA

Analysis Batch: 431272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-1	MW-21_24_08	Total/NA	Water	8260D	
310-288748-2	MW-22_24_08	Total/NA	Water	8260D	
310-288748-3	MW-33_24_08	Total/NA	Water	8260D	
310-288748-4	MW-35_24_08	Total/NA	Water	8260D	
310-288748-5	MW-36_24_08	Total/NA	Water	8260D	
310-288748-7	MW-108B_24_08	Total/NA	Water	8260D	
310-288748-8	FD-5_24_08	Total/NA	Water	8260D	
310-288748-9	FB-3_24_08	Total/NA	Water	8260D	
310-288748-10	TB-4_24_08	Total/NA	Water	8260D	
MB 310-431272/5	Method Blank	Total/NA	Water	8260D	
LCS 310-431272/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-431272/7	Lab Control Sample	Total/NA	Water	8260D	
310-288707-B-1 MS	Matrix Spike	Total/NA	Water	8260D	
310-288707-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 431245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-2	MW-22_24_08	Total/NA	Water	3510C	
310-288748-3	MW-33_24_08	Total/NA	Water	3510C	
310-288748-5	MW-36_24_08	Total/NA	Water	3510C	
310-288748-9	FB-3_24_08	Total/NA	Water	3510C	
MB 310-431245/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-431245/2-A	Lab Control Sample	Total/NA	Water	3510C	
310-288727-A-2-A MS	Matrix Spike	Total/NA	Water	3510C	
310-288727-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 431519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-2	MW-22_24_08	Total/NA	Water	8270E	431245
310-288748-3	MW-33_24_08	Total/NA	Water	8270E	431245
310-288748-5	MW-36_24_08	Total/NA	Water	8270E	431245
310-288748-9	FB-3_24_08	Total/NA	Water	8270E	431245
MB 310-431245/1-A	Method Blank	Total/NA	Water	8270E	431245
LCS 310-431245/2-A	Lab Control Sample	Total/NA	Water	8270E	431245
310-288727-A-2-A MS	Matrix Spike	Total/NA	Water	8270E	431245
310-288727-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270E	431245

GC Semi VOA

Prep Batch: 431439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-1	MW-21_24_08	Total/NA	Water	3510C	
310-288748-9	FB-3_24_08	Total/NA	Water	3510C	
MB 310-431439/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-431439/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-431439/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 431853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-1	MW-21_24_08	Total/NA	Water	8081B	431439

GC Semi VOA (Continued)

Analysis Batch: 431853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-9	FB-3_24_08	Total/NA	Water	8081B	431439
MB 310-431439/1-A	Method Blank	Total/NA	Water	8081B	431439
LCS 310-431439/4-A	Lab Control Sample	Total/NA	Water	8081B	431439
LCSD 310-431439/5-A	Lab Control Sample Dup	Total/NA	Water	8081B	431439

Leach Batch: 782648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-782648/1-F	Method Blank	Total/NA	Water	1311	
500-255347-C-1-I MS	Matrix Spike	TCLP	Water	1311	

Prep Batch: 783223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-1	MW-21_24_08	Total/NA	Water	8151A	
310-288748-2	MW-22_24_08	Total/NA	Water	8151A	
310-288748-9	FB-3_24_08	Total/NA	Water	8151A	
LB 500-782648/1-F	Method Blank	Total/NA	Water	8151A	782648
MB 500-783223/1-A	Method Blank	Total/NA	Water	8151A	
LCS 500-783223/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 500-783223/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
500-255347-C-1-I MS	Matrix Spike	TCLP	Water	8151A	782648

Analysis Batch: 783707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-1	MW-21_24_08	Total/NA	Water	8151A	783223
310-288748-2	MW-22_24_08	Total/NA	Water	8151A	783223
310-288748-9	FB-3_24_08	Total/NA	Water	8151A	783223
LB 500-782648/1-F	Method Blank	Total/NA	Water	8151A	783223
MB 500-783223/1-A	Method Blank	Total/NA	Water	8151A	783223
LCS 500-783223/2-A	Lab Control Sample	Total/NA	Water	8151A	783223
LCSD 500-783223/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	783223
500-255347-C-1-I MS	Matrix Spike	TCLP	Water	8151A	783223

Metals

Prep Batch: 431203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-1	MW-21_24_08	Total/NA	Water	3005A	
310-288748-2	MW-22_24_08	Total/NA	Water	3005A	
310-288748-3	MW-33_24_08	Total/NA	Water	3005A	
310-288748-4	MW-35_24_08	Total/NA	Water	3005A	
310-288748-5	MW-36_24_08	Total/NA	Water	3005A	
310-288748-6	MW-104B_24_08	Total/NA	Water	3005A	
310-288748-7	MW-108B_24_08	Total/NA	Water	3005A	
310-288748-8	FD-5_24_08	Total/NA	Water	3005A	
310-288748-9	FB-3_24_08	Total/NA	Water	3005A	
MB 310-431203/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-431203/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-288748-6 DU	MW-104B_24_08	Total/NA	Water	3005A	

Metals

Analysis Batch: 431731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-1	MW-21_24_08	Total/NA	Water	6020B	431203
310-288748-2	MW-22_24_08	Total/NA	Water	6020B	431203
310-288748-3	MW-33_24_08	Total/NA	Water	6020B	431203
310-288748-4	MW-35_24_08	Total/NA	Water	6020B	431203
310-288748-5	MW-36_24_08	Total/NA	Water	6020B	431203
310-288748-6	MW-104B_24_08	Total/NA	Water	6020B	431203
310-288748-7	MW-108B_24_08	Total/NA	Water	6020B	431203
310-288748-8	FD-5_24_08	Total/NA	Water	6020B	431203
310-288748-9	FB-3_24_08	Total/NA	Water	6020B	431203
MB 310-431203/1-A	Method Blank	Total/NA	Water	6020B	431203
LCS 310-431203/2-A	Lab Control Sample	Total/NA	Water	6020B	431203
310-288748-6 DU	MW-104B_24_08	Total/NA	Water	6020B	431203

Analysis Batch: 431857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-1	MW-21_24_08	Total/NA	Water	6020B	431203
310-288748-2	MW-22_24_08	Total/NA	Water	6020B	431203
310-288748-3	MW-33_24_08	Total/NA	Water	6020B	431203
310-288748-4	MW-35_24_08	Total/NA	Water	6020B	431203
310-288748-5	MW-36_24_08	Total/NA	Water	6020B	431203
310-288748-7	MW-108B_24_08	Total/NA	Water	6020B	431203
310-288748-8	FD-5_24_08	Total/NA	Water	6020B	431203
310-288748-9	FB-3_24_08	Total/NA	Water	6020B	431203
MB 310-431203/1-A	Method Blank	Total/NA	Water	6020B	431203
LCS 310-431203/2-A	Lab Control Sample	Total/NA	Water	6020B	431203

Prep Batch: 431949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-9	FB-3_24_08	Total/NA	Water	7470A	

Analysis Batch: 432225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-9	FB-3_24_08	Total/NA	Water	7470A	431949

General Chemistry

Analysis Batch: 431236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-4	MW-35_24_08	Total/NA	Water	I-3765-85	
310-288748-5	MW-36_24_08	Total/NA	Water	I-3765-85	
310-288748-6	MW-104B_24_08	Total/NA	Water	I-3765-85	
310-288748-7	MW-108B_24_08	Total/NA	Water	I-3765-85	
310-288748-8	FD-5_24_08	Total/NA	Water	I-3765-85	
310-288748-9	FB-3_24_08	Total/NA	Water	I-3765-85	
MB 310-431236/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-431236/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 431244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-1	MW-21_24_08	Total/NA	Water	I-3765-85	
310-288748-2	MW-22_24_08	Total/NA	Water	I-3765-85	

General Chemistry (Continued)

Analysis Batch: 431244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-288748-3	MW-33_24_08	Total/NA	Water	I-3765-85	
MB 310-431244/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-431244/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-288805-B-4 DU	Duplicate	Total/NA	Water	I-3765-85	

Accreditation/Certification Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

Method Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-288748-1
Project/Site: CRLCSWA_1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8151A	Herbicides (GC)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

eurofins | Environment Testing America

310-288748 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Toth

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8/22/24 | TIME 1025 | Received By: N

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☒ Client Drop-off ☐ Other:

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 1 of 3

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

PB3, MW-33

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE

Thermometer ID: R | Correction Factor (°C): +0.0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.3 | Corrected Temp (°C): 0.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C).		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Foth

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8/22/24 | TIME 1025 | Received By: N

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☒ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID: 2

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 2 of 3

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

TB-4, FB-3, MW-33

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: R | Correction Factor (°C): +0.0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): -0.4 | Corrected Temp (°C): -0.4

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C).		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Toth

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8/22/24 | TIME 1025 | Received By: N

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☒ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 3 of 3

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

TB-5, 35, 36, 104B, 108B + FD-5

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: R | Correction Factor (°C): +0.0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.1 | Corrected Temp (°C): 1.1

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

Chain of Custody Record

652367

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: G.Wilming / H.Dubbs	Site Contact: —	Date: 8/22/24	COC No —
Company Name: Fehl I+E	Tel/Email: gwilming@fehrgroup.com	Lab Contact: Connor	Carrier: RTC-Drop	1 of 1 COCs
Address: 411 6th Ave SE	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			Sampler: T Merritt / R.Gaul
City/State/Zip: Cedar Rapids, IA 52401	TAT if different from Below: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			For Lab Use Only: Walk-in Client: Lab Sampling
Phone: 319-365-9565				
Fax: 319-365-9681				
Project Name: CRLCSWA1				Job / SDG No
Site: CRLCSWA1				
P O #: —				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
MW-21_24-08	8/21/24	14:30	G	H_2O	9			SEE ATTACHED PARAMETER SHEETS
MW-22_24-08	8/21	13:50			9			
MW-33_24-08	8/21	9:35			7			
MW-35_24-08	8/21	11:05			5			
MW-36_24-08	8/21	10:30			7			
MW-104B_24-08	8/21	12:10			2			
MW-108B_24-08	8/21	13:55			5			
FD-5_24-08	8/21	—			5			
FB-3_24-08	8/21	9:25			11			
TB-4_24-08	—	—			—			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: DO NOT ANALYZE TB-5

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	QA-Tech	8/24/24 10:25			8/24/24 1025
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 1 of 5 **COC Number:** 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
1	AW-1_24_08	AW-1	WG	G											X	X			X															
2	AW-2_24_08	AW-2	WG	G											X	X			X															
3	AW-3_24_08	AW-3	WG	G											X	X			X									X				X		
4	AW-4_24_08	AW-4	WG	G											X	X			X															
5	AW-5_24_08	AW-5	WG	G											X	X							X											
6	AW-6_24_08	AW-6	WG	G											X	X			X				X									X		
7	CRL-9_24_08	CRL-9	WG	G											X	X	X		X													X		
8	MW-11_24_08	MW-11	WG	G											X	X			X													X		
9	MW-12_24_08	MW-12	WG	G											X	X	X											X				X		
10	MW-13_24_08	MW-13	WG	G											X	X	X						X											
11	MW-14_24_08	MW-14	WG	G											X	X																		
12	MW-15_24_08	MW-15	WG	G											X	X			X															

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes

Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed.

9/9/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 2 of 5 | **COC Number:** 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
															N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←	
13	MW-16_24_08	MW-16	WG	G											X	X	X						X									X		
14	MW-17_24_08	MW-17	WG	G											X	X			X				X									X		
15	MW-18_24_08	MW-18	WG	G											X	X			X												X			
16	MW-19_24_08	MW-19	WG	G											X	X			X													X		
17	MW-20_24_08	MW-20	WG	G											X	X																X		
18	MW-21_24_08	MW-21	WG	G											X	X							X		X				X			X		
19	MW-22_24_08	MW-22	WG	G											X	X		X	X				X									X		
20	MW-23_24_08	MW-23	WG	G											X	X																X		
21	MW-24_24_08	MW-24	WG	G											X	X	X		X						X							X		
22	MW-25_24_08	MW-25	WG	G											X	X			X													X		
23	MW-26_24_08	MW-26	WG	G											X	X			X							X						X		
24	MW-28_24_08	MW-28	WG	G											X	X					X													

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed

9/9/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 3 **of** 5 | **COC Number:** 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P.O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←	
25	MW-30_24_08	MW-30	WG	G											X	X			X												X			
26	MW-31_24_08	MW-31	WG	G											X	X																		
27	MW-32_24_08	MW-32	WG	G											[illegible]				X				X								X			
28	MW-33_24_08	MW-33	WG	G											X	X			X												X			
29	MW-34_24_08	MW-34	WG	G											X	X	X		X												X			
30	MW-35_24_08	MW-35	WG	G											X	X	X														X			
31	MW-36_24_08	MW-36	WG	G											X	X			X												X			
32	~~MW-37_24_08~~	~~MW-37~~	~~WG~~	~~G~~											X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X			
33	MW-38_24_08	MW-38	WG	G											X	X	X	X	X				X								X	X		
34	VP-3_24_08	VP-3	WG	G											X	X			X	X														
35	VP-4_24_08	VP-4	WG	G											X	X			X											X				
36	MW-101A_24_08	MW-101A	WG	G											X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		X		

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed.

9/6/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 4 **of** 5 | **COC Number:** 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: TA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	Total Arsenic	Filtered (Y/N)	REMARKS / Lab ID
															N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	←
37	MW-101B_24_08	MW-101B	WG	G											X	X	X	X	X				X								X	X			
38	MW-102B_24_08	MW-102B	WG	G											X	X																			
39	MW-104B_24_08	MW-104B	WG	G												X																	X		
40	MW-105A_24_08	MW-105A	WG	G											X	X																			
41	MW-105B_24_08	MW-105B	WG	G											X	X																			
42	MW-106A_24_08	MW-106A	WG	G											X	X																			
43	MW-107A_24_08	MW-107A	WG	G											X	X																			
44	MW-107B_24_08	MW-107B	WG	G											X	X																			
45	MW-108B_24_08	MW-108B	WG	G											X	X																			Do Not Analyze Cobalt
46	MW-109A_24_08	MW-109A	WG	G											X	X																			
47	MW-109B_24_08	MW-109B	WG	G											X	X																			
48	FD-1_24_08		WG	G											X	X																			

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Additional Comments:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed:

9/9/2024

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 5 **of** 5 | **COC Number:** 1-3865545471-072424-389525

Company: Foth Infrastructure & Environment, LLC	Report To: Gina Wilming/Hannah Dubbs (Foth)	Requested Due Date:	Quote Reference:
Address: 411 6th Avenue SE, Suite 400	Copy To:	*TAT: Standard	Project Manager: Gina Wilming
Cedar Rapids, IA 52401	Invoice To: Karmin McShane (CRLCSWA)		Project #: 24C034.00
Phone: (319) 365-9565	P O		Profile #:
Email Addresses: gina.wilming@foth.com	Project Name: CRLCSWA Site 1	Regulatory Agency: Iowa DNR	Sampling Team Members:
hannah.dubbs@foth.com	Task #: 24C034_24_08	State Location: Iowa	

ITEM NUMBER	SAMPLE ID	Sample Location	MATRIX CODE	SAMPLE TYPE G = Grab C = Composite	DATE COLLECTED MM/DD/YYYY	TIME COLLECTED (Military time)	Preservatives: Total # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: IA Appendix I List	TSS	1,3-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	Bis(2-ethylhexyl)phthalate	Di-n-butylphthalate	m/p-Cresol	Phenol	2,4,5-TP	2,4-D	4,4'-DDT	alpha-BHC	beta-BHC	delta-BHC	Dieldrin	Heptachlor	Mercury	Tin	App. I VOCs Only	Filtered (Y/N)	REMARKS / Lab ID
							N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
49	FD-2_24_08		WG	G											X	X																			
50	FD-3_24_08		WG	G											X	X																			
51	FD-4_24_08		WG	G											X	X																			
52	FD-5_24_08		WG	G											X	X																			
53	FB-1_24_08	FB-1	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
54	FB-2_24_08	FB-2	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
55	FB-3_24_08	FB-3	WQ	G											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
56	TB-1_24_08	Trip Blank	WQ	G													X																X		
57	TB-2_24_08	Trip Blank	WQ	G													X																X		
58	TB-3_24_08	Trip Blank	WQ	G													X																X		
59	TB-4_24_08	Trip Blank	WQ	G													X																X		
60	TB-5_24_08	Trip Blank	WQ	G													X																X		

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Valid Matrix Codes	
Matrix	Code
Soil	SO
Sediment	SE
Surface Water	WS
Wastewater	WW
Groundwater	WG
Ambient Air	AA
Other	X

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed:

9/3/2024

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax 319-277-2425

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM. Calhoun, Conner M	Carrier Tracking No(s):	COC No: 310-75659 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Conner Calhoun@et eurofinsus.com	State of Origin. Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State Program - Iowa		Job #: 310-288748-1
Address: 2417 Bond Street, ,	Due Date Requested: 9/5/2024			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email	WO #:			
Project Name: CRLCSWA_1	Project #: 31009776			
Site	SSOW#:			

Analysis Requested

Preservation Codes: -

310-288748 COC

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP (MOD) TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code.						
MW-21_24_08 (310-288748-1)	8/21/24	14 30 Central	G	Water			X	2	
MW-22_24_08 (310-288748-2)	8/21/24	13 50 Central	G	Water			X	2	
FB-3_24_08 (310-288748-9)	8/21/24	09 25 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing North Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing North Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central LLC

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment.

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8/22/24 1530		Stephanie Hernandez	8/23/24 0900	EET19
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks. 1.9-7.8

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-288748-1

Login Number: 288748

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Calhoun, Conner M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-288748-1

Login Number: 288748
List Number: 2
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 08/23/24 01:56 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Data Validation Report

Project Name:	CRLCSWA Site 1 – Cedar Rapids, IA (24C034.00)
Task Name:	24C034_24_08
Data Set Description:	Fall 2024 Groundwater Event
Laboratory(s):	Eurofins – Cedar Falls, IA and Chicago, IL
Laboratory Sample Delivery Group (SDG) ID(s):	310-288174-1, 310-288458-1, 310-288673-1, 310-288748-1
Sample Collection Dates:	8/12/2024 – 8/21/2024
Sample Analysis Dates:	8/15/2024 – 9/4/2024
Sample Matrices:	Groundwater
Sample IDs Reviewed:	See Table 1
Verification and Validation Stage, 100% data:	☐ 1 ☒ 2A ☐ 2B ☐ 3 ☐ 4
Verified and Validated By:	Hannah Dubbs, Project Environmental Scientist 10/16/2024

The analytical data were validated to verify that laboratory quality assurance and quality control (QA/QC) procedures were documented and to evaluate the overall quality of the data reported. Analytical reports include 47 investigative groundwater samples collected via low-flow or no-purge sampling techniques at the Cedar Rapids Linn County Solid Waste Agency (CRLCSWA) Site 1 from August 12 to August 21, 2024; samples are listed in Table 1. The data were collected in accordance with the *Hydrologic Monitoring System Plan* (HRG, 2006), Iowa Department of Natural Resources (IDNR) Sanitary Disposal Closure Permit Number 57-SDP-03-75C (including Amendments), and 567 Iowa Administrative Code (IAC) 113.10.

Validation Summary

Stage 2A data validation was performed on 100% of the data from these SDGs, with review tasks and items of note documented in the summary table below.

Validation Task and Description	Review Notes	Action
Chain of Custody (COC) and Sample Receipt Form Confirm relinquish & receipt signatures. Confirm parameters and analytical methods match COC and Hydrologic Monitoring System Plan (HMSP).	All appropriate relinquish and receipt signatures were present with the exception listed below. Parameters and analytical methods analyzed match the COC and current sampling program with the exception below. The COC associated with laboratory report 310-288458-1 is missing the accepted signature by the laboratory. The Cooler/Sample Receipt and Temperature Log Form provided the laboratory receipt information and indicated that custody seals were present and intact for courier delivery of the samples. The case narrative reported samples arrived in good condition. Therefore, no further action is required. Eurofins will be contacted regarding custody procedures if this issue persists during future events.	Not applicable

Validation Task and Description	Review Notes	Action
COC and Sample Receipt Form Continued	Trip blank TB-5_24_08 was provided by the lab but was not analyzed since only four shipment of volatile samples occurred and trip blanks, TB-1_24_08, TB-2_24_08, TB-3_24_08, and TB-4_24_08 were utilized as the trip blanks for those shipments. The COC notes indicated not to perform analysis on TB-5_24_08.	Not applicable
	For AW-1_24_08, the field files noted the sample was taken at 15:05; however, field staff inadvertently noted 13:05 as the sample time on the COC. Therefore, the laboratory reported the sample time as 13:05 in laboratory report 310-288174-1. A revised laboratory report was not requested. The sample time for AW-1_24_08 will be updated on the lab electronic data deliverable (EDD) prior to upload.	AW-1_24_08 sample time will be updated in the lab EDD prior to data upload.
	For MW-37_24_08, the field files and COC noted the sample was taken at 11:05; however, the laboratory reported the sample time as 11:25 in laboratory report 310-288174-1. A revised laboratory report was not requested. The sample time for MW-37_24_08 will be updated on the lab EDD prior to upload.	MW-37_24_08 sample time will be updated in the lab EDD prior to data upload.
	For MW-15_24_08, the field files and COC noted the sample was taken on 8/14/24; however, the laboratory reported the sample date as 8/15/24 in laboratory report 310-288458-1. A revised laboratory report was not requested. The sample date for MW-15_24_08 will be updated on the lab EDD prior to upload.	MW-15_24_08 sample date will be updated in the lab EDD prior to data upload.
	For MW-16_24_08, the field files and COC noted the sample was taken on 8/14/24; however, the laboratory reported the sample date as 8/15/24 in laboratory report 310-288458-1. A revised laboratory report was not requested. The sample date for MW-16_24_08 will be updated on the lab EDD prior to upload.	MW-16_24_08 sample date will be updated in the lab EDD prior to data upload.
	Diethyl phthalate was reported for FB-2_24_08 in laboratory report 310-288673-1 when it was not requested on the COC. Since FB-2_24_08 is a quality control sample, and diethyl phthalate was an additional parameter, no further action is required.	Not applicable
Case Narrative Review for items noted by the laboratory that may impact the validation process.	As detailed in the Sample Condition Upon Receipt (SCUR) Review Notes, the case narrative for 310-288458-1 noted a quality control issue with pH preservation for the volatile organic compound (VOC) analysis at MW-13_24_08.	No qualifier assigned
	The quality control issues noted in the case narratives were reviewed and found acceptable. Issues either were addressed in the comments below, had no impact on investigative samples, or were corrected/qualified by the laboratory. No additional actions	Not applicable

Validation Task and Description	Review Notes	Action
Case Narrative Continued	are required. Note: continuing calibration verification (CCV) evaluation is not part of Stage 2A validation.	
Sample Condition Upon Receipt (SCUR) Confirm samples in acceptable condition and no discrepancies noted. Confirm preservation meets method requirements.	With the exception identified below, samples were received by Eurofins – Cedar Falls, IA in acceptable conditions. In addition, the herbicide sample shipments from Eurofins – Cedar Falls, IA to Eurofins – Chicago, IL were received in acceptable conditions. The case narrative for 310-288458-1 indicated that properly preserved vials were filled for VOC analysis at MW-13_24_08; however, pH was outside the required criteria when verified by the laboratory. In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020a), the technical holding time for aqueous samples that are properly cooled and pH greater than (>) 2 is 7 days. Since the VOC analysis was conducted within the 7-day holding time for unpreserved vials, no qualifier is assigned.	Not applicable No qualifier assigned
Methods Requested Confirm methods match project requirements and lab provided all methods ordered.	The methods ordered and analyzed were performed in accordance with the project requirements. Methods include United States Environmental Protection Agency (USEPA) 8260D Volatile Organic Compounds (VOCs), USEPA 8270E Semivolatile Organic Compounds (SVOCs), USEPA 8151A Herbicides, USEPA 8081B Organochlorine Pesticides, USEPA 6020B Total Metals, USEPA 7470A Mercury, and United States Geological Survey (USGS) I-3765-85 Total Suspended Solids.	Not applicable
Analytes Requested Confirm analytes ordered match project requirements and lab provided all analytes ordered.	The analytes requested were analyzed in accordance with the project requirements. The laboratory provided all analytes ordered. As noted in the COC and Sample Receipt Form Review Notes, diethyl phthalate was reported for FB-2_24_08 in laboratory report 310-288673-1 when it was not requested on the COC. Since FB-2_24_08 is a quality control sample, and diethyl phthalate was an additional parameter, no further action is required.	Not applicable
Holding Times Confirm laboratory performed extractions and analyses within method-required holding times.	Eurofins performed analysis within the method-required holding times with the exceptions below. <u>310-288174-1</u> Analysis for pesticides per USEPA Method 8081B is required to be extracted within 7 days of sampling and analyzed within 40 days of extraction. MW-37_24_08 was extracted outside the 7-day holding time, but analyzed within the 40-day holding time. In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020a), when pesticide samples are extracted outside the 7-day hold time and analyzed outside or within the 40-day holding time, detected pesticides are qualified J and non-detects are rejected (qualified R). Professional judgment was utilized not to qualify the non-detect pesticide results in MW-37_24_08 since the extraction holding time for pesticides was only slightly exceeded (i.e., 4 hours). Resampling is not recommended since MW-37 is a background monitoring well and background monitoring for pesticides is not required for compliance with the project requirements.	No qualifiers assigned, resampling not recommended

Validation Task and Description	Review Notes	Action
Hold Times Continued	310-288673-1 Analysis for pesticides per USEPA Method 8081B is required to be extracted within 7 days of sampling and analyzed within 40 days of extraction. MW-26_24_08 and FB-2_24_08 were extracted outside the 7-day holding time, but analyzed within the 40-day holding time. In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020a), when pesticide samples are extracted outside the 7-day hold time and analyzed outside or within the 40-day holding time, detected pesticides are qualified J and non-detects are rejected (qualified R). Professional judgment was utilized not to qualify the non-detect alpha-BHC and heptachlor results in MW-26_24_08 and the non-detect pesticide results in FB-2_24_08 since the extraction holding time for pesticides were only slightly exceeded (i.e., 1.5 hours and 3 hours, respectively). In addition, since FB-2_24_08 is a field blank quality control sample, non-detect results are expected. At MW-26, resampling is not recommended since alpha-BHC has not been detected at MW-26 since 2013, and heptachlor has not been detected at MW-26 since 2019. Resampling is not recommended for FB-2_24_08 since it is a quality control sample.	No qualifiers assigned, resampling not recommended
Blanks Confirm no detections in laboratory method blanks, field blanks, and trip blanks.	Table 3 presents analytes detected in the method, field, and trip blanks. No detections were found in the method blanks. Qualifiers are assigned in Table 9. 310-288174-1 Toluene was detected in the field blank (FB-1_24_08) at a concentration of 0.442 J micrograms per liter (ug/L). In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020a) for VOCs, when the blank contamination concentration is J-flagged, associated non-detect sample results are not qualified. 310-288458-1, 310-288673-1, and 310-288748-1 Acetone was detected in the trip blanks (TB-2_24_08, TB-3_24_08, and TB-4_24_08) at concentrations of 3.67 J ug/L, 3.89 J ug/L, and 3.31 ug/L, respectively. In accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020a) for VOCs, when the blank contamination concentration is J-flagged, associated non-detect sample results are not qualified, and associated J-flagged sample results are assigned a U qualifier and reported at the practical quantitation limit (PQL).	No qualifiers assigned Qualifiers assigned
Surrogates or Deuterated Monitoring Compounds For *organic analyses only*, confirm surrogates analyzed and surrogate recovery within QC limits.	Table 4 is intended to present the surrogate recoveries that were outside the control limits. Surrogate recoveries were within control limits for these SDGs.	Not applicable
Matrix Spike/Matrix Spike Duplicates (MS/MSD)	MS/MSD quality control samples are not required for this project. As a result, no MS/MSD samples were collected or submitted for analysis. Where analyzed and reported by the laboratory, MS/MSD results associated with the samples in 310-288174-1, 310-288748-	Not applicable

Validation Task and Description	Review Notes	Action
MS/MSD Continued Confirm MS/MSDs analyzed at frequency specified by project requirements and MS/MSD percent recovery within lab specified limits. Confirm, for Organic analytes, MSD relative percent difference (RPD) within limits. For inorganic analytes, lab replicate RPD within limits.	1, 310-288458-1, and 310-288673-1 are reviewed under Stage 2A validation guidelines. Table 5 presents MS/MSD recoveries and RPDs that were outside the control limits. The MSD recovery for barium associated with AW-1_24_08 was above the recovery limit (75%-125%), indicating potential high bias. However, MS recovery for barium associated with AW-1_24_08 was within the recovery limit. In accordance with the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA, 2020b) for ICP-MS metals, when the MS recovery is less than or equal to (≤) 125% and MSD recovery is >125%, associated detects are qualified J.	Qualifier assigned
Laboratory Control Sample/Laboratory Control Sample Duplicates (LCS/LCSDs) Confirm LCS analyzed and LCS/LCSD recovery and RPD within lab specified limits.	LCS/LCSD quality control samples are not required for this project. Where analyzed and reported by the laboratory, LCS/LCSD results associated with method batches in 310-288174-1, 310-288748-1, 310-288458-1, and 310-288673-1 are reviewed under Stage 2A validation guidelines. Table 6 is intended to present the LCS/LCSD recoveries and RPDs that were outside the control limits. LCS/LCSD recoveries were within control limits and LCS/LCSD RPDs were below control limits for these SDGs.	Not applicable
Laboratory Duplicates Confirm lab duplicates analyzed and RPD within lab specified limits.	Laboratory duplicate quality control samples are not required for this project. Where analyzed and reported by the laboratory, laboratory duplicate results associated with the samples in 310-288174-1, 310-288748-1, 310-288458-1, and 310-288673-1 are reviewed under Stage 2A validation guidelines. Table 7 is intended to present the lab duplicate sample RPDs that were outside the RPD limits. Lab duplicate RPDs were within control limits for these SDGs.	Not applicable
Field Duplicates Confirm field duplicates collected at required frequency and field duplicate RPD within acceptable limits.	Field duplicate samples were collected at a 1 per 10 frequency in accordance with the project requirements. Table 8 contains the precision evaluation of the parent/field duplicate samples. The RPDs between the investigative and field duplicate samples were within the duplicate sample validation criteria.	Not applicable

Abbreviations:
> = greater than
≤ = less than or equal to
CCV = continuing calibration verification
COC = chain of custody
HMSP = Hydrologic Monitoring System Plan
ICP-MS = inductively coupled plasma mass spectrometry
LCS = laboratory control sample
LCSD = laboratory control sample duplicate
MS = matrix spike
MSD = matrix spike duplicate
PQL = Practical Quantitation Limit
QA = quality assurance

QC = quality control
RPD = relative percent difference
SCUR = sample condition upon receipt
SDG = sample delivery group
SVOC = semivolatile organic compound
ug/L = microgram per liter
USEPA = United States Environmental Protection Agency
USGS = United States Geological Survey
VOC = volatile organic compound

Overall Assessment of Data

Item	Acceptable		Comments
	Yes	No	
1. Method Criteria	X		Samples were collected, preserved, shipped/delivered, and analyzed within the method protocols.
2. Precision	X		Field precision was evaluated through investigative and field duplicate RPDs. The RPDs between the investigative and field duplicate samples were within the duplicate sample validation criteria. Laboratory precision was evaluated through MS/MSD, LCS/LCSD, and laboratory duplicate RPDs. Where analyzed and reported by the laboratory, MS/MSD, LCS/LCSD, and laboratory duplicate RPDs were within control limits.
3. Accuracy	X		Accuracy was evaluated through surrogate, MS/MSD, and LCS/LCSD recovery. The percent recoveries for surrogate samples were within control limits. Where analyzed and reported by the laboratory, LCS/LCSD percent recoveries were within control limits. With the exception identified below, MS/MSD percent recoveries were within control limits. As listed in Table 5, the MSD recovery for barium associated with AW-1_24_08 was above the recovery limit (75%-125%). In accordance with the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA, 2020b) for ICP-MS metals, when the MS recovery is less than or equal to (≤) 125% and MSD recovery is greater than (>) 125%, associated detects are qualified J.
4. Representativeness	X		Sampling was conducted in accordance with the sample collection procedures described in the approved HMSP, approved HMSP revisions, and SOPs.
5. Comparability	X		Collection techniques, measurement procedures, methods, and reporting were equivalent to currently approved procedures and are comparable to historical data.
6. Completeness	X		Valid analytical results exceeded 90%.
7. Suitability for Intended Use	X		No evidence of gross contamination or significant issues with the method criteria, precision, accuracy, representativeness, comparability, or completeness were identified.

Overall, the data reported are of good quality and the results for the QA/QC measurements that were used by the laboratories during the analysis of the samples were generally acceptable. Some sample results required qualification during data validation because method-specific QA/QC criteria were not met; results may be qualified for more than one reason. Qualified data are usable (unless qualified as rejected [R]), represent data of good quality and reasonable confidence, and have an acceptable degree of uncertainty (i.e., may be less precise or less accurate than unqualified data). Table 2 provides a definition

of the qualifiers that may be assigned by the validator and/or retained from the laboratory. A summary of the validation qualifiers is provided below.

- No results were qualified as biased low (assigned as J- qualifiers), biased high (assigned as J+ qualifiers), non-detect with the reporting limit an estimated value (assigned UJ, UJ+, or UJ- qualifiers), presumptive evidence of presence of an analyte (assigned as N or NJ qualifiers), or not usable and rejected (assigned as R qualifier).
- One result (0.03%) was qualified as estimated (assigned as J).
- Five results (0.13%) were qualified as non-detect at a concentration less than the reporting limit (assigned as U).
- 100% of the reported data is usable for project data quality objectives.

Attachment 1

Tables

Table 1
Sample IDs Reviewed

Project Sample ID	Analyzed Lab Sample ID	Project Sample ID Matches Lab Client Sample ID	Lab Sample Date/Time Match COC/Logbook	Parameters and Analytical Methods Match COC	Within Hold Times	Sample Type
AW-1_24_08	310-288174-1	Yes	**No**	Yes	Yes	Normal
AW-2_24_08	310-288174-2	Yes	Yes	Yes	Yes	Normal
AW-3_24_08	310-288174-3	Yes	Yes	Yes	Yes	Normal
AW-4_24_08	310-288174-4	Yes	Yes	Yes	Yes	Normal
CRL-9_24_08	310-288174-5	Yes	Yes	Yes	Yes	Normal
MW-17_24_08	310-288174-6	Yes	Yes	Yes	Yes	Normal
MW-18_24_08	310-288174-7	Yes	Yes	Yes	Yes	Normal
MW-23_24_08	310-288174-8	Yes	Yes	Yes	Yes	Normal
MW-37_24_08	310-288174-9	Yes	**No**	Yes	**No**	Normal
MW-38_24_08	310-288174-10	Yes	Yes	Yes	Yes	Normal
VP-3_24_08	310-288174-11	Yes	Yes	Yes	Yes	Normal
VP-4_24_08	310-288174-12	Yes	Yes	Yes	Yes	Normal
MW-101A_24_08	310-288174-13	Yes	Yes	Yes	Yes	Normal
MW-101B_24_08	310-288174-14	Yes	Yes	Yes	Yes	Normal
FD-1_24_08	310-288174-15	Yes	Yes	Yes	Yes	FD
FB-1_24_08	310-288174-16	Yes	Yes	Yes	Yes	FB
TB-1_24_08	310-288174-17	Yes	Yes	Yes	Yes	TB
MW-13_24_08	310-288458-1	Yes	Yes	Yes	Yes	Normal
MW-14_24_08	310-288458-2	Yes	Yes	Yes	Yes	Normal
MW-15_24_08	310-288458-3	Yes	**No**	Yes	Yes	Normal
MW-16_24_08	310-288458-4	Yes	**No**	Yes	Yes	Normal
MW-19_24_08	310-288458-5	Yes	Yes	Yes	Yes	Normal
MW-20_24_08	310-288458-6	Yes	Yes	Yes	Yes	Normal
MW-24_24_08	310-288458-7	Yes	Yes	Yes	Yes	Normal
MW-25_24_08	310-288458-8	Yes	Yes	Yes	Yes	Normal
MW-107A_24_08	310-288458-9	Yes	Yes	Yes	Yes	Normal
MW-107B_24_08	310-288458-10	Yes	Yes	Yes	Yes	Normal
MW-109A_24_08	310-288458-11	Yes	Yes	Yes	Yes	Normal
MW-109B_24_08	310-288458-12	Yes	Yes	Yes	Yes	Normal
FD-2_24_08	310-288458-13	Yes	Yes	Yes	Yes	FD
TB-2_24_08	310-288458-14	Yes	Yes	Yes	Yes	TB
AW-5_24_08	310-288673-1	Yes	Yes	Yes	Yes	Normal
AW-6_24_08	310-288673-2	Yes	Yes	Yes	Yes	Normal
MW-11_24_08	310-288673-3	Yes	Yes	Yes	Yes	Normal

Table 1
Sample IDs Reviewed

Project Sample ID	Analyzed Lab Sample ID	Project Sample ID Matches Lab Client Sample ID	Lab Sample Date/Time Match COC/Logbook	Parameters and Analytical Methods Match COC	Within Hold Times	Sample Type
MW-12_24_08	310-288673-4	Yes	Yes	Yes	Yes	Normal
MW-26_24_08	310-288673-5	Yes	Yes	Yes	**No**	Normal
MW-28_24_08	310-288673-6	Yes	Yes	Yes	Yes	Normal
MW-30_24_08	310-288673-7	Yes	Yes	Yes	Yes	Normal
MW-31_24_08	310-288673-8	Yes	Yes	Yes	Yes	Normal
MW-32_24_08	310-288673-9	Yes	Yes	Yes	Yes	Normal
MW-34_24_08	310-288673-10	Yes	Yes	Yes	Yes	Normal
MW-102B_24_08	310-288673-11	Yes	Yes	Yes	Yes	Normal
MW-105A_24_08	310-288673-12	Yes	Yes	Yes	Yes	Normal
MW-105B_24_08	310-288673-13	Yes	Yes	Yes	Yes	Normal
MW-106A_24_08	310-288673-14	Yes	Yes	Yes	Yes	Normal
FD-3_24_08	310-288673-15	Yes	Yes	Yes	Yes	FD
FD-4_24_08	310-288673-16	Yes	Yes	Yes	Yes	FD
FB-2_24_08	310-288673-17	Yes	Yes	Yes	**No**	FB
TB-3_24_08	310-288673-18	Yes	Yes	Yes	Yes	TB
MW-21_24_08	310-288748-1	Yes	Yes	Yes	Yes	Normal
MW-22_24_08	310-288748-2	Yes	Yes	Yes	Yes	Normal
MW-33_24_08	310-288748-3	Yes	Yes	Yes	Yes	Normal
MW-35_24_08	310-288748-4	Yes	Yes	Yes	Yes	Normal
MW-36_24_08	310-288748-5	Yes	Yes	Yes	Yes	Normal
MW-104B_24_08	310-288748-6	Yes	Yes	Yes	Yes	Normal
MW-108B_24_08	310-288748-7	Yes	Yes	Yes	Yes	Normal
FD-5_24_08	310-288748-8	Yes	Yes	Yes	Yes	FD
FB-3_24_08	310-288748-9	Yes	Yes	Yes	Yes	FB
TB-4_24_08	310-288748-10	Yes	Yes	Yes	Yes	TB

Notes:
FB = field blank
FD = field duplicate
TB = trip blank

Table 2
Explanation of Qualifiers

Qualifier	Explanation
U	The analyte was analyzed for and was not detected above the numerical quantitation limit.
J	The analyte was analyzed for and was positively identified, but the analytical result (i.e., quantitation) is an estimated value. In some cases it is recognized that the estimated value is biased high (J+) suggesting the actual value is lower than estimated; or biased low (J-) suggesting the actual value is higher than estimated.
UJ	The analyte was analyzed for and was not detected above the reporting limit, but the reporting limit is an estimated value.
R	The analyte was analyzed for but may or may not be present and/or quantifiable due to quality control issues. The analytical result is not usable and should be rejected.
N	The analysis indicates presumptive evidence of the presence of the analyte.
NJ	The analysis indicates presumptive evidence of the presence of the analyte, but the numerical value is an estimated quantity.

Notes:
Results qualified as "J" or "UJ" are of acceptable data quality and may be used quantitatively per United States Environmental Protection Agency guidelines.

Table 3
Method, Field, and Trip Blank Exceedances

Lab Report	Blank Type	Lab Sample ID	Analysis Batch	Prep Batch	Parameter	Result	Units	Lab Qualifier	MDL	PQL	Associated Samples
310-288174-16	Field	FB-1_24_08	430513	N/A	Toluene	0.442	ug/L	J	0.430	1.00	Investigative and FD samples in 310-288174-1
310-288458-14	Trip	TB-2_24_08	430749	N/A	Acetone	3.67	ug/L	J	3.10	10.0	Investigative and FD samples in 310-288458-1
310-288673-18	Trip	TB-3_24_08	431192	N/A	Acetone	3.89	ug/L	J	3.10	10.0	Investigative and FD samples in 310-288673-1
310-288748-10	Trip	TB-4_24_08	431272	N/A	Acetone	3.31	ug/L	J	3.10	10.0	Investigative and FD samples in 310-288748-1

Notes:
FB = field blank
FD = field duplicate
MDL = minimum detection limit
N/A = not applicable
PQL = practical quantitation limit
ug/L = micrograms per liter

Table 4
Surrogate Recovery Exceedances

Lab Sample ID	Parent Sample	Parameter	Surrogate % Recovery	% Recovery Limits
Surrogate recoveries were within control limits for these SDGs.				

Notes:
% = percent

Table 5
Matrix Spike - Matrix Spike Duplicate Exceedances

Lab Sample ID	Parent Sample	Parameter	MS % Recovery	MSD % Recovery	% Recovery Limits	RPD	RPD Limit
310-288174-1 MS	AW-1_24_08	Barium	117	126	75-125	3	20
310-288174-1 MSD							

Notes:
% = percent
MS = matrix spike
MSD = matrix spike duplicate
RPD = relative percent difference

Table 6
Laboratory Control Sample and Laboratory Control Sample Duplicate Exceedances

Lab Sample ID	Associated SDG Batch	Parameter	LCS % Recovery	LCSD % Recovery	% Recovery Limits	RPD	RPD Limit
LCS/LCSD recoveries were within control limits for these SDGs.							

Notes:
% = percent
LCS = laboratory control sample
LSCD = laboratory control sample duplicate
RPD = relative percent difference
SDG = sample delivery group

Table 7
Laboratory Duplicate Sample Exceedances

Lab Sample ID	Client Sample ID	Parameter	RPD	RPD Limit
Lab duplicate sample RPDs were within the RPD limits for these SDGs.				

Notes:
RPD = relative percent difference

Table 8
Relative Percent Difference (RPD) Analysis for Field Duplicate Samples
Appendix I Constituents & TSS

RPD = $\dfrac{\text{absolute value (a - b)}}{\text{(a + b)/2}} \times 100\%$

Acceptance Criteria*: 35%

* Unless otherwise noted in project planning documents, the acceptance criteria for field duplicates RPD is as follows:
- For analytes with concentrations greater than 5x (2x for soil matrices) the reporting limit, the RPD should be within 35% for water matrices (50% for soil matrices).
- For analytes with either or both concentrations less than 5x (2x for soil matrices) the reporting limit (indicated below by "low-level"), the absolute difference between the sample and field duplicate should not exceed 5x the reporting limit.

Duplicate Result Analysis:

Parameter	Unit	Parent	Duplicate Sample	RPD	Acceptable?
		MW-18_24_08	**FD-1_24_08**		
Arsenic	mg/L	0.00347	0.00343	low-level	Yes
Barium	mg/L	0.0197	0.0198	0.5%	Yes
Nickel	mg/L	0.00643	0.0064	low-level	Yes
Total Suspended Solids	mg/L	3.40	2.88	low-level	Yes
		MW-19_24_08	**FD-2_24_08**		
cis-1,2-Dichloroethene	ug/L	J 0.228	< 0.210	low-level	Yes
Arsenic	mg/L	J 0.000834	J 0.000753	low-level	Yes
Barium	mg/L	0.0327	0.0351	7.1%	Yes
Nickel	mg/L	0.0144	0.0150	low-level	Yes
Silver	mg/L	J 0.000889	< 0.000500	low-level	Yes
Total Suspended Solids	mg/L	5.20	3.75	low-level	Yes
		MW-28_24_08	**FD-3_24_08**		
1,1-Dichloroethane	ug/L	J 0.308	J 0.338	low-level	Yes
Barium	mg/L	0.206	0.204	1.0%	Yes
Zinc	mg/L	J 0.0121	J 0.0110	low-level	Yes
Total Suspended Solids	mg/L	14.0	7.50	low-level	Yes
		MW-34_24_08	**FD-4_24_08**		
1,1-Dichloroethane	ug/L	2.17	2.35	low-level	Yes
1,2-Dichlorobenzene	ug/L	1.12	1.22	low-level	Yes
1,4-Dichlorobenzene	ug/L	3.69	3.98	low-level	Yes
2-Butanone (MEK)	ug/L	J 2.20	< 2.10	low-level	Yes
Benzene	ug/L	1.11	1.15	low-level	Yes
Chlorobenzene	ug/L	2.94	3.13	low-level	Yes
Chloroethane	ug/L	< 0.790	6.59	low-level	Yes
cis-1,2-Dichloroethene	ug/L	J 0.640	J 0.775	low-level	Yes
Toluene	ug/L	68.9	66.0	4.3%	Yes
trans-1,2-Dichloroethene	ug/L	J 0.893	J 0.959	low-level	Yes
Vinyl Chloride	ug/L	J 0.759	J 0.914	low-level	Yes
Arsenic	mg/L	0.0359	0.0367	2.2%	Yes
Barium	mg/L	0.336	0.339	0.9%	Yes
Chromium	mg/L	J 0.00132	J 0.00133	low-level	Yes
Cobalt	mg/L	0.00340	0.00346	1.7%	Yes
Copper	mg/L	J 0.00280	J 0.00315	low-level	Yes
Lead	mg/L	J 0.000350	J 0.000363	low-level	Yes
Nickel	mg/L	0.0471	0.0487	3.3%	Yes
Vanadium	mg/L	J 0.00243	J 0.00241	low-level	Yes
Total Suspended Solids	mg/L	47.0	42.0	11.2%	Yes

Table 8
Relative Percent Difference (RPD) Analysis for Field Duplicate Samples
Appendix I Constituents & TSS

RPD = $\dfrac{\text{absolute value (a - b)}}{\text{(a + b)/2}} \times 100\%$

Acceptance Criteria*: 35%

* Unless otherwise noted in project planning documents, the acceptance criteria for field duplicates RPD is as follows:
- For analytes with concentrations greater than 5x (2x for soil matrices) the reporting limit, the RPD should be within 35% for water matrices (50% for soil matrices).
- For analytes with either or both concentrations less than 5x (2x for soil matrices) the reporting limit (indicated below by "low-level"), the absolute difference between the sample and field duplicate should not exceed 5x the reporting limit.

Duplicate Result Analysis:

Parameter	Unit	Parent	Duplicate Sample	RPD	Acceptable?
		MW-22_24_08	FD-5_24_08		
1,1-Dichloroethane	ug/L	1.71	1.84	low-level	Yes
1,2-Dichlorobenzene	ug/L	J 0.605	J 0.675	low-level	Yes
1,4-Dichlorobenzene	ug/L	1.36	1.48	low-level	Yes
Chlorobenzene	ug/L	3.01	3.29	low-level	Yes
cis-1,2-Dichloroethene	ug/L	J 0.757	J 0.816	low-level	Yes
trans-1,2-Dichloroethene	ug/L	J 0.376	J 0.405	low-level	Yes
Vinyl Chloride	ug/L	J 0.343	J 0.292	low-level	Yes
Arsenic	mg/L	0.0551	0.0555	0.7%	Yes
Barium	mg/L	0.558	0.561	0.5%	Yes
Cobalt	mg/L	0.00254	0.00254	0.0%	Yes
Nickel	mg/L	0.0304	0.0310	2.0%	Yes
Vanadium	mg/L	J 0.00114	< 0.00110	low-level	Yes
Total Suspended Solids	mg/L	33.5	34.0	low-level	Yes

Table 9
Qualified Results from Data Validation

Sample ID	Lab Sample ID	Method	Parameter	Result	Lab Qualifier	Units	Qualified Result	Validator Qualifier	Explanation
MW-13_24_08	310-288458-1	USEPA 8260D	Acetone	6.52	J	ug/L	<10.0	U	TB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.
MW-34_24_08	310-288673-10	USEPA 8260D	Acetone	4.35	J	ug/L	<10.0	U	TB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.
FD-3_24_08	310-288673-15	USEPA 8260D	Acetone	3.39	J	ug/L	<10.0	U	TB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.
FD-4_24_08	310-288673-16	USEPA 8260D	Acetone	5.11	J	ug/L	<10.0	U	TB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.
MW-22_24_08	310-288748-2	USEPA 8260D	Acetone	4.11	J	ug/L	<10.0	U	TB detection >MDL and <PQL; qualified U and reported at PQL since result is >MDL and <PQL.
AW-1_24_08	310-288174-1	USEPA 6020B	Barium	0.178		mg/L	0.178	J	Associated MS %R ≤125% and MSD %R > 125%; qualified J since result is > PQL.

Notes:
This table only lists validator qualified data. Not all laboratory qualified data are listed; only the laboratory qualified data that was validator qualified are include
> = greater than
< = less than
MDL = minimum detection limit
PQL = practical quantitation limit
TB = trip blank
ug/L = micrograms per liter
USEPA = United States Environmental Protection Agency

Attachment 2

References

References

Howard R. Green Company (HRG), 2006. *Landfill Permit Application, Cedar Rapids/Linn County Solid Waste Agency, Waste Management Site 1, Appendix 4: Hydrologic Monitoring System Plan (HMSP).* September.

United States Environmental Protection Agency (USEPA, 2020a). *National Functional Guidelines for Organic Superfund Methods Data Review.* EPA-540-R-20-005. Office of Superfund Remediation and Technology Innovation, Washington, D.C. Revised November 2020.

USEPA, 2020b. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* EPA-542-R-20-006. Office of Superfund Remediation and Technology Innovation, Washington, D.C. Revised November 2020.

Appendix B
Statistical Reports

Site 1 Statistical Analysis – Spring 2024 Evaluation

Site 1 Statistical Analysis – Fall 2024 Evaluation

Memorandum

411 6th Avenue SE, Suite 400
Cedar Rapids, IA 52401
(319) 365-9565
foth.com

May 24, 2024

TO: Iowa Department of Natural Resources

FR: Gina Wilming; Hannah Dubbs

RE: Site 1 Statistical Analysis - Spring 2024 Evaluation

1 Memorandum Organization

This memo addresses the statistical analysis of the groundwater monitoring data collected in March 2024. The statistical methods and results are summarized, with the memo organization given as follows:

Tables

Attachments

2 Background

The groundwater monitoring locations and status of the Appendix I and II sampling schedules are summarized in Tables 1 and 2. The Appendix I and II analytical results will be provided in Table 14 of the 2024 Annual Water Quality Report (AWQR).

In March 2024, semiannual corrective action, background, and delineation monitoring were conducted at the locations listed in Tables 1 and 2. Corrective action and background monitoring locations were sampled for the Appendix I and detected Appendix II constituents in March 2024. In accordance with Permit Amendment #6, resampling for the full Appendix II list at the corrective action and background monitoring wells is conducted every five years. The next full Appendix II resampling dates will be provided in Table 2 of the 2024 AWQR.

As footnoted in Tables 1 and 2, annual monitoring at upper bedrock wells AW-1, AW-2, AW-3, AW-4, AW-5, MW-20, MW-21, MW-23, MW-24, MW-26, MW-28, MW-30, MW-34, MW-35, VP-3, VP-4, MW-105A, MW-106A, MW-107A, and MW-109A and deeper bedrock wells AW-6, CRL-9, MW-11, MW-15, MW-18, MW-19, MW-22, MW-25, MW-31, MW-36, MW-102B, MW-104B, MW-105B,

MW-107B, and MW-108B is scheduled for Fall 2024. Therefore, these locations were not monitored in March 2024.

Table 1
Upper Bedrock Monitoring Locations and Schedule [1]
Aug. 2008 – Mar. 2024 Appendix I & II Data

Monitoring Location	Monitoring Program	Current Schedule [2] (Mar. 2024)	Appendix I Initiated	# Events to Complete Baseline Appendix I or Completion Date [113.10(5)b]	Appendix II Initiated	# Events to Complete Baseline Appendix II or Completion Date [113.10(6)b]	Returned to Detection Monitoring (Yes/No)
Downgradient Monitoring Locations							
MW-12	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-13	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-16	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-17	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-32	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
Background Monitoring Locations							
MW-37	Background	Appendix II	N/A	N/A	Aug-08	Sep-09	---
MW-101A	Background	Appendix II	Sep-13 [3]	Sep-14 [2]	Sep-13 [3]	Sep-14 [3]	---

N/A = Not applicable. Monitoring points were under routine parameter sampling per 567 IAC 113.2(5) prior to initiation of Appendix II.

[1] In accordance with Permit Amendment #16, annual monitoring at AW-1, AW-2, AW-3, AW-4, AW-5, MW-20, MW-21, MW-23, MW-24, MW-26, MW-28, MW-30, MW-34, MW-35, VP-3, VP-4, MW-105A, MW-106A, MW-107A, and MW-109A is scheduled for Fall 2024. Therefore, these locations were not monitored in Mar. 2024.

[2] Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Mar. 2024. Resampling for the full Appendix II list at the corrective action and background monitoring wells is conducted every five years.

[3] Six rounds of background monitoring for the Appendix II metals were conducted at MW-101A between Sep. 2013 and Mar. 2015. Background monitoring for the full Appendix II list was conducted in Sep. 2015, Mar. 2016, and Aug. 2020.

Table 2
Deeper Bedrock Monitoring Locations and Schedule [1]
Aug. 2008 – Mar. 2024 Appendix I & II Data

Monitoring Location	Monitoring Program	Current Schedule [2] (Aug. 2023)	Appendix I Initiated	# Events to Complete Baseline Appendix I or Completion Date [113.10(5)b]	Appendix II Initiated	# Events to Complete Baseline Appendix II or Completion Date [113.10(6)b]	Returned to Detection Monitoring (Yes/No)
Downgradient Monitoring Locations							
MW-14	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-33	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
Background Monitoring Locations							
MW-38	Background	Appendix II	N/A	N/A	Aug-08	Sep-09	---
MW-101B	Background	Appendix II	Sep-13 [3]	Sep-14 [3]	Sep-13 [3]	Sep-14 [2]	---
Delineation Monitoring Locations							
MW-109B	Delineation	Appendix I	Nov-17	Nov-18	---	---	---

N/A = Not applicable. Monitoring points were under routine parameter sampling per 567 IAC 113.2(5) prior to initiation of Appendix II.

[1] In accordance with Permit Amendment #16, annual monitoring at AW-6, CRL-9, MW-11, MW-15, MW-18, MW-19, MW-22, MW-25, MW-31, MW-36, MW-102B, MW-104B, MW-105B, MW-107B, and MW-108B is scheduled for Fall 2024. Therefore, these locations were not monitored in Mar. 2024.

[2] Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Mar. 2024. Resampling for the full Appendix II list at the corrective action and background monitoring wells is conducted every five years.

[3] Six rounds of background monitoring for the Appendix II metals were conducted at MW-101B between Sep. 2013 and Mar. 2015. Two rounds of background monitoring for the full Appendix II list were conducted in Sep. 2015 and Mar. 2016.

Under the detection and assessment monitoring programs of 567 IAC 113.10(5) and 113.10(6), Appendix I and II monitoring results are statistically compared to background levels as given in 567 IAC 113.10(6)e and to the groundwater protection standard (GWPS) as given in 567 IAC

113.10(6)g and h. A well may return to detection monitoring when all Appendix II constituents are "shown to be at or below background values, using the statistical procedures in paragraph 113.10(4)g for two consecutive sampling events." Consequently, to return to detection monitoring in accordance with 567 IAC 113.10(6)e, all Appendix II constituents must be below the interwell prediction limit (for constituents which are detected in the background data set) or below the laboratory reporting limit (for constituents which are not detected in the background data set) during two consecutive sampling events. As mentioned in previous memos, three consecutive sampling events may be utilized to make the determination to return to detection monitoring to limit frequent fluctuation of wells moving between the detection and assessment monitoring programs. Assessment monitoring continues when Appendix II concentrations are above background values but below the GWPS using the statistical procedures in paragraph 113.10(4)g.

If Appendix II constituents are detected at statistically significant levels (SSLs) above the GWPS, characterization [567 IAC 113.10(6)g] is initiated and the owners or operators are required to begin an assessment of corrective measures, select a remedy, and implement a remedy in accordance with 567 IAC 113.10(7), (8), and (9). For remedy completion [567 IAC 113.10(9)e(2)], compliance with the GWPS is considered achieved by demonstrating that concentrations of Appendix II constituents have not exceeded the GWPS for a period of three consecutive years or an alternate length of time established by the IDNR.

Based on the August 2008 through March 2024 results, this memo presents an evaluation of statistically significant increases (SSIs) and SSLs under the requirements of paragraphs 113.10(4)g and h of 567 IAC.

3 Statistical Methodology

The statistical methods utilized for locations in delineation and corrective action monitoring were consistent with the methods used in previous statistical evaluations. Detailed descriptions of the statistical methods are provided in Attachment 1. Sanitas® v10.0 (Sanitas Technologies) software was utilized to complete the statistical comparisons.

The combined background data sets (MW-37 and MW-101A for the upper bedrock, and MW-38 and MW-101B for the deeper bedrock) were utilized to evaluate SSIs over background.

3.1 Background Data Set Adjustments

3.1.1 Adjustments Associated with Turbidity and Total Suspended Solids

No background data set adjustments are recommended for MW-37, MW-38, MW-101A, and MW-101B based on a review of the field turbidity and total suspended solids (TSS) data from the March 2024 sampling event. The March 2024 TSS concentrations at MW-37, MW-38, MW-101A, and MW-101B were below the 5 mg/L limit for acceptable sample quality.

The background data set adjustments previously recommended and incorporated based on review of turbidity data include:

- Removal of the high-volume September 2009 through September 2014 metals data at MW-101A (initiated with Fall 2016 statistical evaluation).

- Removal of the high-volume September 2009 through September 2014 and the initial low-flow March 2015 metals data at MW-101B (initiated with Fall 2016 statistical evaluation).

- Removal of the March 2019 barium concentration in MW-38 due to elevated TSS and the potential for turbidity to contribute to the higher barium concentration identified (initiated with Spring 2019 statistical evaluation).

- Removal of the March 2023 barium, cadmium, cobalt, copper, nickel, selenium, and vanadium concentrations in MW-101A due to elevated TSS and the potential for turbidity to contribute to the higher concentrations identified (initiated with the Spring 2023 statistical evaluation).

These data set adjustments were maintained in the current statistical evaluation. The removed background data will be listed as crossed-out concentrations in Table 14 of the 2024 AWQR.

Note that the historical high-volume data at the downgradient wells continue to be reviewed on a case-by-case basis. The downgradient data set review is discussed in Section 5.1.

3.1.2 Adjustments Associated with Practical Quantitation Limits

Due to lowering of the practical quantitation limits (PQLs), background data set adjustments were approved to remove earlier non-detect data with elevated PQLs for barium, cobalt, copper, and lead in the upper bedrock and for barium, beryllium, cadmium, cobalt, copper, lead, and nickel in the deeper bedrock due to the increased uncertainty the elevated PQLs added. IDNR approved the background dataset adjustments due to elevated PQLs in the letters dated May 12, 2016 and November 20, 2017 (IDNR, 2016 and 2017). These data set adjustments were maintained in the current statistical evaluation.

3.1.3 Review of Single Background Detections

During the September 2015 event, m/p-cresol and phenol were detected above the laboratory reporting limit at upper bedrock background well MW-37. These two constituents were not detected in either background well before or after the September 2015 event. As a result, m/p-cresol and phenol will not be evaluated using prediction limits unless additional background detections are identified. Downgradient m/p-cresol and phenol results continue to be evaluated using the double quantification rule (DQR).

Single volatile organic compound (VOC) detections were identified for carbon disulfide and toluene in MW-37 in August 2017. The November 2017 retest sample did not confirm the August 2017 detections; therefore, SSIs were not declared. Barium and cobalt were the only other detections in MW-37 in August 2017, and their concentrations were within the range of historical concentrations. Therefore, the August 2017 barium and cobalt results were maintained in the background data set for calculating interwell prediction limits. Since VOCs are considered “never detected” constituents, carbon disulfide and toluene were not added as prediction limit constituents. Downgradient carbon disulfide and toluene results continue to be evaluated using the DQR.

Similarly, single VOC detections were identified for benzene, ethylbenzene, toluene, and total xylenes (BTEX) in MW-37 during the Fall 2018 sampling event. The August 2018 detected metals data at MW-37 was removed from the background dataset due to the potential impact indicated by the BTEX detections. The November 2018 retest sample did not confirm the August 2018 BTEX detections; therefore, SSIs were not declared. Since VOCs are considered “never detected” constituents, the BTEX constituents were not added as prediction limit constituents. Downgradient BTEX results continue to be evaluated using the DQR.

3.2 Corrective Action Constituents

In accordance with the Unified Guidance (USEPA, 2009), corrective action statistics are conducted for analyte/well pairs with previously identified SSLs, as listed in Table 3. No new corrective action constituents were added based on the results of the previous Fall 2023 statistical evaluation. In addition, no corrective action constituents exited corrective action and returned to an assessment constituent in Spring 2024.

Under corrective action statistics, comparisons to background are not conducted (except for cobalt in the upper bedrock under the corrective action hypothesis, further discussed in Section 5.2); therefore, the analyte/well pairs listed in Table 3 were not included in the Section 4 comparisons to background.

Table 3
Corrective Action Constituents [1]

Monitoring Location	Corrective Action Constituents [2]
Upper Bedrock Monitoring Locations	
AW-1	Arsenic
AW-2	Arsenic, Thallium
MW-12	Arsenic
MW-13	Arsenic
MW-16	Arsenic
MW-17	Arsenic
MW-20	Thallium
MW-24	Arsenic
MW-30	Arsenic
MW-32	Arsenic
MW-34	Arsenic, Vinyl Chloride
MW-35	Cobalt
MW-105A	Cobalt
MW-106A	Arsenic, Cobalt
Deeper Bedrock Monitoring Locations	
AW-6	Cobalt
CRL-9	Arsenic, Cobalt
MW-14	Arsenic
MW-22	Arsenic, Cobalt
MW-33	Arsenic
MW-36	Arsenic
MW-105B	Cobalt
MW-109B	Arsenic; Cobalt; Thallium

[1] Table 3 lists the analyte/well pairs identified as corrective action constituents regardless of whether the monitoring location was sampled during the current event.
[2] Corrective action constituents are analyte/well pairs with SSLs over the GWPS identified during previous statistical evaluations and have not achieved compliance with the GWPS in accordance with 567 IAC 113.10(9)e(2).

4 Comparison to Background Levels

Comparisons to background levels were conducted using interwell prediction limits and the DQR. As noted in Section 3.2, comparisons to background were not conducted for the corrective action constituents listed in Table 3.

4.1 Interwell Prediction Limits

Interwell prediction limits were used for formal statistical assessment of SSIs over background for analytes that have been detected above the reporting limit in the combined background data set (MW-37 and MW-101A for the upper bedrock system; MW-38 and MW-101B for the deeper bedrock system). For the upper bedrock, these analytes included antimony, arsenic, barium, cobalt, copper, lead, nickel, tin, and zinc. For the deeper bedrock, these analytes included antimony, arsenic, barium, bis(2-ethylhexyl)phthalate, cadmium, cobalt, copper, nickel, tin, and zinc. Note that interwell prediction limit comparisons were not conducted for arsenic during this statistical evaluation since arsenic is a corrective action constituent in the upper and deeper bedrock locations that were sampled during the March 2024 event. The March 2024 downgradient arsenic concentrations in the upper and deeper bedrock will be evaluated using corrective action statistics.

4.1.1 Upper Bedrock

The upper bedrock prediction limits calculated utilizing August 2008 through March 2024 sample data are summarized in Table 4. The background data set adjustments discussed in Section 3.1 were utilized.

Table 4
Prediction Limit Summary - Upper Bedrock
Aug. 2008 – Mar. 2024 Interwell Data [1]

Chemical Name	Prediction Limit	Units	Prediction Limit Type	Retesting Plan	Prediction Limit Method
Antimony	0.00739	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Arsenic [2]	0.00205	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Barium	0.121	mg/L	Parametric (Lognormal)	1-of-2	$\exp(\bar{y} + k \cdot s_y)$
Cobalt	0.008	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Copper	0.0225	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Lead	0.00695	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Nickel	0.0522	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Tin	0.152	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Zinc	0.0805	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic

[1] Interwell data consists of the Appendix I and II parameters that have been detected in the combined background data set (MW-37 and MW-101A). Note that background data set adjustments were incorporated in accordance with Section 3.1.
[2] Interwell prediction limit comparisons were not conducted for arsenic during this statistical evaluation since arsenic is a corrective action constituent in the upper bedrock location sampled during the March 2024 event. The arsenic prediction limit was calculated for reference; however, there were no downgradient comparisons to this limit for the Spring 2024 evaluation.

Non-parametric prediction limits were used for antimony, arsenic, cobalt, copper, lead, nickel, tin, and zinc since either normality assumptions could not be met or there were less than 50% detects in the combined background data. A parametric lognormal prediction limit was used with barium since there were greater than 50% detects in the combined background data set, the assumptions of normality were met with a lognormal transformation, and the lognormal limit was accepted as being representative of the background distribution.

4.1.2 Deeper Bedrock

Deeper bedrock prediction limits calculated from August 2008 through March 2024 sample data are summarized in Table 5. The background data set adjustments discussed in Section 3.1 were utilized.

Table 5
Prediction Limit Summary - Deeper Bedrock
Aug. 2008 – Mar. 2024 Interwell Data [1]

Chemical Name	Prediction Limit	Units	Prediction Limit Type	Retesting Plan	Prediction Limit Method
Antimony	0.0101	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Arsenic [2]	0.00225	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Barium	0.138	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Bis(2-ethylhexyl) phthalate [3]	25.4	ug/L	Non-Parametric	1-of-2	Maximum Order Statistic
Cadmium	0.000824	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Cobalt	0.0009034	mg/L	Parametric (Lognormal)	1-of-2	$\exp(\bar{y} + k \cdot s_y)$
Copper	0.0108	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Nickel	0.00735	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Tin [3]	0.109	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Zinc	0.0366	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic

[1] Interwell data consists of the Appendix I and II parameters that have been detected in the combined background data set (MW-38 and MW-101B). Note that background data set adjustments were incorporated in accordance with Section 3.1.
[2] Interwell prediction limit comparisons were not conducted for arsenic during this statistical evaluation since arsenic is a corrective action constituent in the deeper bedrock location sampled during the March 2024 event. The arsenic prediction limit was calculated for reference; however, there were no downgradient comparisons to this limit for the Spring 2024 evaluation.
[3] Bis(2-ethylhexyl)phthalate and tin were included only for corrective action monitoring locations.

Non-parametric prediction limits were used for antimony, arsenic, barium, bis(2-ethylhexyl)-phthalate, cadmium, copper, nickel, tin, and zinc since either normality assumptions could not be met or there were less than 50% detects in the combined background data. A parametric lognormal prediction limit was used with cobalt since there were greater than 50% detects in the combined background data set, the assumptions of normality were met with a lognormal transformation, and the lognormal limit was accepted as being representative of the background distribution.

4.1.3 Prediction Limit Exceedances

A summary of the monitoring locations exhibiting a prediction limit exceedance during the March 2024 event is given in Table 6 for the upper bedrock system and Table 7 for the deeper bedrock system. Detailed prediction limit output for each analyte/well pair is included in Attachment 2.

Table 6
Mar. 2024 Prediction Limit Exceedances – Upper Bedrock

	Barium (mg/L)	Nickel (mg/L)
Prediction Limit	**0.121**	**0.0522**
Corrective Action Monitoring Locations – Assessment Constituents		
MW-12	0.388	0.076
MW-13	0.787	
MW-16		0.0898
MW-17	0.147	
MW-32	0.719	

Table 7
Mar. 2024 Prediction Limit Exceedances - Deeper Bedrock

Prediction Limit	Barium (mg/L) 0.138	Cobalt (mg/L) 0.0009034	Nickel (mg/L) 0.00735
Delineation Monitoring Locations – Assessment Constituents			
MW-109B	0.666		0.0378
Corrective Action Monitoring Locations – Assessment Constituents			
MW-14	0.687	0.00126	0.0217
MW-33	0.517	0.00127	

4.2 Double Quantification Rule

The DQR was used to evaluate SSIs over background for the remaining Appendix I and II constituents (i.e., constituents which have not been detected above the reporting limit in the combined background data set). The DQR output is included in Attachment 3, with a summary of the March 2024 DQR detections listed in Table 8 for the upper bedrock wells and in Table 9 for the deeper bedrock wells.

Table 8
Upper Bedrock Double Quantification Rule
Mar. 2024 Detections

Well	Constituent(s)
Corrective Action Monitoring Locations - Assessment Constituents	
MW-12	1,1-Dichloroethane; 1,4-Dichlorobenzene; cis-1,2-Dichloroethene; Thallium
MW-13	1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Benzene; Chlorobenzene; Chloroethane
MW-16	1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Chlorobenzene
MW-32	1,4-Dichlorobenzene; Benzene; Chlorobenzene

Table 9
Deeper Bedrock Double Quantification Rule
Mar. 2024 Detections

Well	Constituent(s)
Delineation Monitoring Locations - Assessment Constituents	
MW-109B	1,4-Dichlorobenzene; Chlorobenzene
Corrective Action Monitoring Locations (Assessment Constituents)	
MW-14	1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Benzene; Chlorobenzene
MW-33	Chlorobenzene

4.3 Summary of Comparison to Background

4.3.1 Delineation Monitoring Locations – Assessment Constituents

For the deeper bedrock system, prediction limit exceedances and DQR detections were identified at MW-109B as listed in Tables 7 and 9. In lieu of retesting for the prediction limit exceedances and DQR detections, SSIs were declared and evaluated for SSLs in Section 5.

4.3.2 Corrective Action Monitoring Locations – Assessment Constituents

For the upper bedrock system, prediction limit exceedances were identified at MW-12, MW-13, MW-16, MW-17, and MW-32 as listed in Table 6. DQR detections were identified at MW-12, MW-

13, MW-16, and MW-32 as listed in Table 8. In lieu of retesting for the prediction limit exceedances and DQR detections, SSIs were declared and evaluated for SSLs in Section 5.

For the deeper bedrock system, prediction limit exceedances and DQR detections were identified at MW-14 and MW-33 as listed in Tables 7 and 9. In lieu of retesting for the prediction limit exceedances and DQR detections, SSIs were declared and evaluated for SSLs in Section 5.

5 Comparison to Groundwater Protection Standard

The prediction limit exceedances and DQR detections listed in Tables 6 through 9 were declared SSIs and evaluated for SSLs over the GWPS per 567 IAC 113.10(6)f and g. Comparisons to the GWPS were evaluated through statistical confidence intervals under the assessment monitoring null hypothesis. SSLs were declared to exist with statistical certainty when the lower confidence limit exceeds the GWPS. Statistical outputs for confidence intervals in assessment mode are included in Attachment 4.

In contrast, corrective action analyte/well pairs (i.e., those where SSLs have been previously declared) were evaluated to determine compliance with the GWPS per 567 IAC 113.10(9)e. A summary of the upper and deeper bedrock corrective action constituents was provided in Table 3. Comparisons to the GWPS in this case were evaluated through statistical confidence intervals under the corrective action monitoring null hypothesis, or in the case of downward trending data, confidence bands (upper 95% confidence limits) placed around the linear trend line. For corrective action constituents, compliance with the GWPS has been achieved with statistical certainty when the UCL or the upper 95% confidence limit on the trend line is lower than the GWPS for a period of three consecutive years or an alternate length of time established by the IDNR. Statistical outputs for regression statistics, confidence bands, and confidence intervals in corrective action mode are included in Attachment 5.

5.1 Compliance Data Set Review for Confidence Intervals

5.1.1 Adjustments Due to Changes in PQLs

As noted in Section 3.1, downgradient data set adjustments were approved to remove earlier non-detect data with elevated PQLs for upper bedrock cobalt data at AW-5, MW-13, MW-17, MW-23, and MW-35; to remove earlier non-detect and J-flagged data with elevated PQLs for deeper bedrock cobalt data at AW-6, CRL-9, MW-11, MW-14, MW-15, MW-22, MW-33 MW-36, MW-102B, MW-105B, and MW-107B; and to remove earlier non-detect and J-flagged data with elevated PQLs for the deeper bedrock nickel data at AW-6, CRL-9, MW-14, MW-15, MW-18, MW-19, MW-22, MW-33, and MW-36 due to the increased uncertainty the elevated PQLs added. IDNR approved the downgradient cobalt dataset adjustments due to elevated PQLs in the letters dated May 12, 2016 and November 20, 2017 (IDNR, 2016 and 2017). These data set adjustments were maintained in the current statistical evaluation.

5.1.2 Adjustments Due to Sampling Technique Changes

As noted in Section 3.1, the downgradient metals data sets continued to be reviewed on a case-by-case basis to determine whether data set adjustments are recommended based on the change in sampling technique from high-volume to low-flow sampling methods. In the letter dated November 20, 2017 (IDNR, 2017), IDNR concurred with the strategy to analyze wells on a case-by-case basis for a statistical correlation between newer and older sampling techniques.

No data set adjustments are currently recommended for the SSIs listed in Tables 6 through 9 and the corrective action constituents in Table 3. To date, downgradient data set adjustments

include removal of the high-volume August 2008 through September 2014 zinc data at AW-7, MW-20, and MW-30 and removal of the high-volume August 2008 through September 2014 nickel data at MW-13. IDNR approved the zinc and nickel data set adjustments in the letter dated November 20, 2017 (IDNR, 2017). These data set adjustments were maintained in the current statistical evaluation.

5.1.3 Adjustments Due to Exiting Corrective Action

As further detailed in Attachment 1, the historical data prior to when statistical compliance with the GWPS was first achieved will be removed when analyte/well pairs exit corrective action and return to assessment constituents. Nickel in MW-12; cobalt, nickel, and vinyl chloride in MW-13; cobalt in MW-23; and arsenic in VP-3 exited corrective action and returned to assessment constituents during the Fall 2019 or Spring 2020 statistical evaluations. Cobalt in AW-5 and MW-17 exited corrective action and returned to assessment constituents during the Fall 2020 statistical evaluation. Arsenic in MW-20 exited corrective action and returned to an assessment constituent during the Fall 2023 statistical evaluation. Compliance with the GWPS was first achieved in Spring 2015 for nickel in MW-12 and vinyl chloride in MW-13; in Fall 2016 for cobalt and nickel in MW-13 and cobalt in MW-23; in Spring 2017 for arsenic in VP-3; in Fall 2017 for cobalt in AW-5 and MW-17; and in Spring 2020 for arsenic in MW-20. The historical data prior to these initial compliance dates have been removed.

The following data set adjustments due to exiting corrective action were maintained for Site 1:

- Removal of the Sep. 2010 through March 2017 cobalt data in AW-5. Note that earlier non-detect cobalt data had already been removed as discussed in Section 5.1.1.
- Removal of the Aug. 2008 through Sep. 2014 nickel data in MW-12.
- Removal of the Sep. 2009 through Mar. 2016 cobalt data in MW-13.
- Removal of the Mar. 2015 through Mar. 2016 nickel data in MW-13. Note that nickel data prior to Mar. 2015 had already been removed as discussed in Section 5.1.2.
- Removal of the Aug. 2008 through Sep. 2014 vinyl chloride data in MW-13.
- Removal of the Sep. 2009 through March 2017 cobalt data in MW-17. Note that earlier non-detect cobalt data had already been removed as discussed in Section 5.1.1.
- Removal of the Aug. 2008 through Aug. 2019 arsenic data in MW-20.
- Removal of the Sep. 2010 through Mar. 2016 cobalt data in MW-23. Note that earlier non-detect cobalt data had already been removed as discussed in Section 5.1.1.
- Removal of the Aug. 2008 through Aug. 2016 arsenic data in VP-3.

5.2 Background as the Cobalt GWPS

Background cobalt concentrations in the upper bedrock data set exceeded the 567 IAC Chapter 137 Statewide Standard. Therefore, pursuant to 567 IAC 113.10(6)h, the GWPS for cobalt becomes background. The GWPS for cobalt in corrective action monitoring was evaluated with the statistical methods described in Attachment 1 and as recommended in the Unified Guidance (USEPA, 2009). Both the prediction limit (i.e., *two-sample*) and confidence interval (i.e., *one-sample*) methods were evaluated. Where concentration shifts were detected in the data, the *one-sample* confidence interval method was evaluated utilizing the linear trend line approach further detailed in Section 5.3 below. With background as the GWPS, the upper confidence limit is compared to the background upper tolerance limit with 95% confidence and 95% coverage (discussed in detail in Attachment 1).

Note that in March 2024, no SSIs were identified for cobalt in the upper bedrock monitoring locations, and none of the upper bedrock corrective action monitoring locations sampled had cobalt as a corrective action constituent. Therefore, comparisons to the GWPS were not conducted for cobalt in the upper bedrock during this statistical evaluation.

5.3 Data Concentration Shifts During Corrective Action

Statistically significant decreasing linear trends continued to be identified for arsenic in MW-12 (since 2008) and MW-17 (since 2018), and for cobalt in MW-109B (since 2017). Consistent with previous memos, 90% confidence bands (upper 95% confidence limits) placed around the linear trend line were used since significantly decreasing linear trends were identified for these well/analyte pairs.

Regression statistics and confidence band outputs for these analyte/well pairs are provided in Attachment 5. The upper 95% confidence limits were above the GWPS for arsenic in MW-12 and MW-17 and cobalt in MW-109B.

5.4 SSL Summary

Confidence interval output for the upper and deeper bedrock assessment constituents is included in Attachment 4, and for the upper and deeper bedrock corrective action constituents is included in Attachment 5. The results for the upper bedrock are summarized in Table 10 and the results for the deeper bedrock are summarized in Table 11.

Table 10
Upper Bedrock SSL Summary
Aug. 2008 – Mar. 2024 Appendix II Data

Chemical Name	Wells with SSL [1]	SSL Not Identified or Rejected [1]	GWPS [2]
Corrective Action Monitoring Locations - Assessment Constituents			
1,1-Dichloroethane (ug/L)		MW-12	140
1,2-Dichlorobenzene (ug/L)		MW-13, MW-16	600
1,4-Dichlorobenzene (ug/L)		MW-12, MW-13, MW-16, MW-32	75
Barium (mg/L)		MW-12, MW-13, MW-17, MW-32	2
Benzene (ug/L)		MW-13, MW-32	5
Chlorobenzene (ug/L)		MW-13, MW-16, MW-32	100
Chloroethane (ug/L)		MW-13	2800
cis-1,2-Dichloroethene (ug/L)		MW-12	70
Nickel (mg/L)		MW-12, MW-16	0.1
Thallium (mg/L)		MW-12	0.002
Corrective Action Monitoring Locations – Corrective Action Constituents			
Arsenic (mg/L)	MW-12, MW-13, MW-16, MW-17, MW-32		0.01

[1] Under the assessment null hypothesis, an SSL is indicated when the lower confidence limit exceeds the GWPS. Under corrective action null hypothesis, an SSL remains when the upper confidence limit exceeds the GWPS.
[2] Values are the 40 CFR Part 141 Safe Drinking Water Act MCL or the 567 IAC Chapter 137 Statewide Standard for a Protected Groundwater Source.

Table 11
Deeper Bedrock SSL Summary
Aug. 2008 – Mar. 2024 Appendix II Data

Chemical Name	Wells with SSL [1]	SSL Not Identified or Rejected [1]	GWPS [2]
Delineation Monitoring Locations – Assessment Constituents			
1,4-Dichlorobenzene (ug/L)		MW-109B	75
Barium (mg/L)		MW-109B	2
Chlorobenzene (ug/L)		MW-109B	100
Nickel (mg/L)		MW-109B	0.1
Corrective Action Monitoring Locations – Assessment Constituents			
1,2-Dichlorobenzene (ug/L)		MW-14	600
1,4-Dichlorobenzene (ug/L)		MW-14	75
Barium (mg/L)		MW-14, MW-33	2
Benzene (ug/L)		MW-14	5
Chlorobenzene (ug/L)		MW-14, MW-33	100
Cobalt (mg/L)		MW-14, MW-33	0.0021
Nickel (mg/L)		MW-14	0.1
Corrective & Delineation Action Monitoring Locations – Corrective Action Constituents			
Arsenic (mg/L)	MW-14, MW-33, MW-109B		0.01
Cobalt (mg/L)	MW-109B		0.0021
Thallium (mg/L)	MW-109B		0.002

[1] Under the assessment null hypothesis, an SSL is indicated when the lower confidence limit exceeds the GWPS. Under corrective action null hypothesis, an SSL remains when the upper confidence limit exceeds the GWPS.
[2] Values are the 40 CFR Part 141 Safe Drinking Water Act MCL or the 567 IAC Chapter 137 Statewide Standard for a Protected Groundwater Source.

5.5 Summary of Comparison to Groundwater Protection Standard

5.5.1 Delineation Monitoring Locations

No SSLs were identified for the assessment constituents in deeper bedrock delineation monitoring location MW-109B. Arsenic, cobalt, and thallium in MW-109B were evaluated as corrective action constituents. SSLs continued to be identified for these analyte/well pairs; therefore, compliance with the GWPS has not been achieved. Note that a statistically significant decreasing trend was identified for cobalt in MW-109B.

5.5.2 Corrective Action Monitoring Locations

No SSLs were identified for the assessment constituents in the upper and deeper bedrock corrective action monitoring locations.

For the upper bedrock corrective action constituents, SSLs over the GWPS remained for arsenic in MW-12, MW-13, MW-16, MW-17, and MW-32. While compliance with the GWPS was not achieved, statistically significant decreasing trends were identified for arsenic in MW-12 and MW-17.

For the deeper bedrock corrective action constituents, SSLs continued to be identified for arsenic in MW-14 and MW-33.

6 Conclusions

The methodology described in Attachment 1 was utilized to conduct the statistical evaluations for the upper and deeper bedrock locations in the delineation and corrective action monitoring programs.

In March 2024, semiannual corrective action, background, and delineation monitoring were conducted at upper bedrock monitoring locations MW-12, MW-13, MW-16, MW-17, MW-32, MW-37, and MW-101A and deeper bedrock monitoring locations MW-14, MW-33, MW-38, MW-101B, and MW-109B. In accordance with Permit Amendment #16, annual monitoring at upper bedrock monitoring wells AW-1, AW-2, AW-3, AW-4, AW-5, MW-20, MW-21, MW-23, MW-24, MW-26, MW-28, MW-30, MW-34, MW-35, VP-3, VP-4, MW-105A, MW-106A, MW-107A, and MW-109A and deeper bedrock wells AW-6, CRL-9, MW-11, MW-15, MW-18, MW-19, MW-22, MW-25, MW-31, MW-36, MW-102B, MW-104B, MW-105B, MW-107B, and MW-108B is scheduled for Fall 2024. Therefore, these locations were not monitored in March 2024.

6.1 Upper Bedrock Monitoring Locations

A summary of the Spring 2024 statistical evaluation results for the upper bedrock system is presented in Table 12.

Table 12
Summary of the Spring 2024 Evaluation - Upper Bedrock

Monitoring Location	Monitoring Program	Current Schedule [1,2] (Mar. 2024)	Current SSIs	Corrective Action Constituents		Retesting Parameter	Monitoring Program Changes
				Current SSLs [3]	Achieved Compliance with GWPS		
Downgradient Monitoring Locations							
MW-12	Corrective Action	Appendix II	1,1-Dichloroethane; 1,4-Dichlorobenzene; Barium; cis-1,2-Dichloroethene; Nickel; Thallium	Arsenic			
MW-13	Corrective Action	Appendix II	1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; Chloroethane	Arsenic			
MW-16	Corrective Action	Appendix II	1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Chlorobenzene; Nickel	Arsenic			
MW-17	Corrective Action	Appendix II	Barium	Arsenic			
MW-32	Corrective Action	Appendix II	1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene	Arsenic			
Background Monitoring Locations							
MW-37	Background	Appendix II					
MW-101A	Background	Appendix II					

(1) In accordance with Permit Amendment #16, annual monitoring at AW-1, AW-2, AW-3, AW-4, AW-5, MW-20, MW-21, MW-23, MW-24, MW-26, MW-28, MW-30, MW-34, MW-35, VP-3, VP-4, MW-105A, MW-106A, MW-107A, and MW-109A is scheduled for Fall 2024. Therefore, these locations were not monitored in Mar. 2024.

(2) Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Mar. 2024. Resampling for the full Appendix II list at the corrective action and background monitoring wells is conducted every five years.

(3) Analyte/well pairs with SSLs over the GWPS identified during previous statistical evaluations and have not achieved compliance with the GWPS for 3 consecutive years in accordance with 567 IAC 113.10(9)e(2).

6.1.1 Corrective Action Monitoring

In March 2024, semiannual corrective action monitoring for the Appendix I and detected Appendix II constituents was conducted at MW-12, MW-13, MW-16, MW-17, and MW-32. The SSIs identified for the assessment constituents in the upper bedrock corrective action monitoring locations are summarized in Table 12. No SSLs were identified for the assessment constituents in the upper bedrock corrective action monitoring locations.

Confidence intervals in corrective action mode or 90% confidence bands around linear trend lines were utilized to evaluate arsenic in MW-12, MW-13, MW-16, MW-17, and MW-32 (i.e., the corrective action constituents in these locations). As shown in Table 12, SSLs remained for arsenic in MW-12, MW-13, MW-16, MW-17, and MW-32. While compliance with the GWPS was not achieved, statistically significant decreasing trends were identified for arsenic in MW-12 and MW-17.

Semiannual corrective action monitoring for the Appendix I and detected Appendix II constituents will be conducted at MW-12, MW-13, MW-16, MW-17, and MW-32 in Fall 2024 and Spring 2025. Annual corrective action monitoring for the Appendix I and detected Appendix II constituents will be conducted at AW-1, AW-2, MW-20, MW-24, MW-30, MW-34, and MW-35 in Fall 2024. In accordance with Permit Amendment #6, the next five-year resampling for the full Appendix II list will be conducted at the corrective action monitoring locations in Fall 2025.

6.1.2 Background Monitoring

Semiannual background monitoring for the Appendix I and detected Appendix II constituents was conducted at MW-37 and MW-101A in March 2024. Semiannual background monitoring for the Appendix I and detected Appendix II constituents will be continued at MW-37 and MW-101A in Fall 2024 and Spring 2025. The next five-year resampling for the full Appendix II list will be conducted at the background monitoring locations in Fall 2025.

6.2 Deeper Bedrock Monitoring Locations

A summary of the Spring 2024 statistical evaluation results for the deeper bedrock system is presented in Table 13.

Table 13
Summary of the Spring 2024 Evaluation - Deeper Bedrock

Monitoring Location	Monitoring Program	Current Schedule [1,2] (Mar. 2024)	Current SSIs	Corrective Action Constituents		Retesting Parameter	Monitoring Program Changes
				Current SSLs [3]	Achieved Compliance with GWPS		
Downgradient Monitoring Locations							
MW-14	Corrective Action	Appendix II	1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; Cobalt; Nickel	Arsenic			
MW-33	Corrective Action	Appendix II	Barium; Chlorobenzene; Cobalt	Arsenic			
Background Monitoring Locations							
MW-38	Background	Appendix II					
MW-101B	Background	Appendix II					
Delineation Monitoring Locations							
MW-109B	Delineation	Appendix I	1,4-Dichlorobenzene; Barium; Chlorobenzene; Nickel	Arsenic; Cobalt; Thallium			

[1] In accordance with Permit Amendment #16, annual monitoring at AW-6, CRL-9, MW-11, MW-15, MW-18, MW-19, MW-22, MW-25, MW-31, MW-36, MW-102B, MW-104B, MW-105B, MW-107B, and MW-108B is scheduled for Fall 2024. Therefore, these locations were not monitored in Mar. 2024.

[2] Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Mar. 2024. Resampling for the full Appendix II list at the corrective action and background monitoring wells is conducted every five years.

[3] Analyte/well pairs with SSLs over the GWPS identified during previous statistical evaluations and have not achieved compliance with the GWPS for 3 consecutive years in accordance with 567 IAC 113.10(9)e(2).

6.2.1 Delineation Monitoring

In March 2024, semiannual delineation monitoring for the Appendix I list was conducted at MW-109B. The SSIs identified for the assessment constituents in MW-109B are summarized in Table 13. No SSLs were identified for the assessment constituents in deeper bedrock delineation monitoring location MW-109B.

Confidence intervals in corrective action mode or 90% confidence bands around linear trend lines were utilized to evaluate arsenic, cobalt, and thallium in MW-109B (i.e., the corrective action constituents in MW-109B). SSLs continued to be identified for these analyte/well pairs; therefore, compliance with the GWPS has not been achieved. While compliance with the GWPS was not achieved, a statistically significant decreasing trend was identified for cobalt in MW-109B.

Semiannual delineation monitoring for the Appendix I constituents will be conducted at MW-109B in Fall 2024 and Spring 2025. In Fall 2024, annual delineation monitoring will be conducted at MW-102B, MW-105B, and MW-107B for the Appendix I list, at MW-104B for arsenic, and at MW-108B for the Appendix I list without cobalt.

6.2.2 Corrective Action Monitoring

In March 2024, semiannual corrective action monitoring for the Appendix I and detected Appendix II constituents was conducted at MW-14 and MW-33. The SSIs identified for the assessment constituents in the deeper bedrock corrective action monitoring locations are summarized in Table 13. No SSLs were identified for the assessment constituents in the deeper bedrock corrective action monitoring locations.

Confidence intervals in corrective action mode were utilized to evaluate arsenic in MW-14 and MW-33 (i.e., the corrective action constituents in these locations). As shown in Table 13, SSLs remained for arsenic in MW-14 and MW-33.

Semiannual corrective action monitoring for the Appendix I and detected Appendix II constituents will be conducted at MW-14 and MW-33 in Fall 2024 and Spring 2025. Annual corrective action monitoring for the Appendix I and detected Appendix II constituents will be conducted at AW-6, CRL-9, MW-22, and MW-36 in Fall 2024. In accordance with Permit Amendment #6, the next five-year resampling for the full Appendix II list will be conducted at the corrective action monitoring locations in Fall 2025.

6.2.3 Background Monitoring

Semiannual background monitoring for the Appendix I and detected Appendix II constituents was conducted at MW-38 and MW-101B in March 2024. Semiannual background monitoring for the Appendix I and detected Appendix II constituents will be continued at MW-38 and MW-101B in Fall 2024 and Spring 2025. The next five-year resampling for the full Appendix II list will be conducted at the background monitoring locations in Fall 2025.

Attachment 1
Detailed Discussion of Statistical Methods

Foth

Memorandum

Statistical Methodology

1. Comparison to Background

For determining which parameters will need a formal statistical treatment, the Unified Guidance (USEPA, 2009) suggests splitting monitoring parameters into three distinct groups: a) reliable indicators selected for formal testing; b) other analytes which are monitored for general groundwater quality information but not statistically tested; and c) those meeting the "never-detected" criteria. Only those parameters with some historically detected presence in background need to be included in the first group and treated with a formal statistical test. Any parameter that has never been detected in background is eligible for the third group of "never-detected" constituents. Constituents with detections below the reporting limit (J-flagged data) will be considered "never-detected." As a means of evaluating the third group, the Unified Guidance suggests the Double Quantification Rule (DQR). The DQR is stated in the Unified Guidance as:

"A confirmed exceedance is registered if any well-constituent pair in the '100% non-detect' group exhibits quantified measurements [i.e., at or above the reporting limit (RL)] in two consecutive sample and resample events."

The Unified Guidance also recommends establishing background sample sizes as large as feasible. The guidance recognizes that small sample sizes in background can be "particularly" troublesome, especially in controlling statistical test false positive and negative rates. With parametric tests (such as parametric prediction limits), the false positive rate may be controlled, but at the expense of statistical power. With non-parametric tests (such as non-parametric prediction limits or the "quasi-statistical" DQR), the false positive rate may be unacceptably high. The Unified Guidance suggests that generally at least 8 to 10 separate background measurements be available, recognizing that statistical power continues to increase with larger sample sizes.

In reports prior to the *2011 Annual Water Quality Report* (Foth, 2012), the ANOVA and a "2x2 contingency table" methods were used to evaluate statistically significant increases (SSIs) over background. These methods met the criteria of 567 Iowa Administrative Code (IAC) 113.10(4)g and h. The ANOVA and "2x2 contingency table" methods were used to maximize the statistical power while minimizing potentially large false positive rates as a result of the smaller sample sizes.

Starting with the *2011 Annual Water Quality Report* (Foth, 2012), the statistical analysis methods utilized for comparison to background were the DQR and "1-of-3" interwell prediction limits as recommended in the Unified Guidance (USEPA, 2009). Note that a "1-of-2" retesting plan was not selected as it would have resulted in a 'low' effective statistical power level for the site based on USEPA reference power curves as defined in the Unified Guidance.

Starting with the Spring 2021 statistical evaluation, the interwell prediction limit retesting plan was modified to a "1-of-2" plan. With increases in the number of background samples, a "1-of-2" plan was able to achieve a 'good' effective statistical power level for the site based on the USEPA reference power curves.

Expansion of the Background Data Set

The background data set was modified in 2013 to add MW-101A and MW-101B to the upper bedrock and deeper bedrock background data sets, respectively. The statistical analysis methods continued the DQR and "1-of-2" interwell prediction limits as recommended in the Unified Guidance (USEPA, 2009), utilizing the pooled data from MW-37 and MW-101A for the upper bedrock system and MW-38 and MW-101B for the deeper bedrock system.

Double Quantification Rule

The DQR will be used to evaluate SSIs over background for the Appendix I and II constituents that were not detected above the reporting limit in the background data sets. An SSI will be indicated for any well-constituent pair with quantified measurements at or above the reporting limit noted for two consecutive sample and resample events. If applicable, the resample will be collected prior to next semiannual sampling event.

Interwell Prediction Limits

Interwell prediction limits will be used to statistically evaluate SSIs over background for the Appendix I and II constituents which have been detected above the reporting limit in the background data set. A "1-of-2" retesting plan will be utilized on individual sample results. The 1-of-2 retesting plan as defined in the Unified Guidance concludes that an SSI has occurred when two out of two sample results exceed the prediction limit, while no SSI is concluded if 1-of-2 are below the limit. If applicable, the resample will be collected prior to next semiannual sampling event. The prediction limit for each constituent will be recalculated semiannually.

For interwell constituents with less than or equal to 50% detects in the background data set, a non-parametric prediction limit will be utilized. The non-parametric prediction limit will be taken as the maximum order statistic (maximum value) of the background data.

For interwell constituents with greater than 50% detects in the background data set, normality assumptions will be verified using the Shapiro-Wilk normality test. If the background data is not normally distributed, a non-parametric prediction limit will be utilized (as described in the paragraph above). If the background data is normally distributed or can be fit to a normal distribution utilizing a normalizing transformation, then a normal-based parametric prediction limit will be applied.

When considering a lognormal prediction limit, a comparison will be made to the maximum order statistic for the background data set. Lognormal prediction limits can be sensitive to smaller departures from lognormality. That is, if data are not truly lognormal, but also not rejected as lognormal, the prediction limit may be inflated because of the transformation. In choosing a lognormal limit, in addition to the percent detections and lognormal goodness of fit criteria, an additional convention will be applied. If the lognormal limit exceeds the level of twice the maximum background concentration, it is assumed that the lognormal model does not adequately fit the background distribution and a non-parametric prediction limit will be selected.

For interwell constituents with 50% to 85% detects in the background data set, Kaplan-Meier estimation will be applied to manage statistical bias introduced by non-detects. For interwell constituents with over 85% detects in the background data set, half the reporting limit will be used for non-detect data. These estimation methods follow Unified Guidance recommendations and are given in detail in Unified Guidance Chapter 15 (USEPA, 2009).

The parametric prediction limit will be calculated as:

$$PL = \bar{x} + k \cdot s$$

where $\bar{x}$ is the sample mean of the August 2008 through current event background data, *s* is the sample standard deviation, and *k* is the multiplier obtained from the Unified Guidance Table 19-1 (USEPA, 2009) for 1-of-2 interwell prediction limits on observations. In determining *k*, the number of constituents of concern (COCs) for formal statistical evaluation along with the number of downgradient wells need to be identified. Per the basic subdivision discussion presented in Section 19.2.1 of the Unified Guidance, along with the discussion regarding the use of the appendix tables for parametric retesting plans given on pages 19-13 through 19-15 of the Unified Guidance (USEPA, 2009), the *k*-multiplier is chosen based on the number of constituents, wells, and evaluations performed annually. When an exact well and COC configuration is not given in the appendix tables, the *k*-multiplier is linearly interpolated as described on page 19-14 of the Unified Guidance (USEPA, 2009).

Sanitas® v10.0. software (Sanitas Technologies) will be used to check distributional assumptions, perform Kaplan-Meier in the case of 50% to 85% detects in the background data set, and calculate the *k*-multipliers and subsequent prediction limits.

Intrawell Prediction Limits

Intrawell prediction limits are calculated in a similar manner to that described above for the interwell case. A main difference between the two methods is the intrawell limit is calculated from a collection of background measurements within the compliance well. A minimum of eight compliance well background samples will be used when calculating the limit.

A second difference is for the parametric prediction limit, in which the *k*-multiplier is modified from the interwell case, as given in Appendix D Tables 19-10 through 19-18 of the Unified Guidance (USEPA, 2009).

Updating intrawell background is performed periodically. The Unified Guidance (Section 5.3.2) recommends that 4 to 8 new compliance observations be collected prior to updating the background dataset. The guidance also states that "a potential update is predicated on there being no statistically significant increase [SSI] recorded for that well constituent, including since the last update." A two-sample t-test or Wilcoxon rank-sum test between existing intrawell background data and the potential set of newer background data is performed, and a non-significant result (α = 0.05) implies that the newer compliance data can be re-classified as background measurements.

For Wilcoxon rank-sum tests, non-detect results cannot be ranked with certainty and the problem is compounded with multiple PQLs and/or J-flagged values (USEPA, 2009). In comparisons where a substantial fraction of non-detect and/or J-flagged measurements or changing PQLs occur, professional judgment will be utilized for evaluating significant differences between the existing intrawell background data and the potential newer set of background data. Consideration will be given to whether significant differences are due to artificial variation introduced by censored data.

2. Comparison to Groundwater Protection Standard – Assessment Monitoring

According to 567 IAC 113.10(6)f and g, under the assessment monitoring program Appendix II results which have been determined to be statistically above background are also statistically compared to the GWPS. If "Appendix II constituents are detected at statistically significant levels above the GWPS" a notice is placed in the operating record and characterization is begun.

Under 567 IAC 113.10(6)h, the GWPS is the maximum contaminant level (MCL) promulgated under Section 1412 of the Safe Drinking Water Act in 40 Code of Federal Regulations (CFR) Part 141. If no MCL exists, or if background concentrations are higher than the MCL, the GWPS is defined as background. Also, per 567 IAC 113.10(6)i, an alternative GWPS may be established by the department for constituents for which there is no MCL such as the "health-based concentrations that comply with the statewide standards for groundwater established pursuant to 567 IAC Chapter 137."

When the GWPS is background concentrations, the statistical methods discussed in the above "1. Comparison to Background" are used. When the GWPS is the MCL or an alternative health-based concentration, per the Unified Guidance (USEPA, 2009), "confidence intervals are the recommended general statistical strategy in compliance/assessment or corrective action monitoring." In the case of normally distributed data, a normal-based parametric confidence interval is used. If the data are not normally distributed a non-parametric confidence interval on the median is used. A lower 99% confidence limit falling above the GWPS implies that concentrations are detected at statistically significant levels above the GWPS with an α-level of 0.01, which is the minimum RCRA regulatory limit from §264.97(i)(2) for an individual test false positive error rate.

The Unified Guidance recognizes that statistical power is also of prime concern to USEPA and that there "should be a high probability that the statistical test will positively identify concentrations that have exceeded a fixed regulatory standard." In compliance/assessment monitoring, instead of pre-specifying the false positive rate prior to computing confidence interval limits, the Unified Guidance suggests the desired level of power (1-β) should be set as an initial target.

For compliance/assessment monitoring purposes, the Unified Guidance (Chapter 22) suggests evaluating increases in the true concentration mean of 1.5 and 2.0 times a fixed standard. (This is similar in concept to the critical power targets in detection monitoring, i.e., 55-60% power at 3σ above background and 80-85% power at 4σ over background). As a general guide, the Unified Guidance suggests there should be at least 70-80% statistical power for detecting increases of 2 times a fixed standard. Specifically, the Unified Guidance recommends there be 50% power of detecting increases in the true concentration mean of 1.5 times a fixed standard (risk ratio of 1.5) and 80% power of detecting increases in the true concentration mean of 2.0 times a fixed standard (risk ratio of 2.0).

To meet these levels of statistical power, α is chosen based on either Unified Guidance Equation 22.1:

$$1 - \beta = G_{T,n-1}\left(t_{1-\alpha,n-1}\middle|\Delta - \sqrt{n}(R-1)\right);$$

where R is the desired risk ratio, $t_{(1-\alpha,n-1)}$ is the (1−α) Student's t-quantile with (*n*−1) degrees of freedom and *G* represents the cumulative non-central t-distribution with (*n*−1) degrees of freedom and noncentrality parameter Δ;

or Unified Guidance Equation 22.2:

$$\alpha \sim 1 - F_{T,n-1}\left(\frac{(R-1)\sqrt{n}}{R \cdot \widehat{CV}} - t_{1-\beta,n-1}\right);$$

where R is the desired risk ratio, n is the sample size, CV is the estimated sample coefficient of variation, $t_{(1-\beta,n-1)}$ is the (1−β) Student's t-quantile with (n−1) degrees of freedom, and *F* is the cumulative (central) Student's t-distribution function.

The first equation (Unified Guidance Equation 22.1) assumes a coefficient of variation (CV) =1. This version is used if only poorer estimates of the true CV are available. In practice, a convention has been adopted with the statistical updates to utilize Unified Guidance Equation 22.2 in all cases where a parametric confidence interval is calculated and use Unified Guidance Equation 22.1 when non-parametric confidence intervals are calculated. Since a non-parametric confidence interval is based on the median, it is not as sensitive to departures from normality, and the assumption of a CV=1 in Unified Guidance Equation 22.1 should provide a conservative estimate.

Since 0.01 is the minimum RCRA regulatory limit for α, it is never set lower than this. Conversely, the Unified Guidance recognizes the "difficulty of simultaneously attaining the recommended level of power while controlling the false positive rate, especially for small sample sizes and highly variable data." The Unified Guidance suggests a maximum false positive rate of α=0.2 is a reasonable upper bound.

Finally, like the need for defining a SWFPR under detection monitoring, the Unified Guidance (Chapter 7) recognizes there may be concern about the "use of relatively high individual test-wise false positive rates (α) in order to meet a pre-specified power, especially when considering the cumulative false positive error rate across multiple wells and/or constituents." However, "the Unified Guidance considers computation of cumulative SWFPRs in compliance/assessment testing to be problematic, and reliance on individual test false positive rates preferable." Notwithstanding, if several confidence limit calculations are compared to the GWPS with high α-levels, caution should be taken in the interpretation.

For calculation of confidence intervals, Sanitas® v10.0 software is again used to check distributional assumptions, perform Kaplan-Meier estimation in the case of 50% to 85% detects, and calculate either parametric or nonparametric confidence limits.

3. Comparison to Groundwater Protection Standard – Corrective Action Monitoring

As stated above, if "Appendix II constituents are detected at statistically significant levels above the GWPS" a notice is placed in the operating record and characterization is begun. Owners or operators are required to initiate an assessment of corrective measures, select a remedy, and implement a remedy in accordance with 567 IAC 113.10(7), (8), and (9). For remedy completion in accordance with 567 IAC 113.10(9)e(2), compliance with the GWPS is considered achieved by demonstrating that concentrations of Appendix II constituents have not exceeded the GWPS

for a period of three consecutive years or an alternate length of time established by the Department.

Starting with the Fall 2019 statistical evaluation, individual analyte/well pairs may return to assessment constituents (at the corrective action monitoring location) once compliance with the GWPS has been achieved for a period of 3 years. Note that monitoring wells will not move out of the corrective action monitoring program until all Appendix II constituents have achieved compliance with the GWPS for a period of three consecutive years.

Confidence Intervals in Corrective Action Mode

In the case of the GWPS being a fixed standard as either the 40 CFR Part 141 Safe Drinking Water Act MCL or the 567 IAC Chapter 137 Statewide Standard for a Protected Groundwater Source, "confidence intervals are the recommended general statistical strategy in compliance/assessment or corrective action monitoring" (USEPA, 2009). However, a primary difference between confidence intervals as used under assessment monitoring and confidence intervals used under corrective action is reversal of the null hypothesis. As detailed in Section 7.2 of the Unified Guidance (USEPA, 2009), the hypothesis testing structure under assessment monitoring is to presume compliance point concentrations do not to exceed the fixed standard unless sampling data indicates otherwise. As a formal statistical hypothesis, this is written as:

$$H_0: \Theta \leq G \quad \text{vs.} \quad H_A: \Theta > G$$

In corrective action mode, the hypothesis is reversed. Namely, compliance point concentrations are presumed to exceed the fixed standard and evidence must be presented to demonstrate regulatory compliance. In the case of corrective action, the statistical hypothesis is written as:

$$H_0: \Theta > G \quad \text{vs.} \quad H_A: \Theta \leq G$$

For testing under assessment monitoring, a lower confidence limit (LCL) is compared to the compliance standard *G*. If the LCL is larger than the standard *G*, it is concluded that the compliance standard has been violated.

However, under corrective action monitoring, the upper confidence limit (UCL) is compared to the compliance standard G. In this case, the UCL should lie below the standard to accept the alternative hypothesis that concentration levels are in compliance.

The UCL α-level under corrective action monitoring is set so that a high degree of confidence is achieved in declaring successful remediation. Per the Unified Guidance (Section 7.4.2) "USEPA's overriding concern in corrective action is that remediation efforts are not declared successful without sufficient statistical proof." The Unified Guidance "recommends the use of a reasonably low, fixed test-wide false positive rate (e.g., α = 0.05 or 0.10)." In this case, α = 0.10 corresponds to a 90% UCL.

GWPS as Background

Pursuant to 567 IAC 113.10(6)h, when background concentrations of an analyte exceed the applicable MCL or 567 IAC Statewide Standard for a Protected Groundwater Source, the GWPS is the background concentration. In this case, the GWPS is not a fixed standard but based on a distribution of background sample results.

Section 7.5 of the Unified Guidance (USEPA, 2009) details statistical hypothesis testing under corrective action when the GWPS is background. The Unified Guidance offers two alternative statistical approaches to hypothesis testing in this case. These alternatives are as follows:

A. The first represents a *two-sample* test of two distinct populations, namely the compliance well to background populations. Similar to the statistical tests used under detection and assessment monitoring, with this alternative under corrective action, the Unified Guidance states that "one highly recommended statistical test approach is a prediction limit." The Unified Guidance also states, "whatever the critical value for a selected background test, it becomes the GWPS under compliance/assessment or corrective action monitoring." Further, "the only allowable hypothesis test structure for the two-sample approach follows that of detection and compliance monitoring. Once exceeded and in corrective action, a return to compliance is through evidence that future samples lie below the GWPS using the same hypothesis structure." Therefore, with this approach in corrective action, prediction limits are calculated similarly as in assessment monitoring. Compliance well concentrations below a prediction limit indicate a return to concentrations below the background GWPS.

B. The second involves computation of a fixed statistic from the background data as the GWPS. The Unified Guidance recommendation in this case is to define a fixed GWPS based on a background upper tolerance limit with 95% confidence and 95% coverage. This is designed to be a "reasonable maximum on the likely range of background concentrations." This upper tolerance limit based on background data is then used as a fixed standard in statistical comparisons with 90% or 95% UCLs from compliance wells as discussed previously. Also, with the UCL method, the null hypothesis is reversed from that of assessment monitoring, assuming contamination is above the GWPS. A UCL falling below the background GWPS offers evidence of a return to concentrations below the GWPS. The Unified Guidance refers to this approach as a *single-sample* testing method, since the compliance well population is tested against a defined fixed standard.

The Unified Guidance discusses tradeoffs between the two approaches and does not necessarily prescribe either approach over the other. The Unified Guidance suggests that both approaches may be used, where "the background GWPS would be a range based on the two testing methods rather than a single value."

Normality

For calculation of confidence intervals, Sanitas® v10.0 software is again used to check distributional assumptions, perform Kaplan-Meier estimation in the case of 50% to 85% detects, and calculate either parametric or nonparametric confidence limits. "Corrective Action Mode" is selected for this analysis.

Non-Corrective Action Constituents

As recommended in the Unified Guidance (USEPA, 2009), confidence intervals in corrective action mode will be utilized to evaluate only constituents and monitoring locations with previously identified SSLs over the GWPS. Other compliance constituents (i.e., those without SSLs over the GWPS during prior statistical evaluations) will continue to be evaluated using the "1. Comparison to Background" and "2. Comparison to Groundwater Protection Standard – Assessment Monitoring" methods described above.

Note: The Unified Guidance (USEPA, 2009) states: "it should be recognized that once corrective action or remediation activities are initiated, there will be a considerable time during which the GWPS may still be exceeded. As provided in the RCRA regulations, it is at the conclusion of remediation activities that formal corrective action monitoring evaluation is appropriate. However, in the intervening period of remedial activity, well constituents can still be monitored, and the relative efficacy of remediation measures tracked. The same corrective action hypothesis can be assumed for the targeted constituents; techniques such as trend testing may be appropriate interim applications." Given the statement above and the intentions of 567 IAC 113.10(6)g, as soon as an SSL is identified for an assessment monitoring constituent/location, then the next statistical evaluation will utilize corrective action monitoring (confidence intervals in corrective action mode).

Data Concentration Shifts During Corrective Action

Confidence intervals assume that the population is stable over time. As a result, confidence intervals may not accurately represent the current well concentrations if increasing or decreasing trends are observed (i.e., during a release or under active remediation). Per the Unified Guidance (USEPA, 2009), lower or upper confidence limits constructed on accumulated data may be overly wide (due to high sample variability caused by combining pre- and post-shift data) and may not be reflective of more recent upward/downward shifts in the contaminant distribution.

Alternative procedures may be applied to data sets with shifting distributions. For example, where trends tests are significant, pre-shift data may be removed from the well/parameter data set for the purposes of constructing the confidence interval. "The reduction in sample size will often be more than offset by the gain in statistical power. More recent measurements may exhibit less variation around the shifted mean value, resulting in a shorter confidence interval" (USEPA, 2009).

Another alternative is to construct confidence bands around the trend line to track progress towards exceeding or meeting a fixed standard. As suggested in the Unified Guidance (Chapter 22), if a trend is present, a 90% confidence band (upper 95% confidence limit) is placed on the linear trend line. If the upper 95% confidence limit on the trend line falls below the GWPS, the well is found to have reduced to levels statistically below the GWPS.

As the discussed in the Unified Guidance, "inferences concerning a linear regression are generally appropriate when two conditions hold: 1) the residuals from the regression are approximately normal or at least reasonably symmetric in distribution; and 2) a plot of residuals versus concentrations indicates a scatter cloud of essentially uniform vertical thickness or width." These conditions are assessed through normal probability plots of the regression residuals and plots of residuals against the predicted concentrations.

Data Adjustments Due to Exiting Corrective Action

When analyte/well pairs exit corrective action and return to assessment constituents, the hypothesis testing structure is reversed again. In corrective action mode, compliance point concentrations were presumed to exceed the GWPS, and evidence must be presented to demonstrated regulatory compliance (i.e., UCLs below the GWPS for three consecutive years). With the return to assessment constituents, analyte/well pairs have demonstrated regulatory compliance. The hypothesis testing structure reverts to the assessment monitoring structure where compliance point concentrations are presumed to not exceed the GWPS unless sampling

data indicates otherwise (i.e., LCL is above the GWPS). With this reversion in hypothesis, the focus shifts to evaluating concentration changes in the analyte/well pair that would indicate an increase over the GWPS and re-trigger corrective action. For constituents with historical SSLs, earlier concentrations that had previously triggered corrective action are no longer providing useful information regarding the current assessment monitoring hypothesis. Retaining the historical data during the timeframe in which the GWPS was exceeded will result in the regression or confidence interval methods being slower to respond to new increases. As a result, the historical data prior to when statistical compliance with the GWPS was first achieved will be removed when analyte/well pairs exit corrective action and return to assessment constituents.

Attachment 2
Sanitas Report Output for Prediction Limit Calculations

Upper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Corrective Action Monitoring Locations - Assessment Constituents													
Antimony (mg/L)	MW-12	0.00739	3/28/2024	0.001ND	No	50	n/a	n/a	82	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-13	0.00739	3/28/2024	0.001ND	No	50	n/a	n/a	82	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-16	0.00739	3/29/2024	0.001ND	No	50	n/a	n/a	82	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-17	0.00739	3/29/2024	0.001ND	No	50	n/a	n/a	82	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-32	0.00739	3/28/2024	0.001ND	No	50	n/a	n/a	82	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Barium (mg/L)	MW-12	0.121	3/28/2024	0.388	Yes	47	-3.083	0.4184	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-13	0.121	3/28/2024	0.787	Yes	47	-3.083	0.4184	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-16	0.121	3/29/2024	0.0651	No	47	-3.083	0.4184	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-17	0.121	3/29/2024	0.147	Yes	47	-3.083	0.4184	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-32	0.121	3/28/2024	0.719	Yes	47	-3.083	0.4184	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-12	0.008	3/28/2024	0.00435	No	38	n/a	n/a	32	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-13	0.008	3/28/2024	0.00163	No	38	n/a	n/a	32	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-16	0.008	3/29/2024	0.00254	No	38	n/a	n/a	32	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-17	0.008	3/29/2024	0.00627	No	38	n/a	n/a	32	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-32	0.008	3/28/2024	0.00305	No	38	n/a	n/a	32	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Copper (mg/L)	MW-12	0.0225	3/28/2024	0.0025ND	No	50	n/a	n/a	94	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-13	0.0225	3/28/2024	0.0025ND	No	50	n/a	n/a	94	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-16	0.0225	3/29/2024	0.0025ND	No	50	n/a	n/a	94	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-17	0.0225	3/29/2024	0.0025ND	No	50	n/a	n/a	94	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-32	0.0225	3/28/2024	0.00261J	No	50	n/a	n/a	94	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-12	0.00695	3/28/2024	0.00025ND	No	49	n/a	n/a	78	n/a	n/a	0.0007437	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-13	0.00695	3/28/2024	0.00025ND	No	49	n/a	n/a	78	n/a	n/a	0.0007437	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-16	0.00695	3/29/2024	0.00025ND	No	49	n/a	n/a	78	n/a	n/a	0.0007437	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-17	0.00695	3/29/2024	0.00025ND	No	49	n/a	n/a	78	n/a	n/a	0.0007437	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-32	0.00695	3/28/2024	0.00025ND	No	49	n/a	n/a	78	n/a	n/a	0.0007437	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-12	0.0522	3/28/2024	0.076	Yes	50	n/a	n/a	58	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-13	0.0522	3/28/2024	0.0147	No	50	n/a	n/a	58	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-16	0.0522	3/29/2024	0.0898	Yes	50	n/a	n/a	58	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-17	0.0522	3/29/2024	0.0109	No	50	n/a	n/a	58	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-32	0.0522	3/28/2024	0.0355	No	50	n/a	n/a	58	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-12	0.152	3/28/2024	0.0025ND	No	52	n/a	n/a	96	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-32	0.152	3/28/2024	0.0025ND	No	52	n/a	n/a	96	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-12	0.0805	3/28/2024	0.01ND	No	52	n/a	n/a	87	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-13	0.0805	3/28/2024	0.01ND	No	52	n/a	n/a	87	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-16	0.0805	3/29/2024	0.0594	No	52	n/a	n/a	87	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-17	0.0805	3/29/2024	0.01ND	No	52	n/a	n/a	87	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-32	0.0805	3/28/2024	0.01ND	No	52	n/a	n/a	87	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2

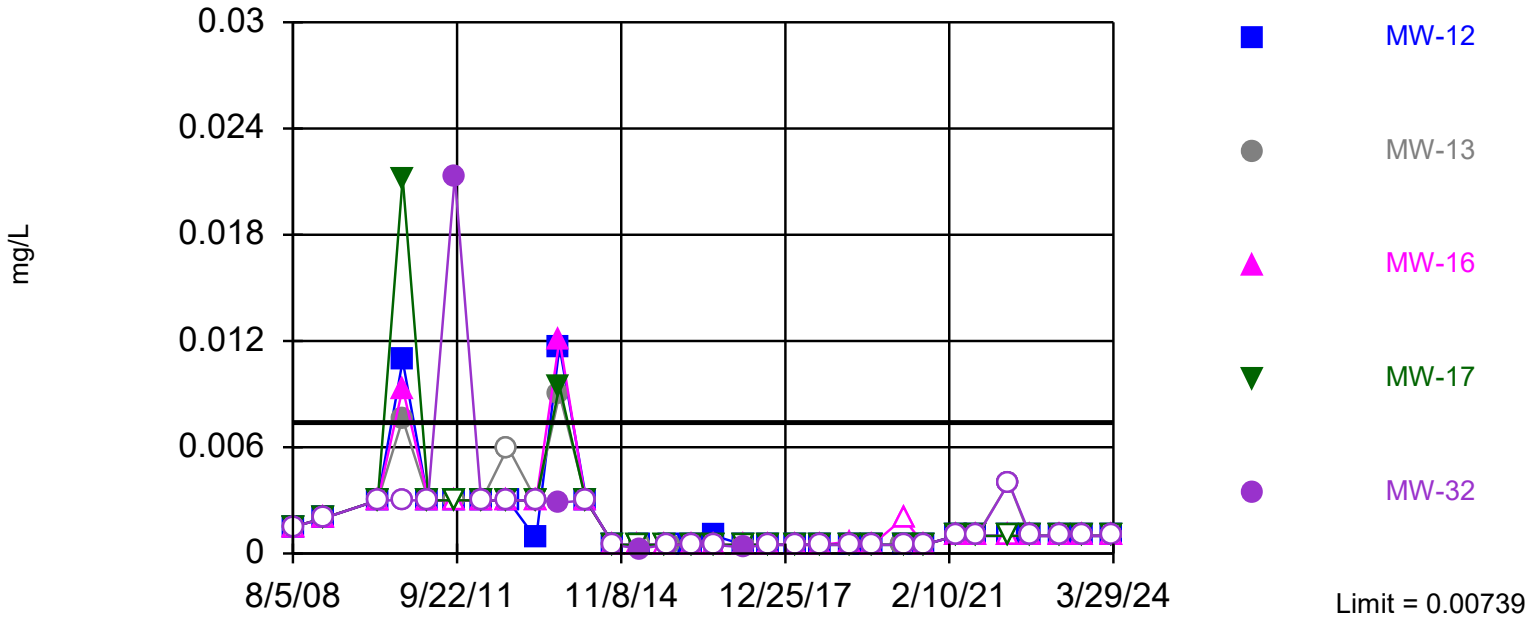
[1] Interwell prediction limit data consists of the detected Appendix I and II parameters in the combined MW-37 and MW-101A data set. Note that background data set adjustments were incorporated in accordance with Section 3.1 of the Spring 2024 Statistical Evaluation memo.

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 50 background values. 82% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2).

Constituent: Antimony Analysis Run 5/22/2024 12:28 PM

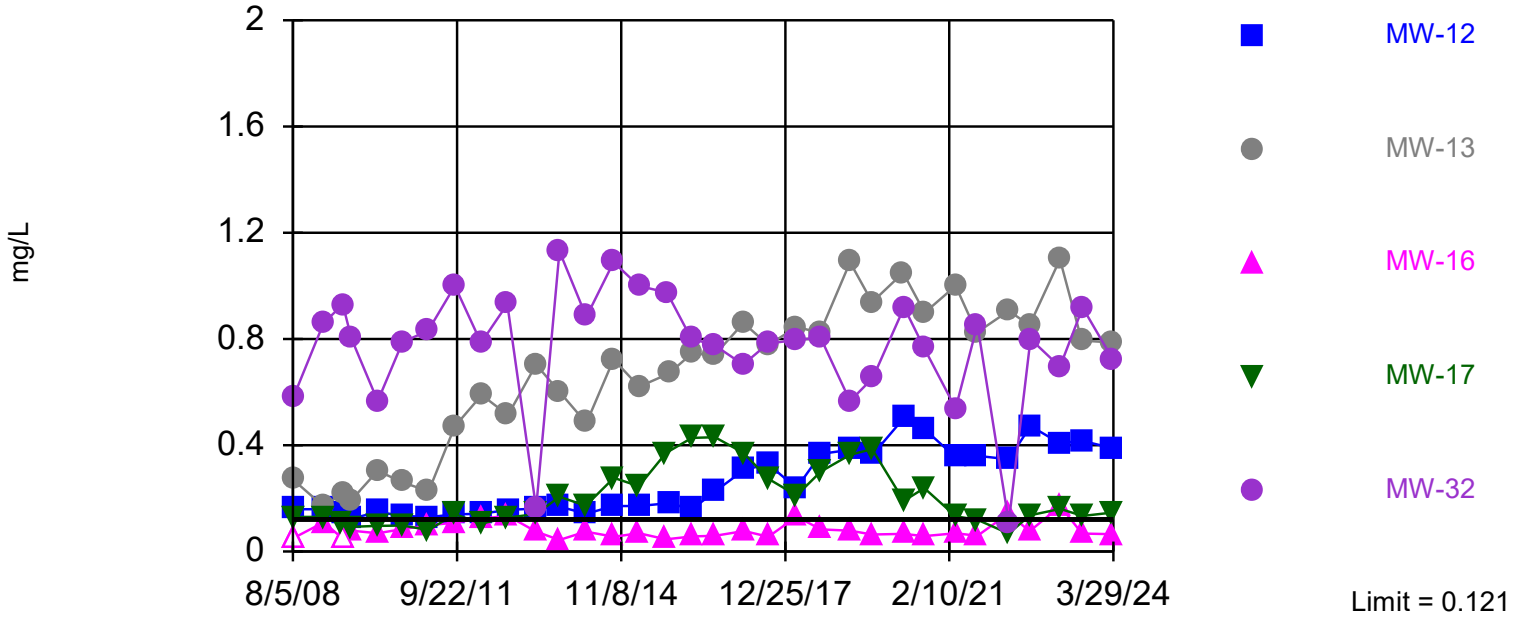
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-13, MW-17, MW-32

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.083, Std. Dev.=0.4184, n=47. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9379, critical = 0.928. Kappa = 2.322 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Barium Analysis Run 5/22/2024 12:28 PM

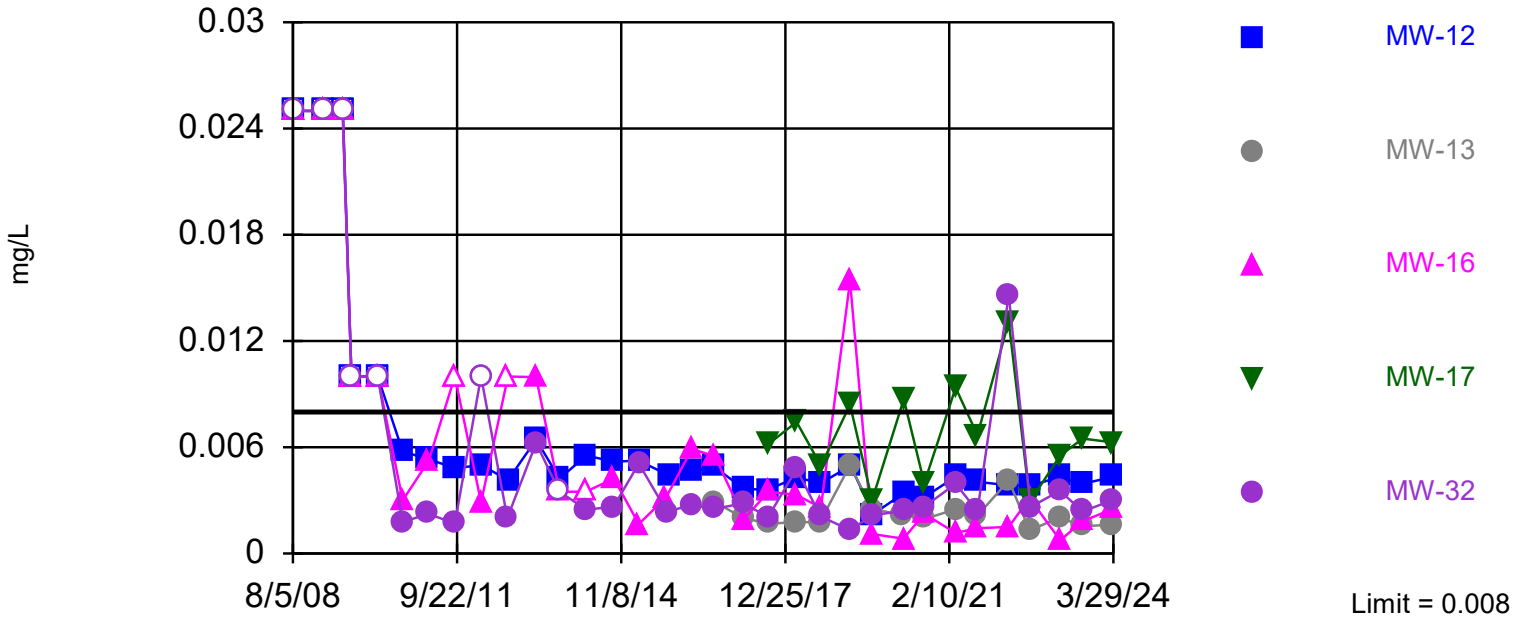
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 31.58% NDs. Annual per-constituent alpha = 0.04586. Individual comparison alpha = 0.001173 (1 of 2).

Constituent: Cobalt Analysis Run 5/22/2024 12:28 PM

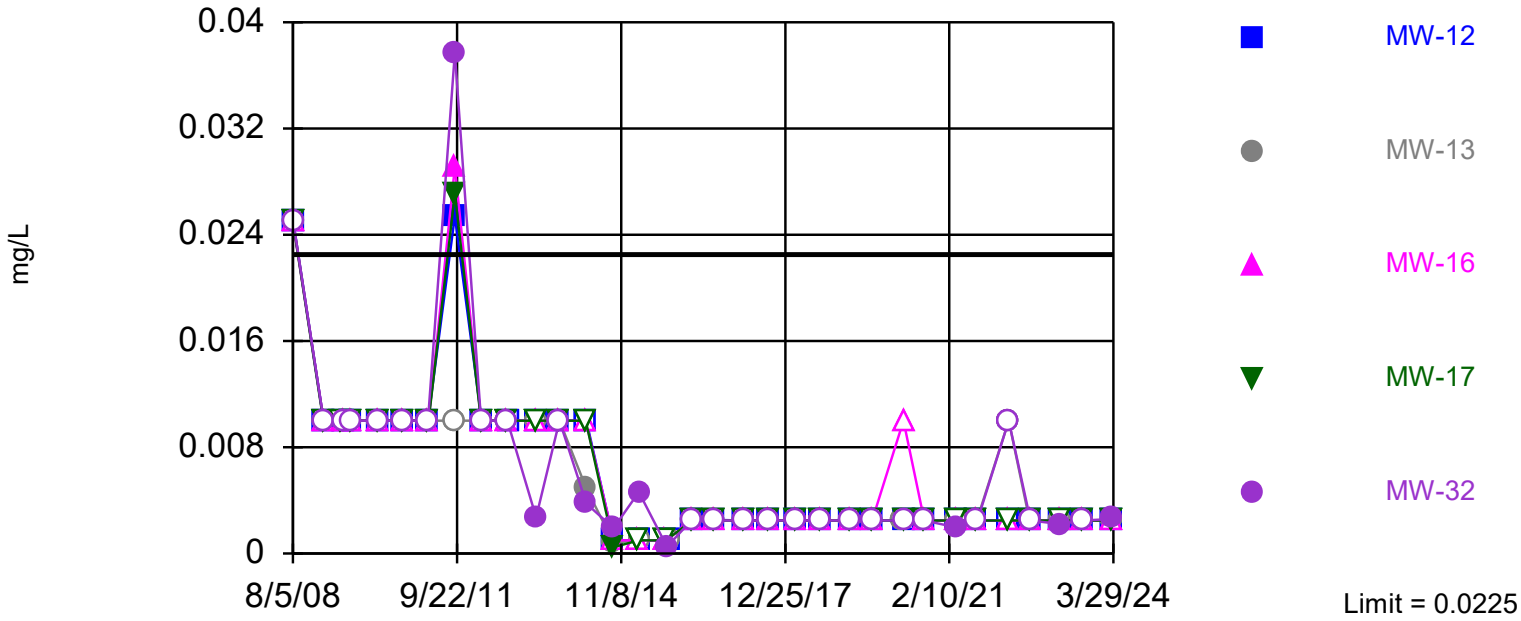
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 50 background values. 94% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2).

Constituent: Copper Analysis Run 5/22/2024 12:28 PM

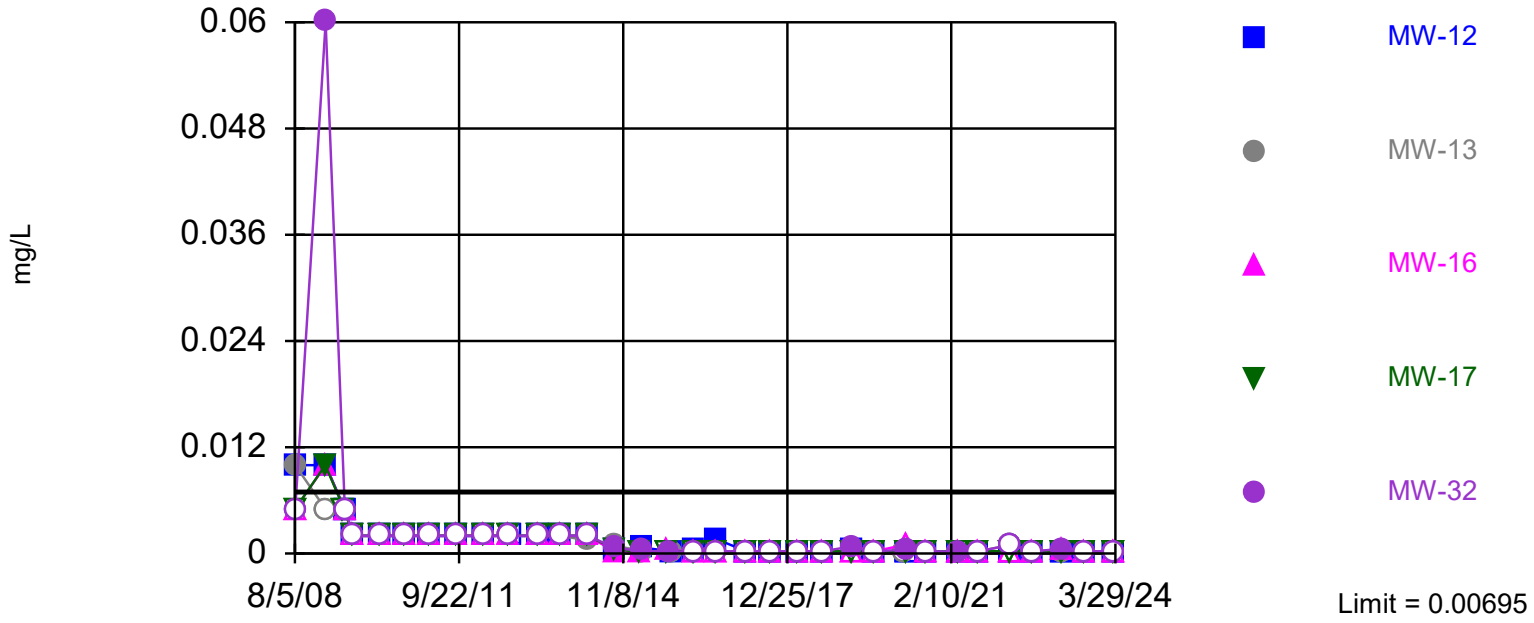
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 49 background values. 77.55% NDs. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2).

Constituent: Lead Analysis Run 5/22/2024 12:28 PM

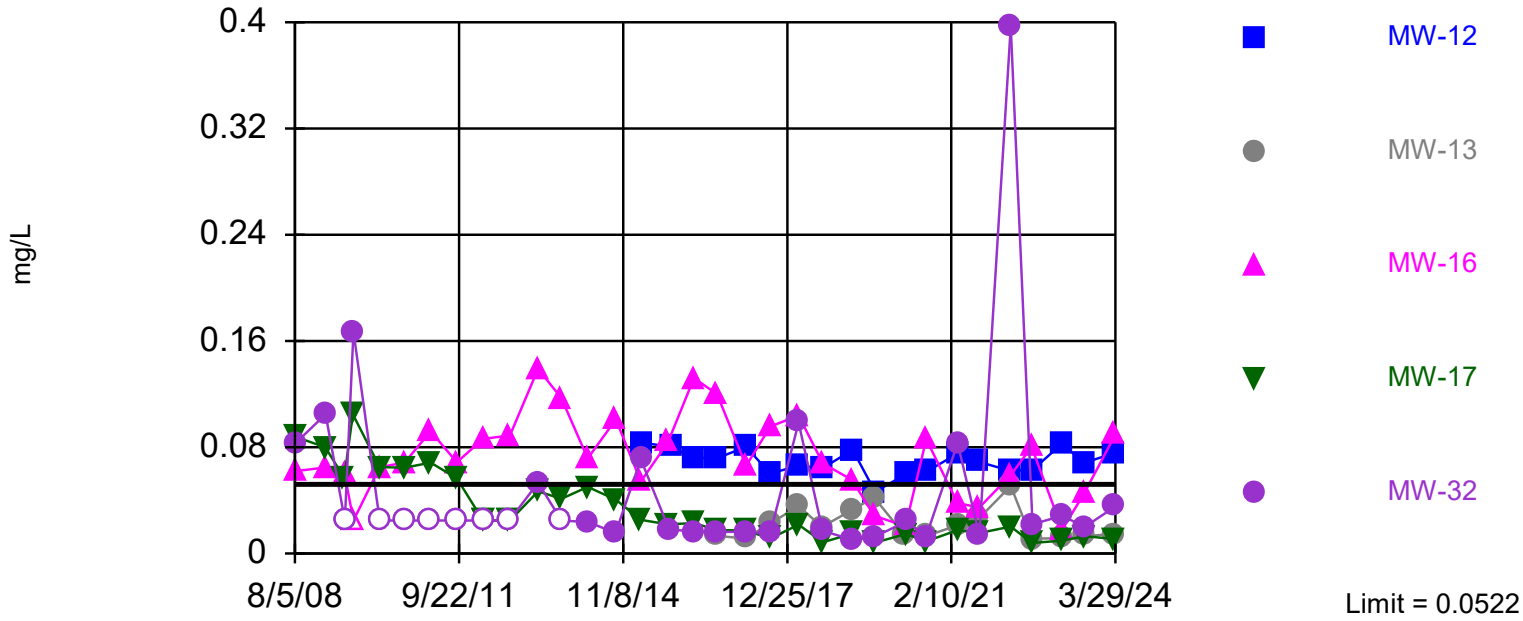
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-16

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 50 background values. 58% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2).

Constituent: Nickel Analysis Run 5/22/2024 12:28 PM

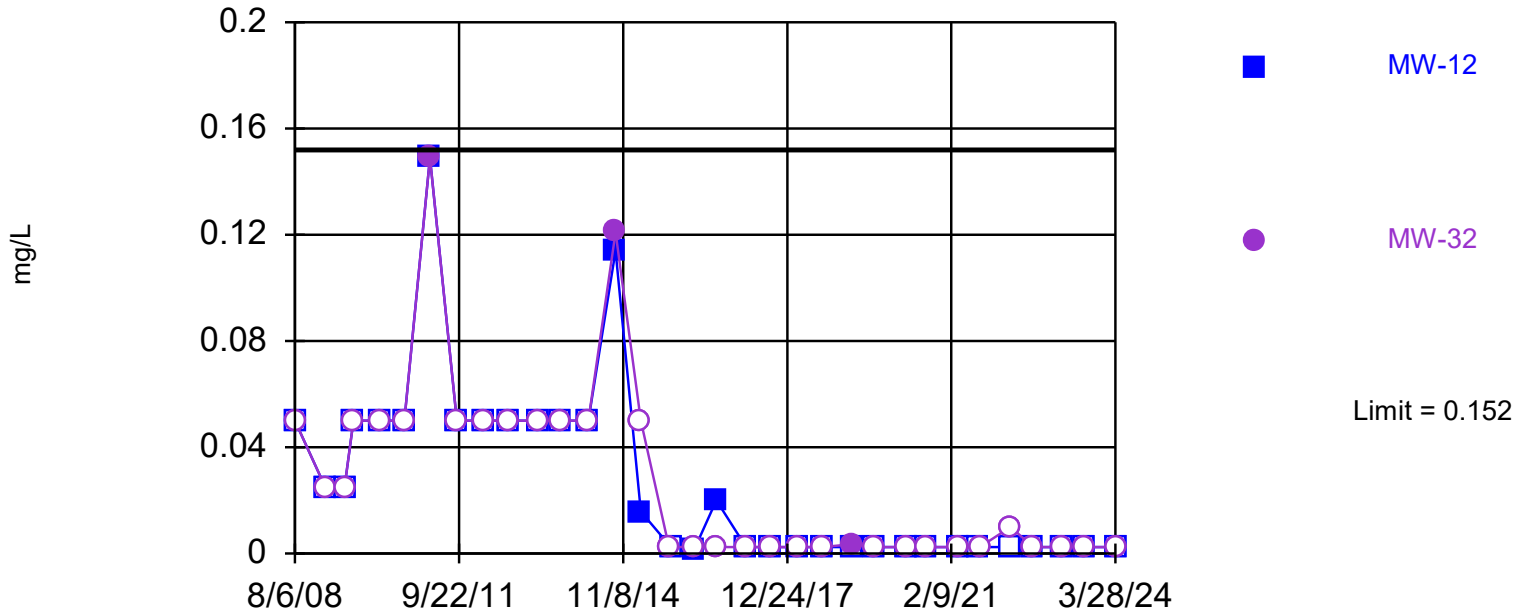
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 96.15% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Tin Analysis Run 5/22/2024 12:47 PM

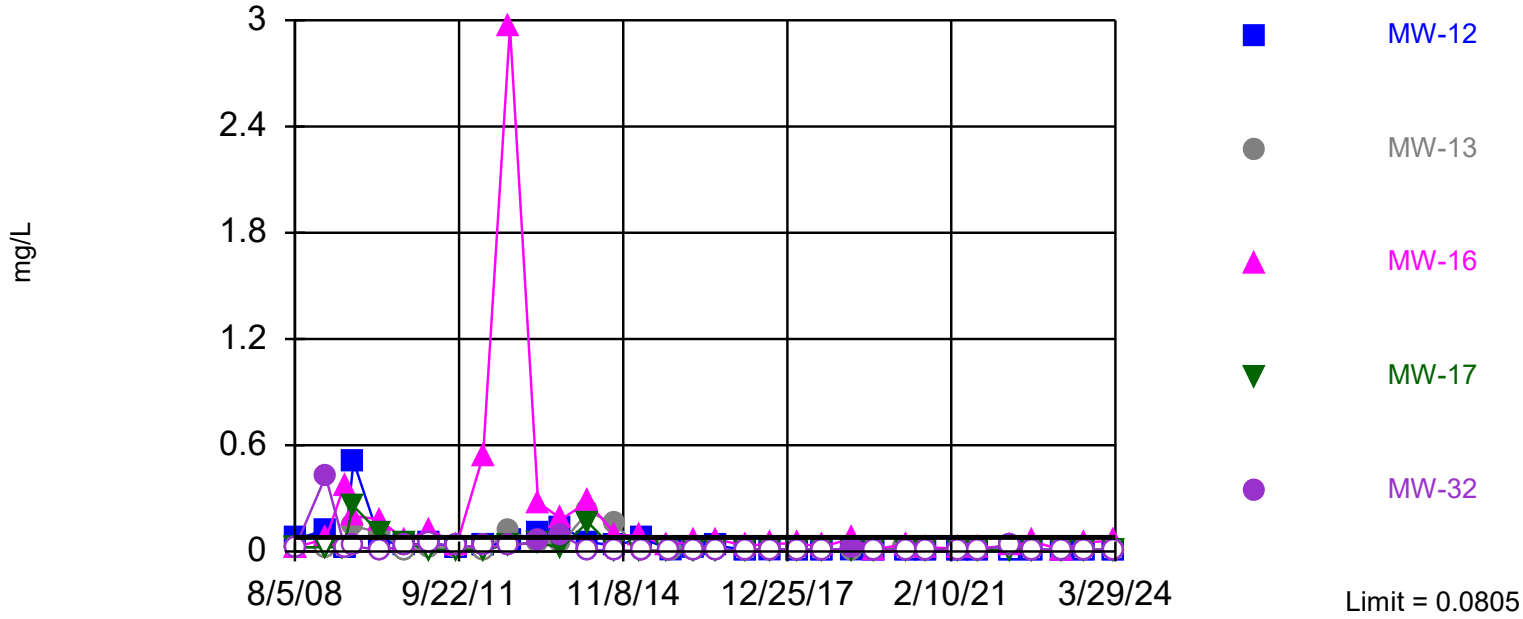
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 86.54% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Zinc Analysis Run 5/22/2024 12:28 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Deeper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Delineation Monitoring Locations - Assessment Constituents													
Antimony (mg/L)	MW-109B	0.0101	3/28/2024	0.001ND	No	49	n/a	n/a	96	n/a	n/a	0.0007437	NP Inter (NDs) 1 of 2
Barium (mg/L)	MW-109B	0.138	3/28/2024	0.666	Yes	47	n/a	n/a	0	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Cadmium (mg/L)	MW-109B	0.000824	3/28/2024	0.0001ND	No	48	n/a	n/a	98	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-109B	0.0108	3/28/2024	0.0025ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-109B	0.00735	3/28/2024	0.0378	Yes	38	n/a	n/a	50	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Zinc (mg/L)	MW-109B	0.0366	3/28/2024	0.01ND	No	51	n/a	n/a	90	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Corrective Action Monitoring Locations - Assessment Constituents													
Antimony (mg/L)	MW-14	0.0101	3/28/2024	0.001ND	No	49	n/a	n/a	96	n/a	n/a	0.0007437	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-33	0.0101	3/28/2024	0.001ND	No	49	n/a	n/a	96	n/a	n/a	0.0007437	NP Inter (NDs) 1 of 2
Barium (mg/L)	MW-14	0.138	3/28/2024	0.687	Yes	47	n/a	n/a	0	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-33	0.138	3/28/2024	0.517	Yes	47	n/a	n/a	0	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	MW-33	25.4	3/28/2024	5ND	No	51	n/a	n/a	92	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-14	0.000824	3/28/2024	0.0001ND	No	48	n/a	n/a	98	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-33	0.000824	3/28/2024	0.0001ND	No	48	n/a	n/a	98	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-14	0.0009034	3/28/2024	0.00126	Yes	38	-8.322	0.5549	16	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-33	0.0009034	3/28/2024	0.00127	Yes	38	-8.322	0.5549	16	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Copper (mg/L)	MW-14	0.0108	3/28/2024	0.0025ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-33	0.0108	3/28/2024	0.0025ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-14	0.00735	3/28/2024	0.0217	Yes	38	n/a	n/a	50	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Nickel (mg/L)	MW-33	0.00735	3/28/2024	0.00682	No	38	n/a	n/a	50	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Tin (mg/L)	MW-33	0.109	3/28/2024	0.0025ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-14	0.0366	3/28/2024	0.01ND	No	51	n/a	n/a	90	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-33	0.0366	3/28/2024	0.01ND	No	51	n/a	n/a	90	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2

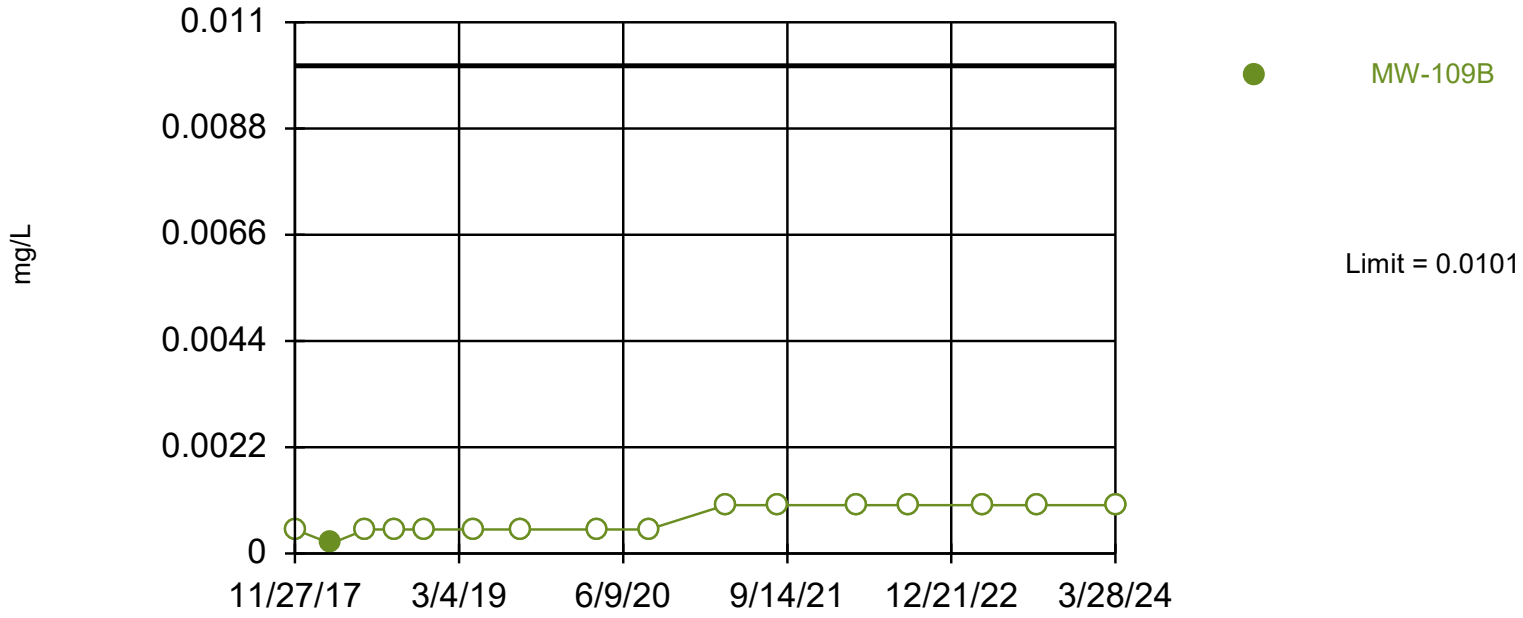
[1] Interwell prediction limit data consists of the detected Appendix I and II parameters in the combined MW-38 and MW-101B data set. Note that background data set adjustments were incorporated in accordance with Section 3.1 of the Spring 2024 Statistical Evaluation memo.

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 49 background values. 95.92% NDs. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2).

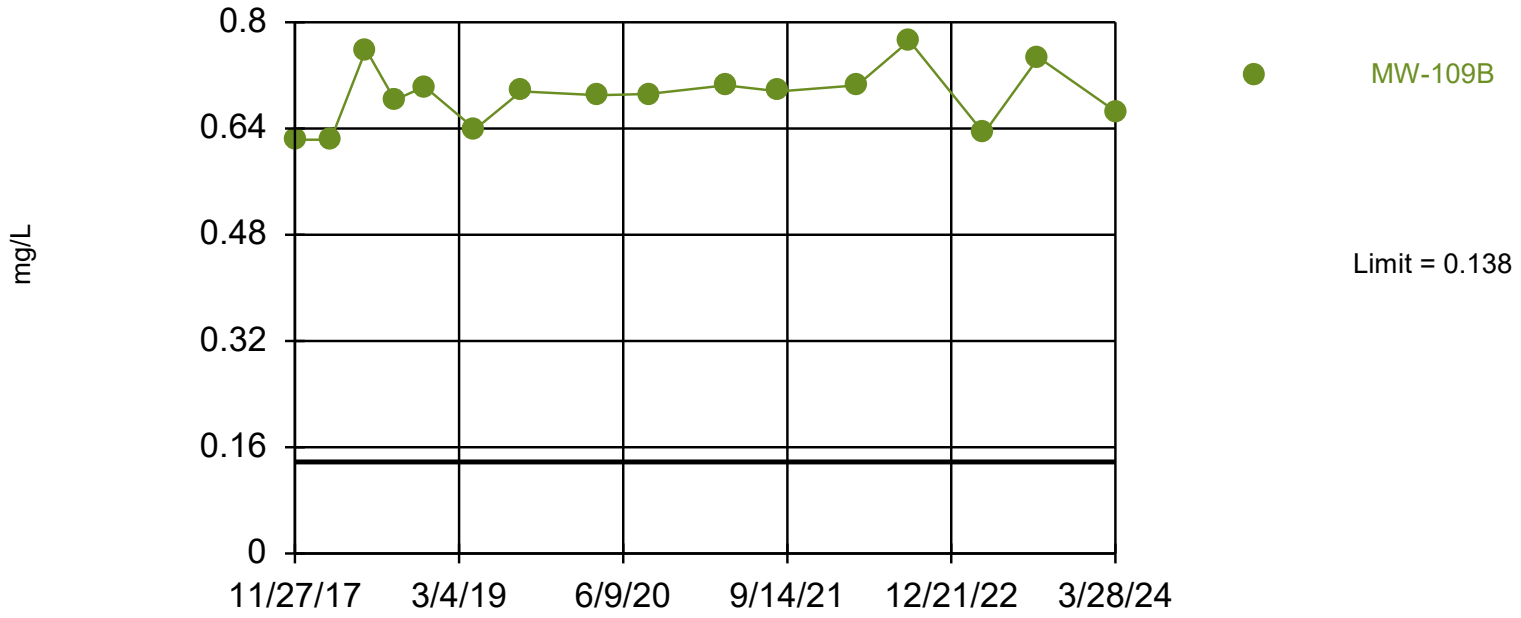
Constituent: Antimony Analysis Run 5/22/2024 1:05 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Exceeds Limit: MW-109B

Prediction Limit - Delineation Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. Annual per-constituent alpha = 0.03204. Individual comparison alpha = 0.0008139 (1 of 2).

Constituent: Barium Analysis Run 5/22/2024 1:05 PM

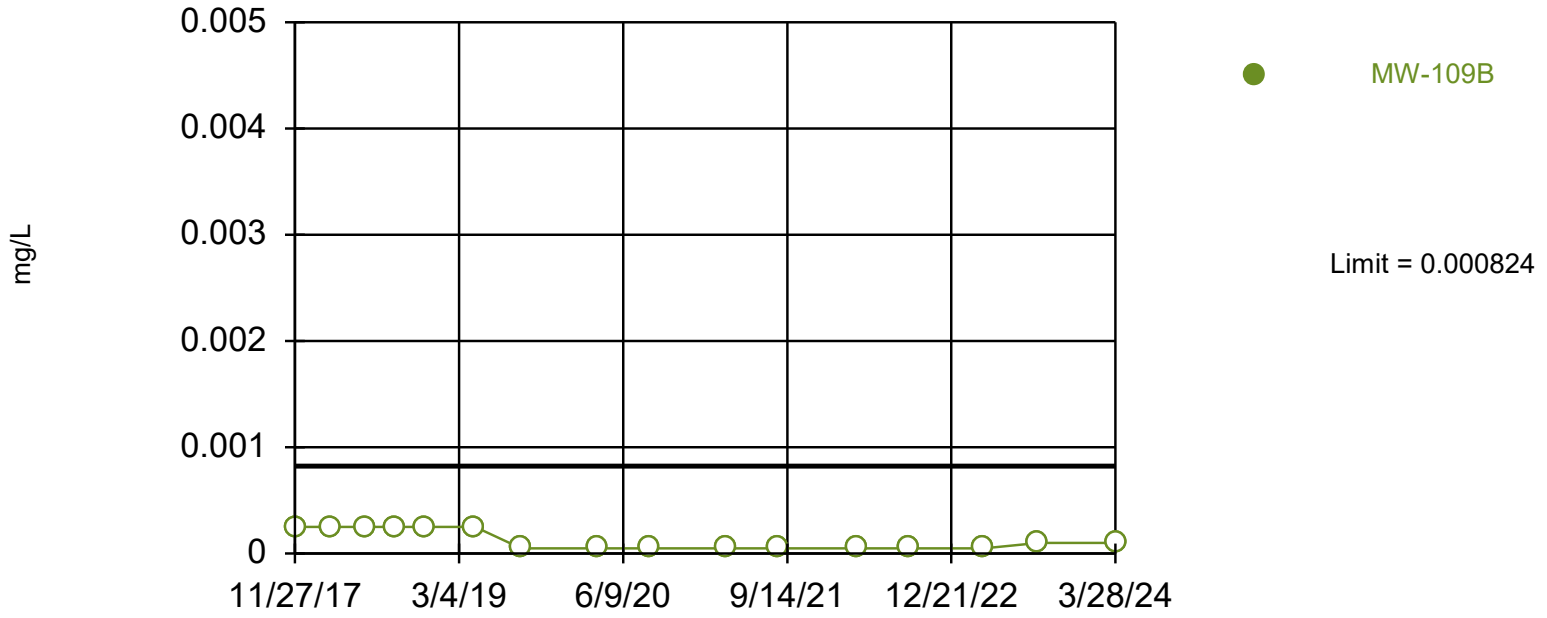
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 48 background values. 97.92% NDs. Annual per-constituent alpha = 0.03068. Individual comparison alpha = 0.0007788 (1 of 2).

Constituent: Cadmium Analysis Run 5/22/2024 1:05 PM

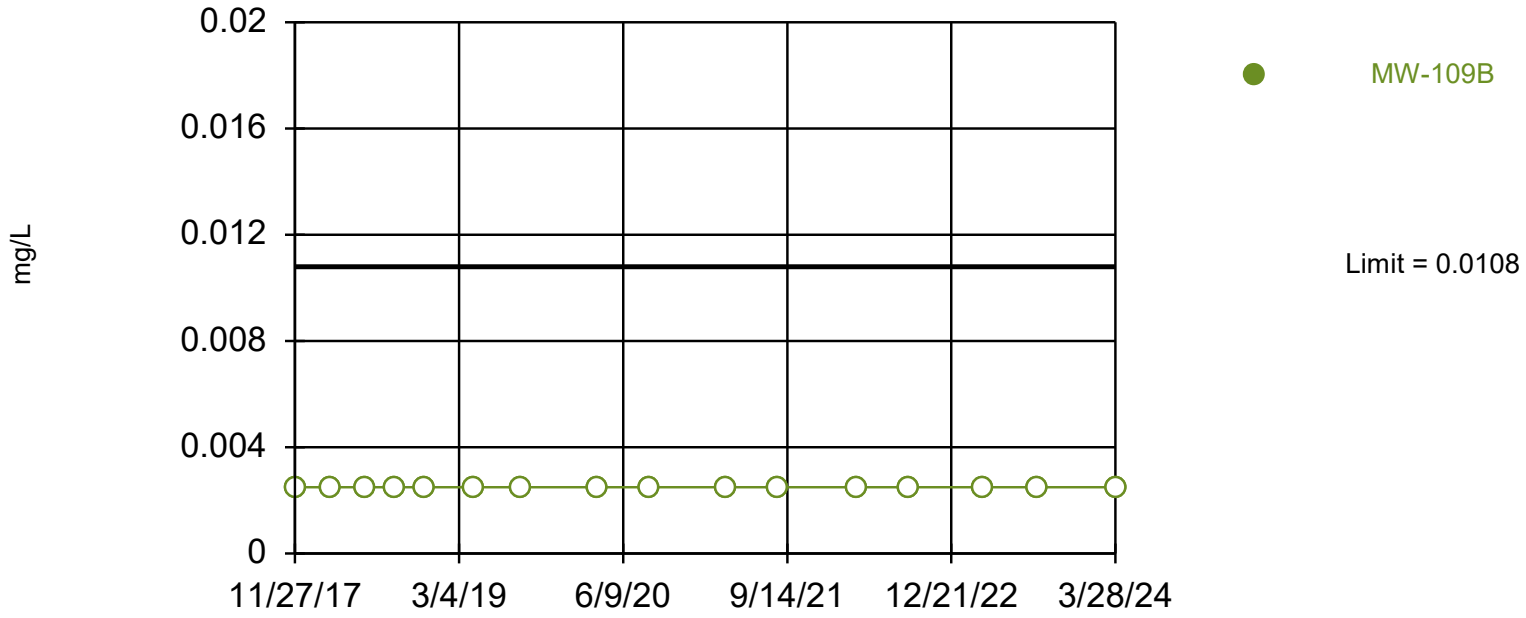
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 50 background values. 98% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2).

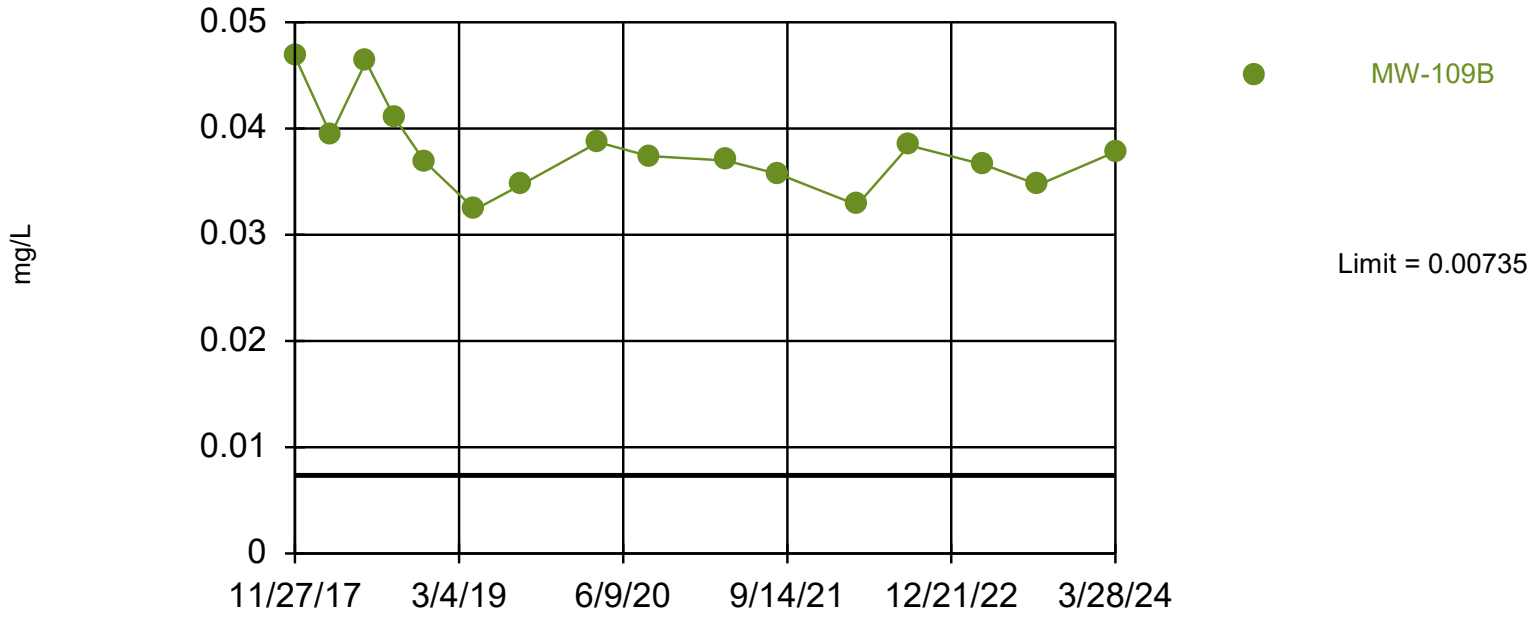
Constituent: Copper Analysis Run 5/22/2024 1:05 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Exceeds Limit: MW-109B

Prediction Limit - Delineation Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 50% NDs. Annual per-constituent alpha = 0.04586. Individual comparison alpha = 0.001173 (1 of 2).

Constituent: Nickel Analysis Run 5/22/2024 1:05 PM

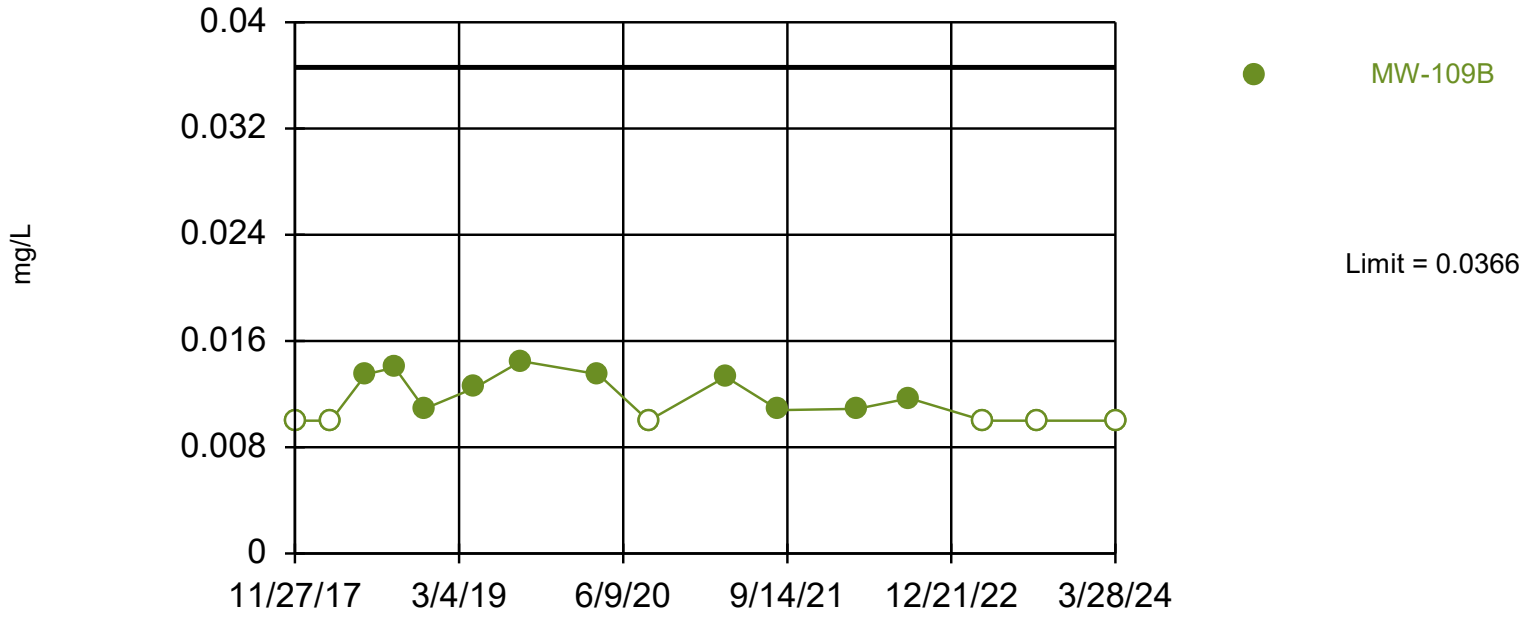
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 90.2% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Zinc Analysis Run 5/22/2024 1:05 PM

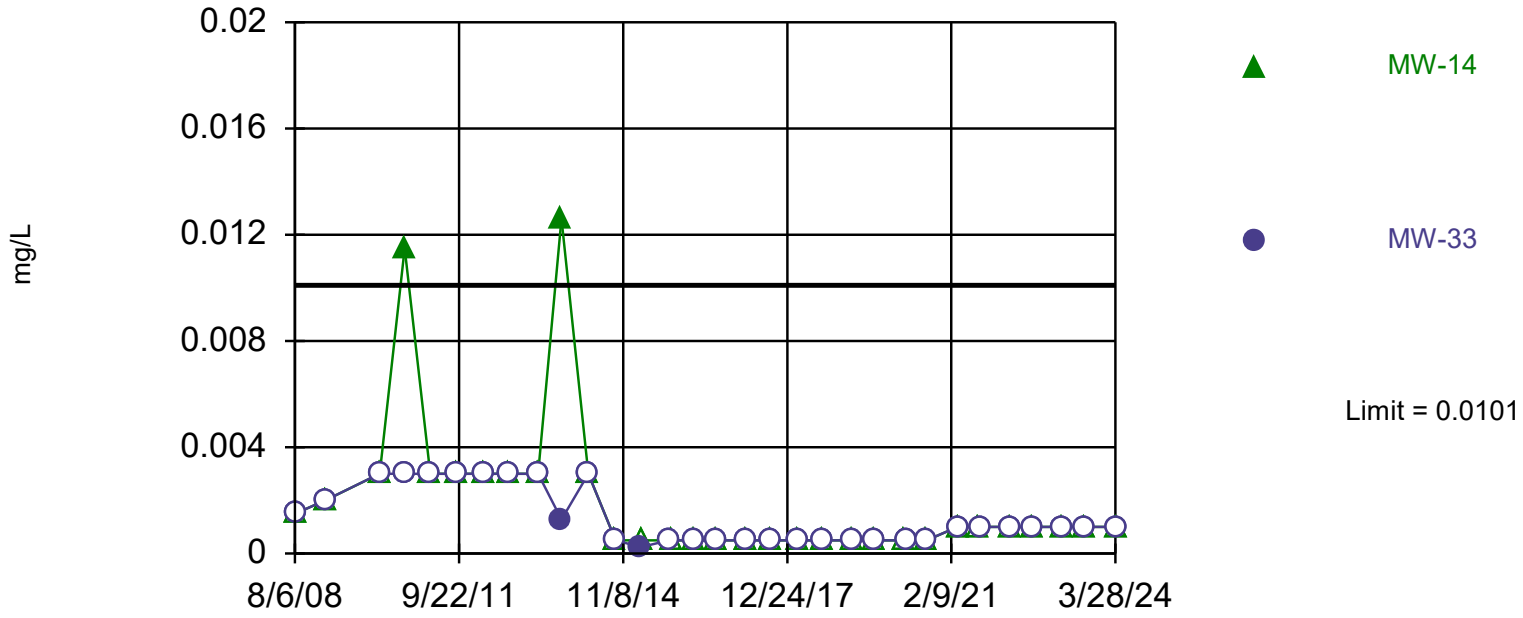
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 49 background values. 95.92% NDs. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2).

Constituent: Antimony Analysis Run 5/22/2024 1:03 PM

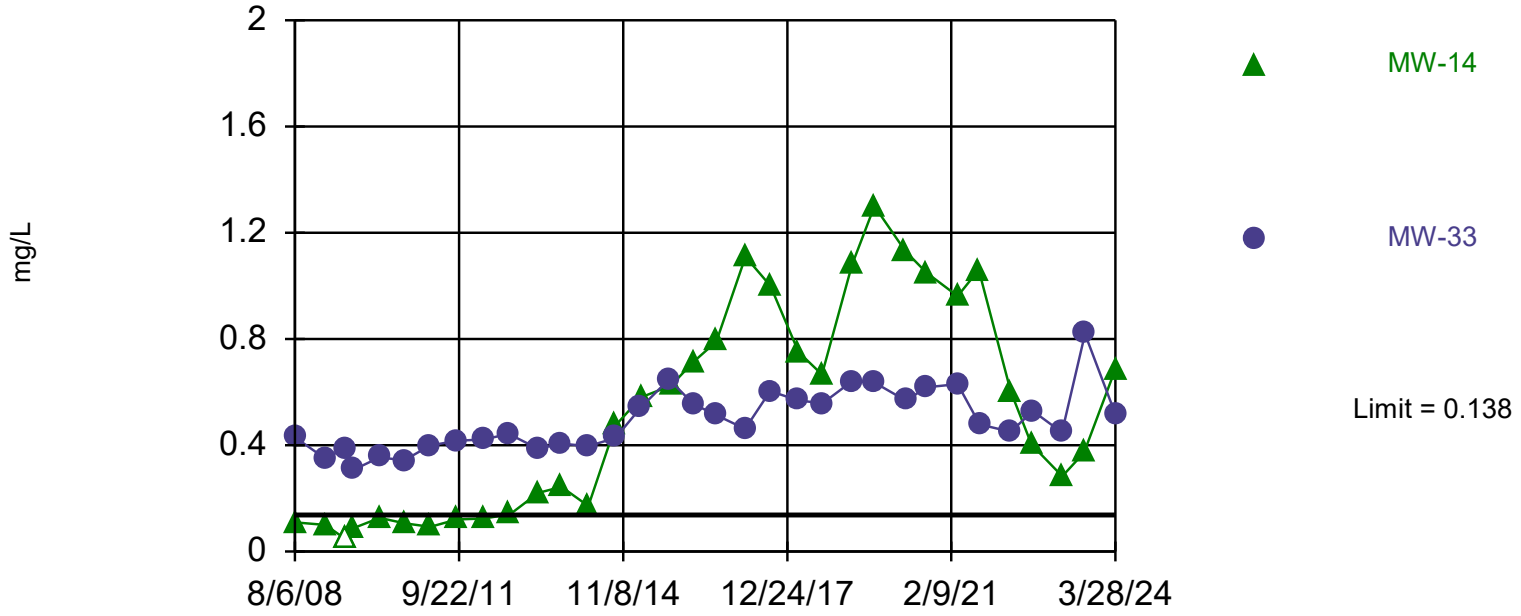
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-14, MW-33

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. Annual per-constituent alpha = 0.03204. Individual comparison alpha = 0.0008139 (1 of 2).

Constituent: Barium Analysis Run 5/22/2024 1:03 PM

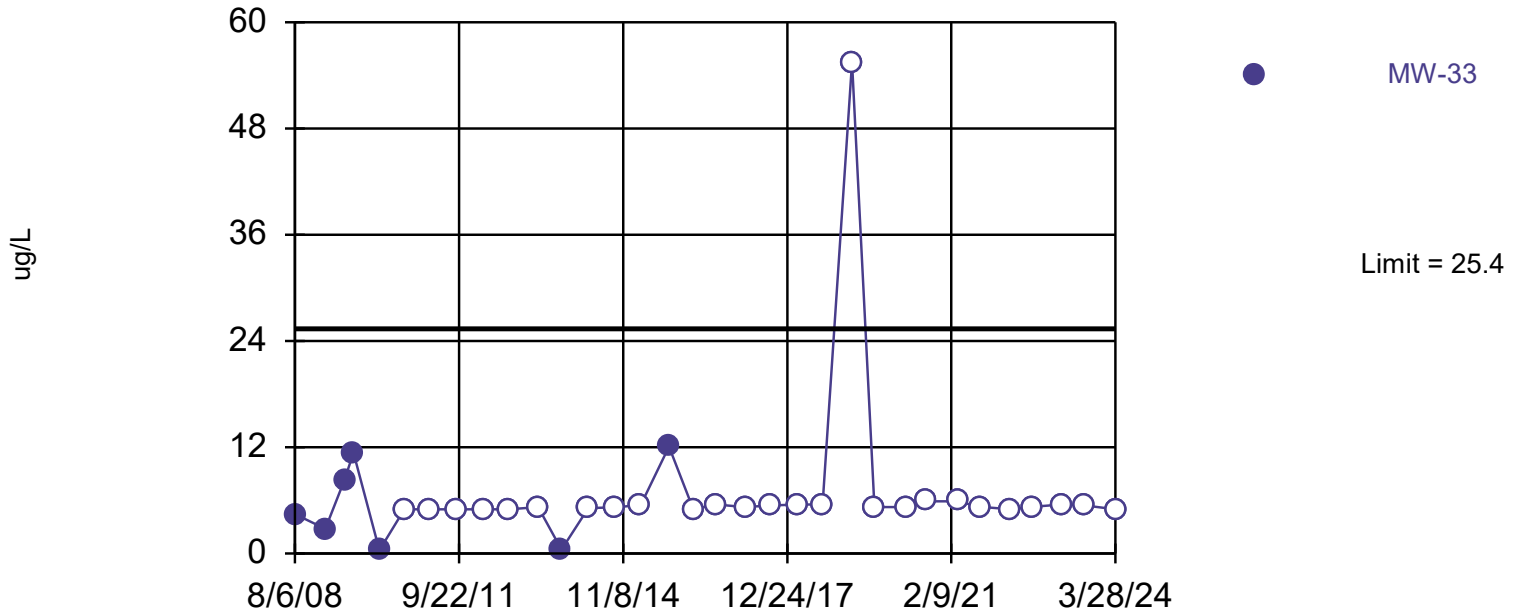
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring
Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 92.16% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: bis[2-Ethylhexyl]phthalate Analysis Run 5/22/2024 1:03 PM

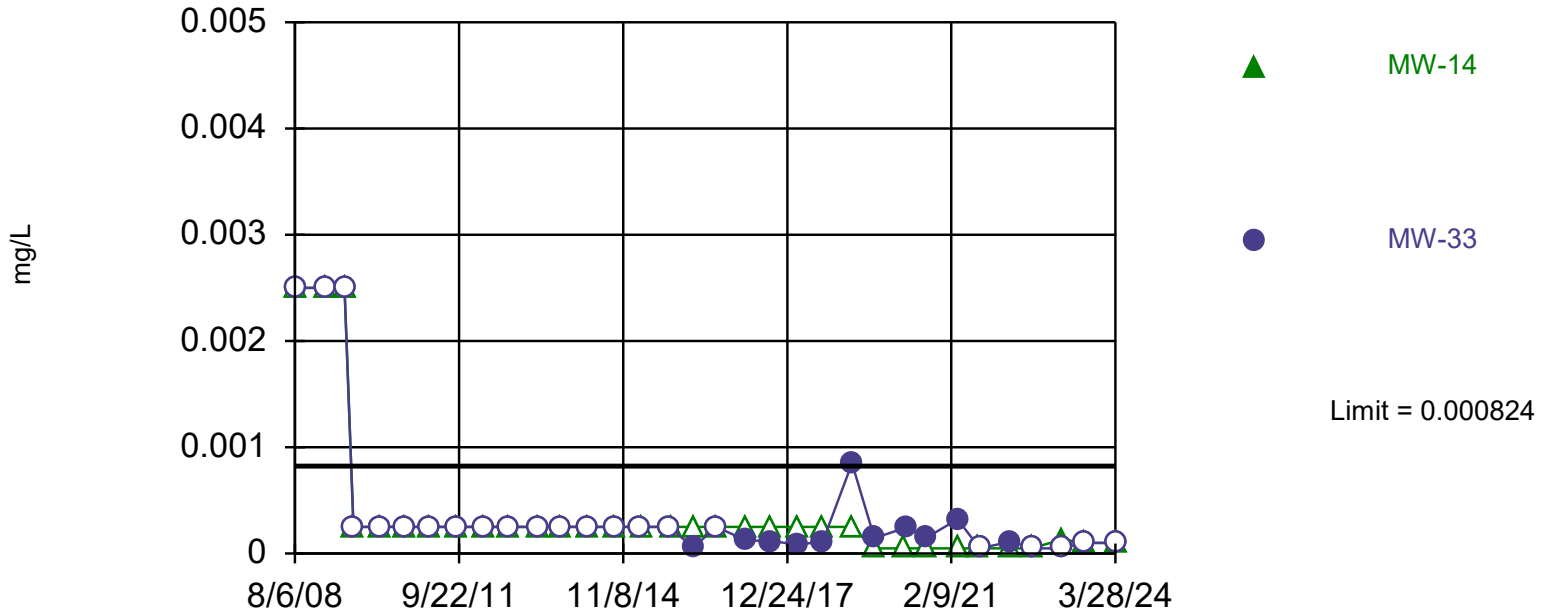
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 48 background values. 97.92% NDs. Annual per-constituent alpha = 0.03068. Individual comparison alpha = 0.0007788 (1 of 2).

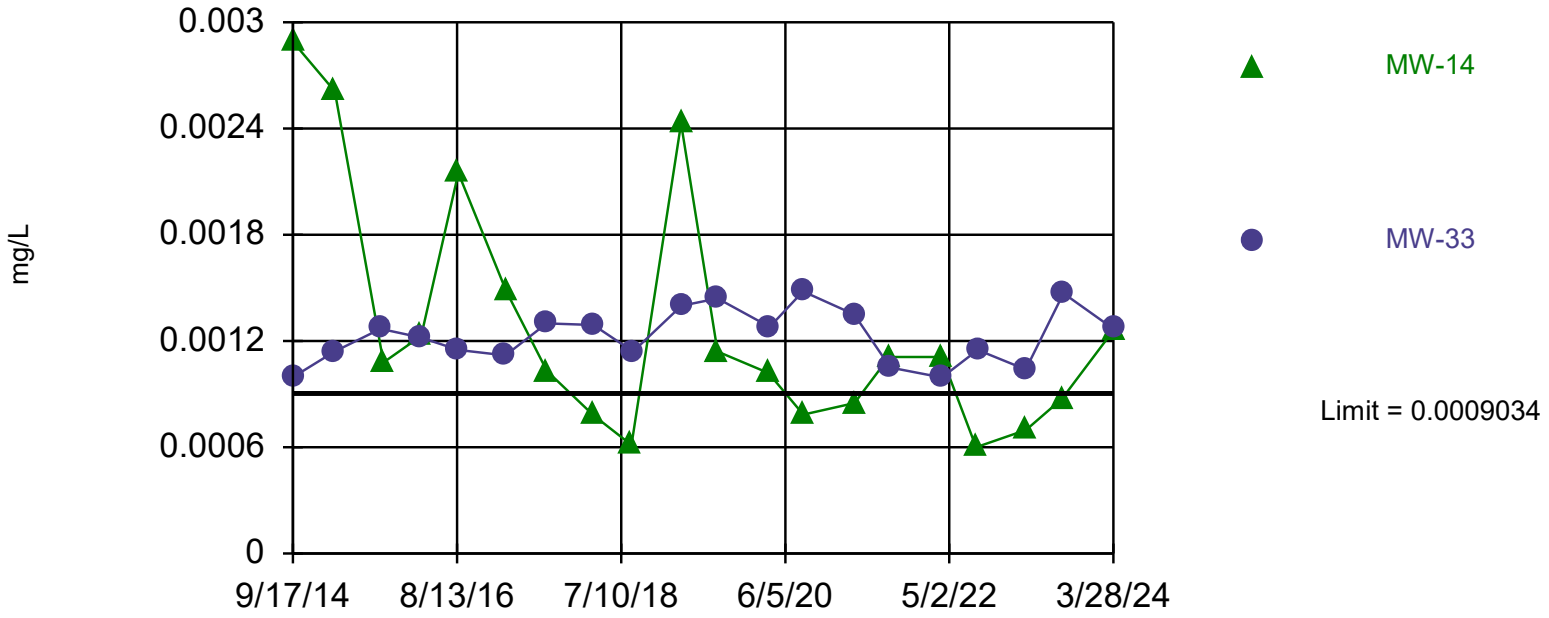
Constituent: Cadmium Analysis Run 5/22/2024 1:03 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Exceeds Limit: MW-14, MW-33

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-8.322, Std. Dev.=0.5549, n=38, 15.79% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9473, critical = 0.916. Kappa = 2.366 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Cobalt Analysis Run 5/22/2024 1:03 PM

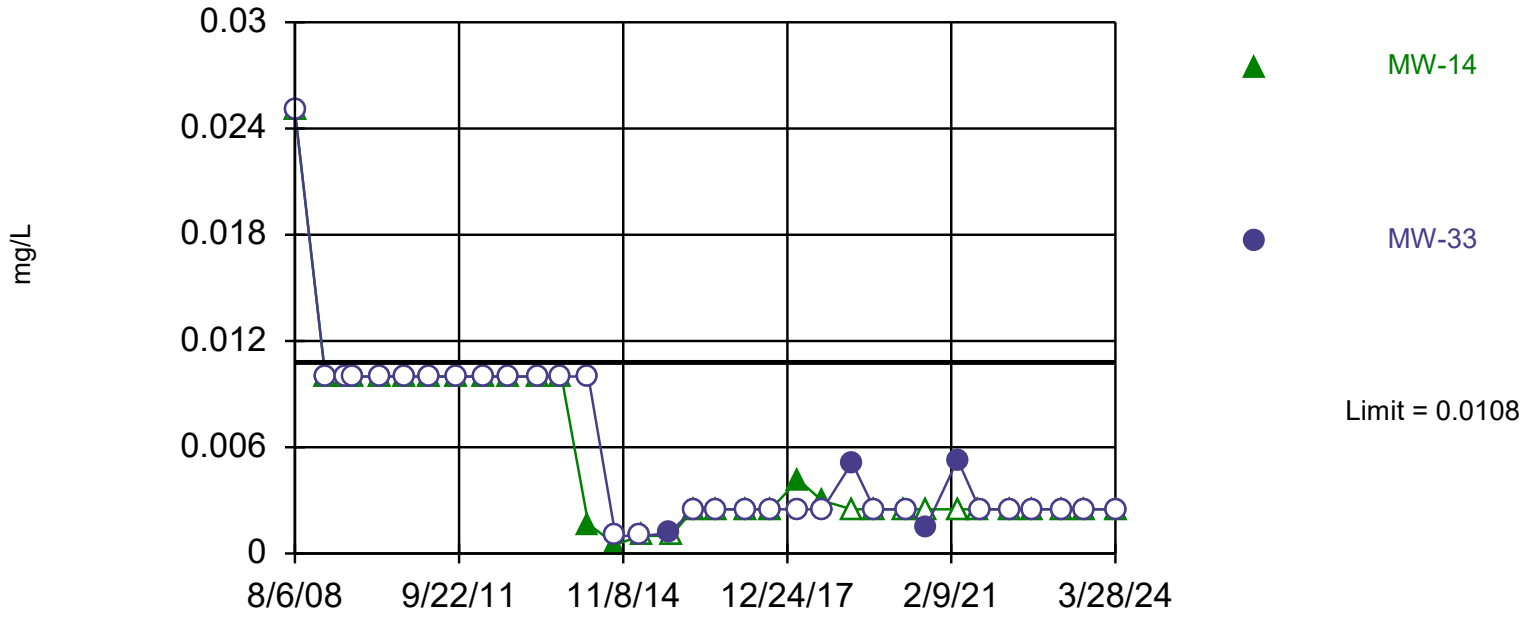
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 50 background values. 98% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2).

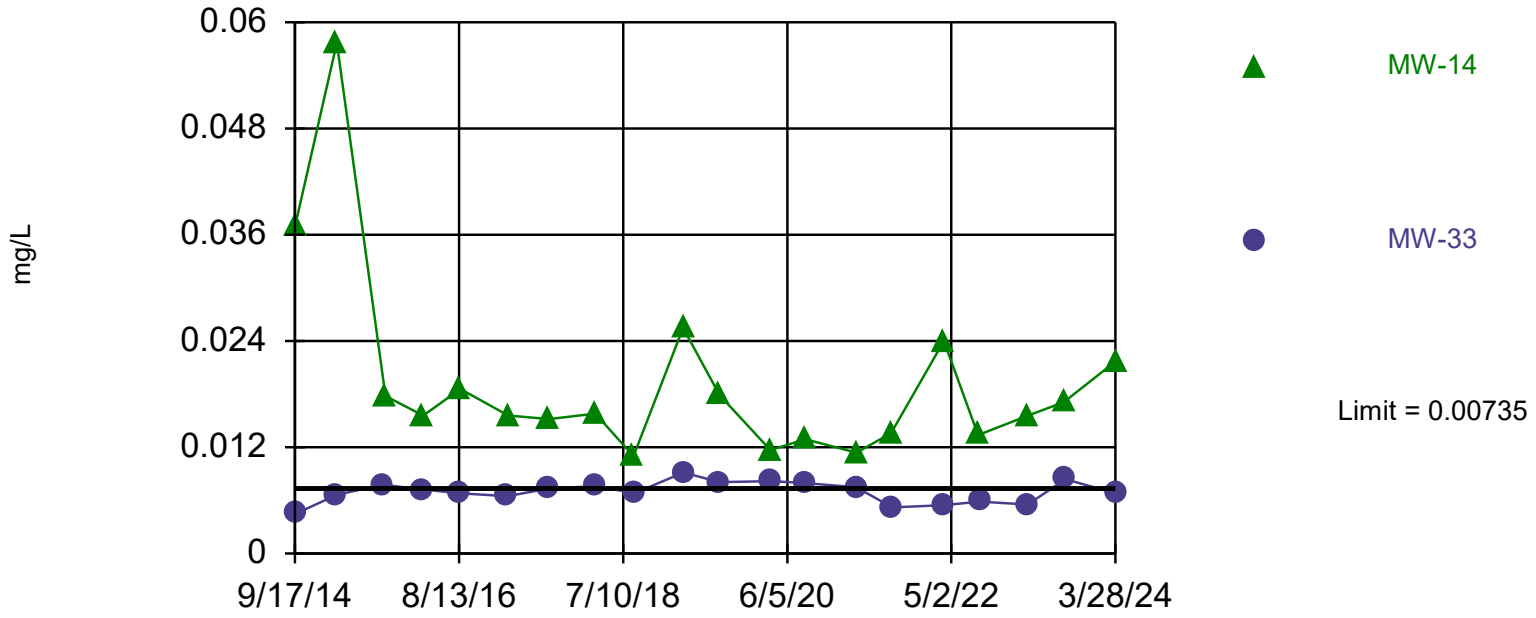
Constituent: Copper Analysis Run 5/22/2024 1:03 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Exceeds Limit: MW-14

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 50% NDs. Annual per-constituent alpha = 0.04586. Individual comparison alpha = 0.001173 (1 of 2).

Constituent: Nickel Analysis Run 5/22/2024 1:03 PM

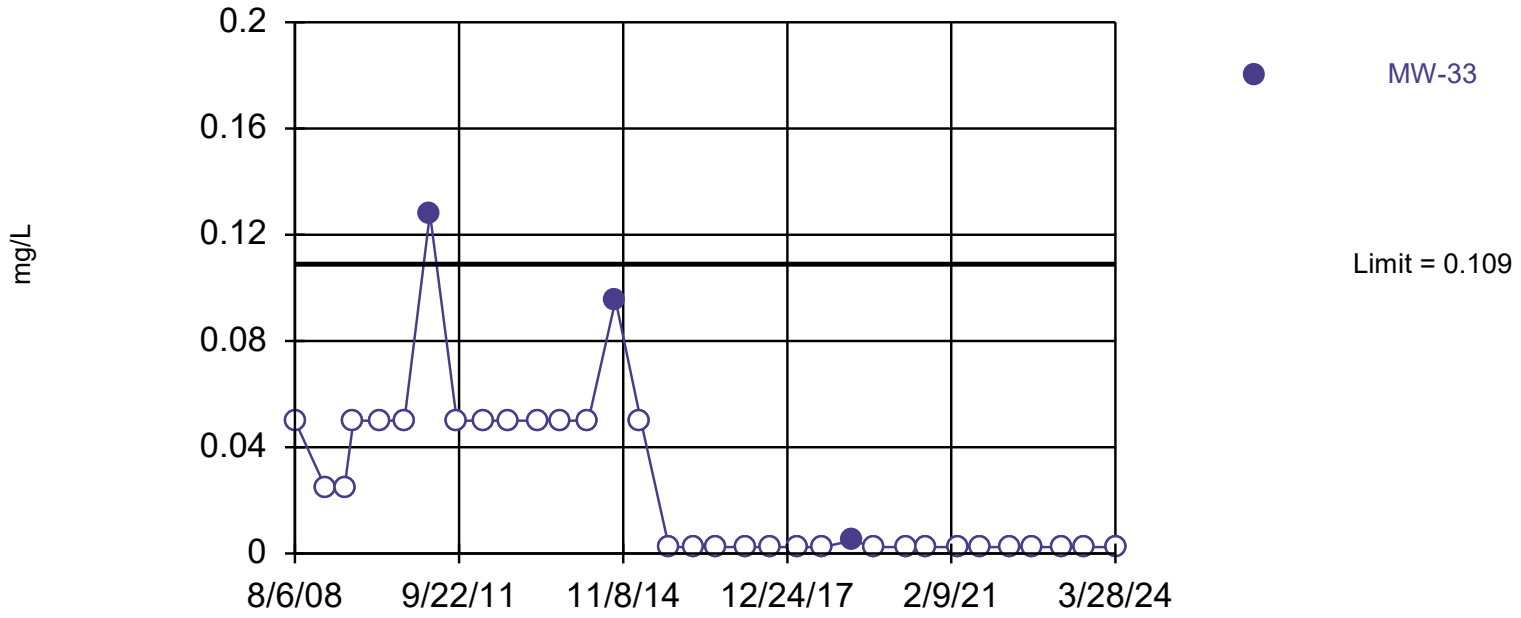
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 96.08% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Tin Analysis Run 5/22/2024 1:03 PM

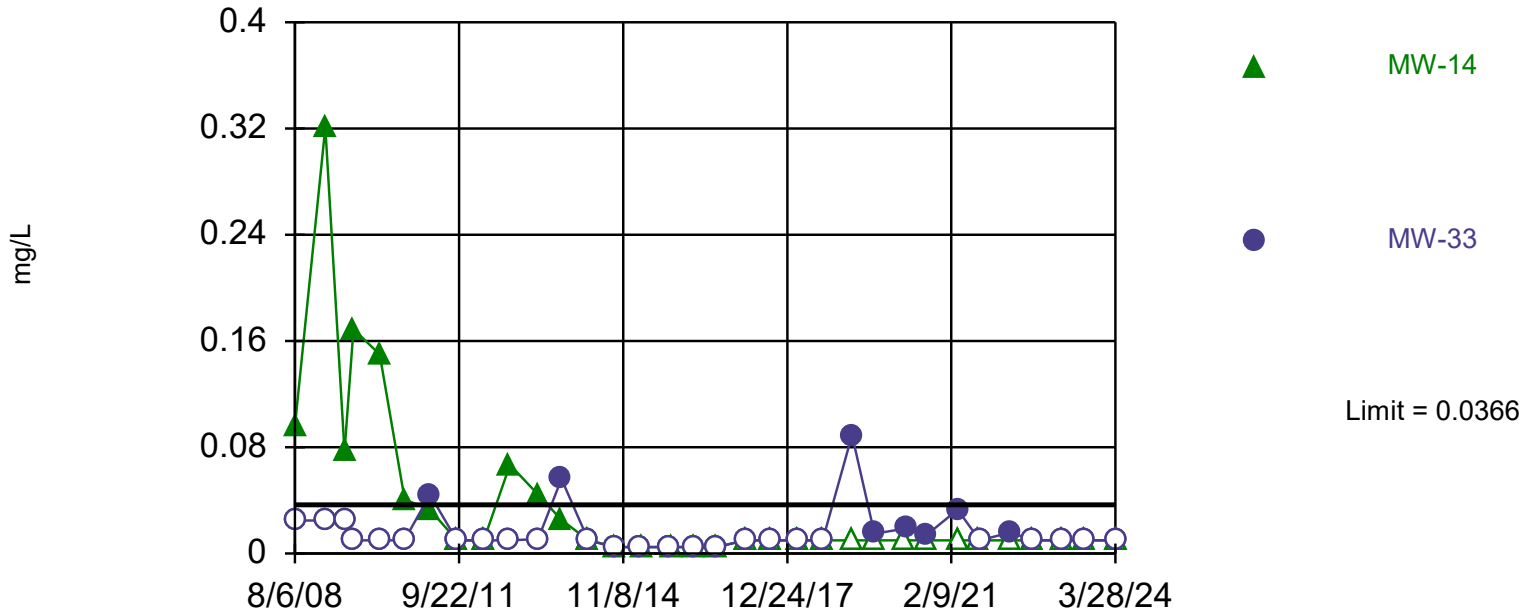
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 90.2% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Zinc Analysis Run 5/22/2024 1:03 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Attachment 3

Sanitas Report Output for Double Quantification Rule Evaluations

Data Screening - Corrective Action Monitoring
Assessment Constituents

A listing of detects for 209 constituents in MW-12, MW-13, MW-16, MW-17, and MW-32 in March 2024:

1,1-Dichloroethane, MW-12, 3/28/2024: 3.39 ug/L
1,2-Dichlorobenzene, MW-13, 3/28/2024: 2.51 ug/L
1,2-Dichlorobenzene, MW-16, 3/29/2024: 1.13 ug/L
1,4-Dichlorobenzene, MW-12, 3/28/2024: 1.2 ug/L
1,4-Dichlorobenzene, MW-13, 3/28/2024: 15 ug/L
1,4-Dichlorobenzene, MW-16, 3/29/2024: 4.6 ug/L
1,4-Dichlorobenzene, MW-32, 3/28/2024: 2.94 ug/L
Benzene, MW-13, 3/28/2024: 3.14 ug/L
Benzene, MW-32, 3/28/2024: 1 ug/L
Chlorobenzene, MW-13, 3/28/2024: 3.94 ug/L
Chlorobenzene, MW-16, 3/29/2024: 2.12 ug/L
Chlorobenzene, MW-32, 3/28/2024: 14.7 ug/L
Chloroethane, MW-13, 3/28/2024: 4.87 ug/L
cis-1,2-Dichloroethene, MW-12, 3/28/2024: 4.87 ug/L
Thallium, MW-12, 3/28/2024: 0.0038 mg/L

A listing of detects for 207 constituents in MW-109B in March 2024:

1,4-Dichlorobenzene, MW-109B, 3/28/2024: 1.79 ug/L
Chlorobenzene, MW-109B, 3/28/2024: 8.2 ug/L

A listing of detects for 208 constituents in MW-14 and MW-33 in March 2024:

1,2-Dichlorobenzene, MW-14, 3/28/2024: 1.96 ug/L
1,4-Dichlorobenzene, MW-14, 3/28/2024: 12.1 ug/L
Benzene, MW-14, 3/28/2024: 2.55 ug/L
Chlorobenzene, MW-14, 3/28/2024: 3.2 ug/L
Chlorobenzene, MW-33, 3/28/2024: 5.33 ug/L

Attachment 4

Sanitas Report Output for Confidence Interval Calculations
Assessment Mode

Upper Bedrock

Confidence Interval - Assessment Mode [1]

Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2]	Exceed	N	Mean	Standard Deviation	CV	a to Achieve 50% Power at R=1.5 [3,4]	a to Achieve 80% Power at R=2.0 [3,4]	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Corrective Action Monitoring Locations - Assessment Constituents																
1,1-Dichloroethane (ug/L)	MW-12	21.9	13.0	140	No	33	17.4	10.5	0.6	<0.01	<0.01	0	None	No	0.01	Param.
1,2-Dichlorobenzene (ug/L)	MW-13	3.0	2.2	600	No	33	2.6	0.9	0.3	<0.01	<0.01	3	None	No	0.01	Param.
1,2-Dichlorobenzene (ug/L)	MW-16	1.2	0.5	600	No	33	0.9	0.5	0.5	<0.01	<0.01	36	None	No	0.01	NP (normality)
1,4-Dichlorobenzene (ug/L)	MW-12	7.1	2.1	75	No	33	4.7	3.2	0.7	<0.01	<0.01	3	None	No	0.01	NP (normality)
1,4-Dichlorobenzene (ug/L)	MW-13	14.7	11.9	75	No	33	12.7	3.3	0.3	<0.01	<0.01	0	None	No	0.01	NP (normality)
1,4-Dichlorobenzene (ug/L)	MW-16	4.1	2.4	75	No	33	3.2	2.1	0.6	<0.01	<0.01	15	Kaplan-Meier	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-32	5.1	3.4	75	No	33	4.3	2.1	0.5	<0.01	<0.01	9	None	No	0.01	Param.
Barium (mg/L)	MW-12	0.36	0.16	2	No	33	0.26	0.12	0.5	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-13	0.79	0.55	2	No	33	0.67	0.28	0.4	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-17	0.25	0.13	2	No	33	0.20	0.11	0.5	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-32	0.88	0.72	2	No	33	0.77	0.22	0.3	<0.01	<0.01	0	None	No	0.01	NP (normality)
Benzene (ug/L)	MW-13	4.85	3.87	5	No	33	4.36	1.15	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Benzene (ug/L)	MW-32	2.61	1.52	5	No	33	2.06	1.28	0.6	<0.01	<0.01	6	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-13	5.3	4.2	100	No	33	4.8	1.3	0.3	<0.01	<0.01	3	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-16	2.1	1.4	100	No	33	1.7	0.8	0.5	<0.01	<0.01	9	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-32	11.6	8.9	100	No	33	10.2	3.2	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Chloroethane (ug/L)	MW-13	4.0	2.2	2800	No	33	3.6	2.2	0.6	<0.01	<0.01	18	None	No	0.01	NP (normality)
cis-1,2-Dichloroethene (ug/L)	MW-12	9.4	4.2	70	No	33	8.6	6.2	0.7	<0.01	<0.01	0	None	No	0.01	NP (normality)
Nickel (mg/L)	MW-12	0.075	0.064	0.1	No	19	0.070	0.010	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Nickel (mg/L)	MW-16	0.086	0.059	0.1	No	33	0.072	0.031	0.4	<0.01	<0.01	3	None	No	0.01	Param.
Thallium (mg/L)	MW-12	0.00410	0.00119	0.002	No	33	0.00340	0.00302	0.9	<0.01	<0.01	21	None	No	0.01	NP (normality)

[1] Under assessment mode, an SSL is indicated when the lower confidence limit exceeds the groundwater protection standard (compliance limit).

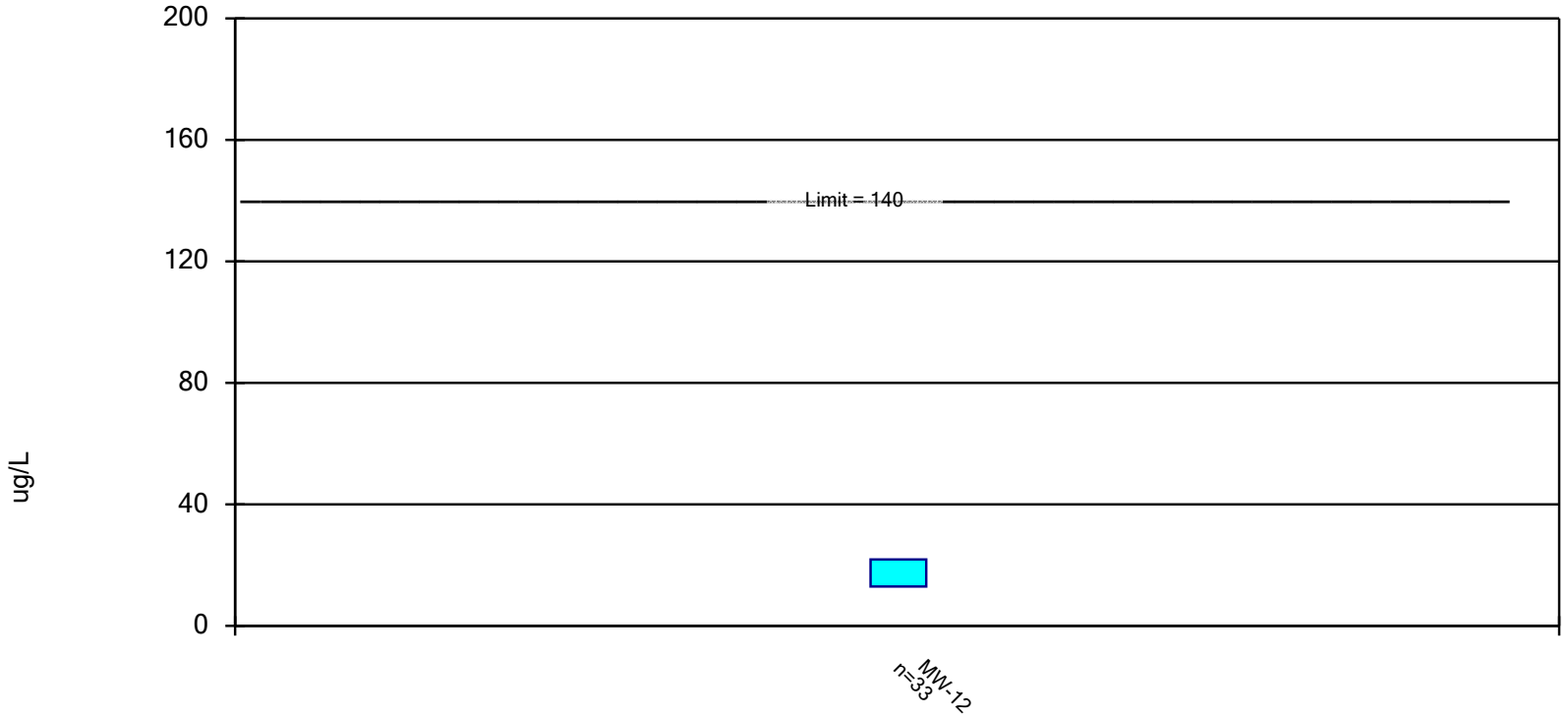
[2] Value is the 40 CFR Part 141 Safe Drinking Water Act MCL or the IAC 567 Chapter 137 Statewide Standard for a Protected Groundwater Source.

[3] For parametric confidence intervals: Except where otherwise indicated, based on Unified Guidance Equation 22.2, i.e., $\alpha \sim 1 - F_{T,n-1}\left(\frac{(R-1)\sqrt{n}}{R \cdot \widetilde{CV}} - t_{1-\beta,n-1}\right)$
where R is the desired risk ratio, *n* is the sample size, CV is the estimated sample coefficient of variation, $t_{1\text{-}b\ ,n\text{-}1}$ is the (1–b) Student's t-quantile with (n–1) degrees of freedom, and F is the cumulative (central) Student's t-distribution function.

[4] For non-parametric confidence intervals: Based on Unified Guidance Equation 22.1, i.e., $1 - \beta = G_{T,n-1}\left(t_{1-\alpha,n-1} \middle| \Delta = \sqrt{n}(R-1)\right)$
where R is the desired risk ratio, $t_{1\text{-}a\ ,n\text{-}1}$ is the (1–a) Student's t-quantile with (n–1) degrees of freedom and G represents the cumulative non-central t-distribution with (n–1) degrees of freedom and noncentrality parameter D.

Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

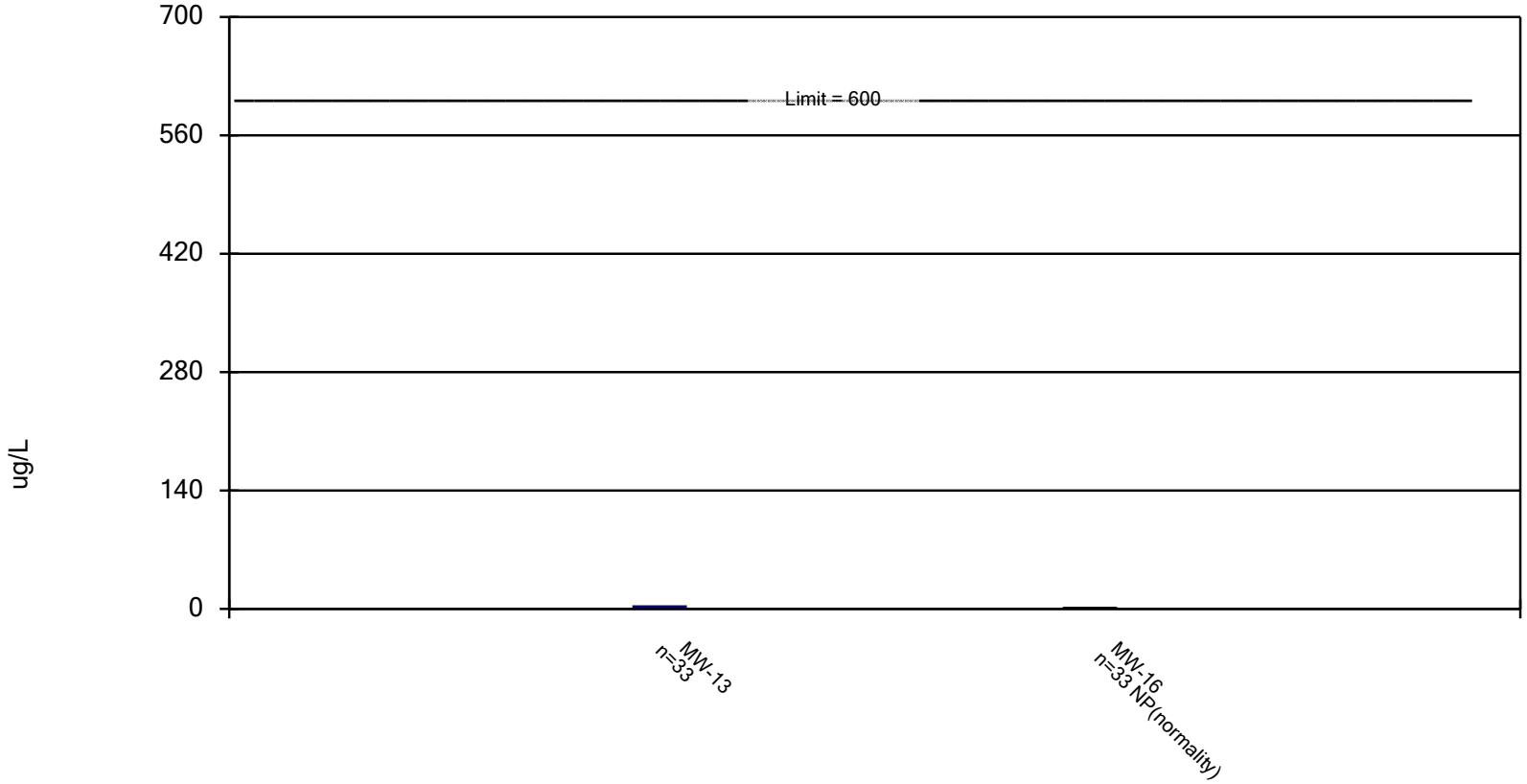


Constituent: 1,1-Dichloroethane Analysis Run 5/22/2024 1:55 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

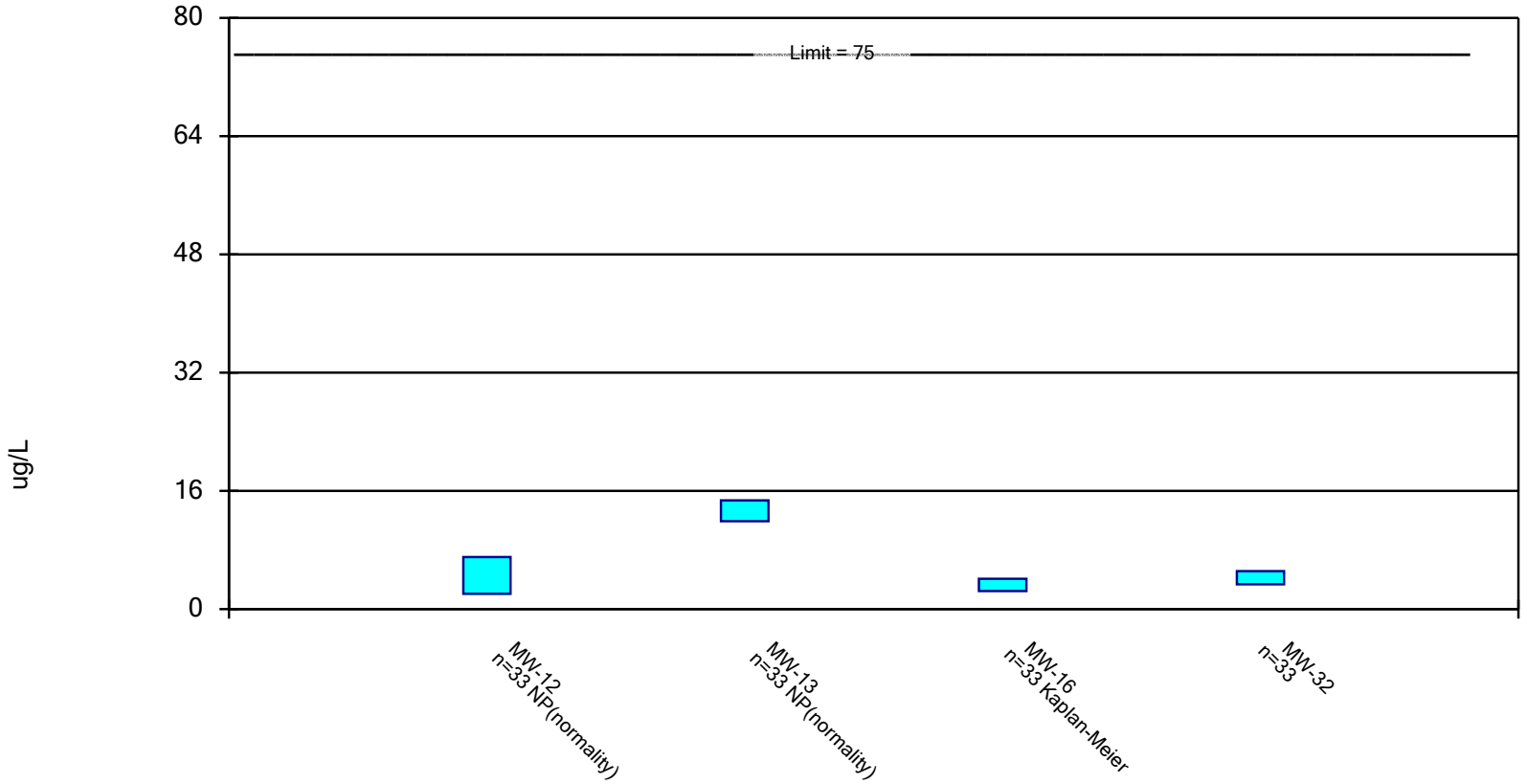


Constituent: 1,2-Dichlorobenzene Analysis Run 5/22/2024 1:55 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

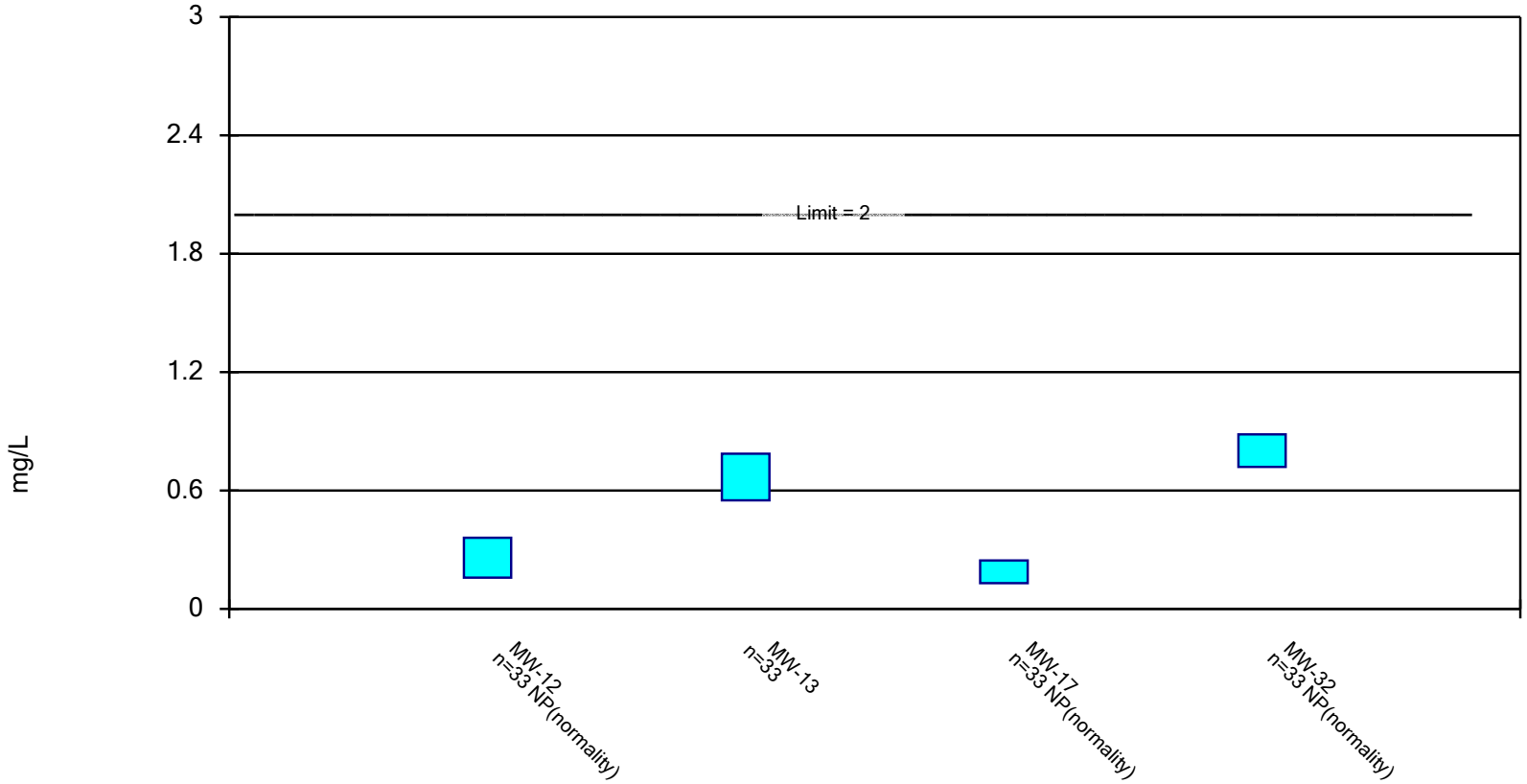


Constituent: 1,4-Dichlorobenzene Analysis Run 5/22/2024 1:55 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

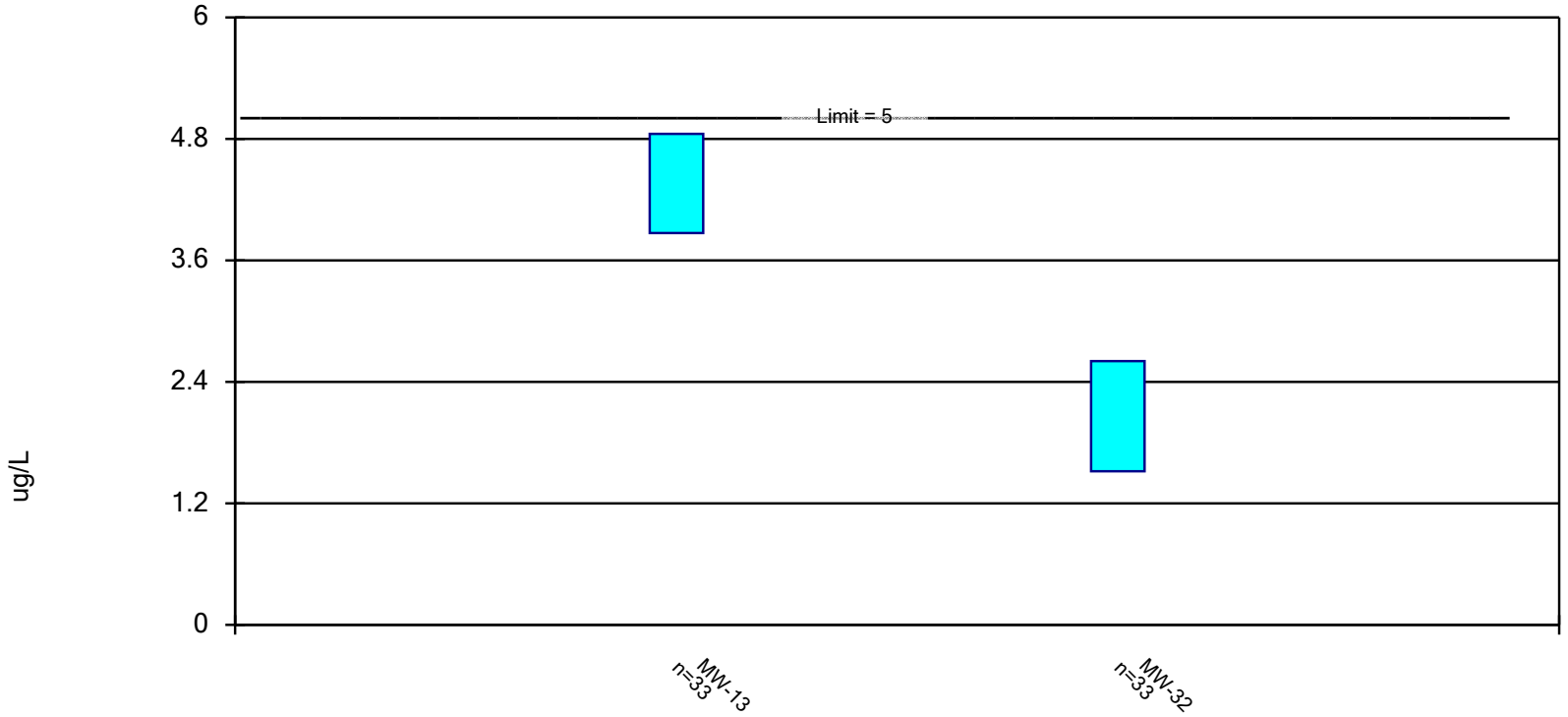


Constituent: Barium Analysis Run 5/22/2024 1:55 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

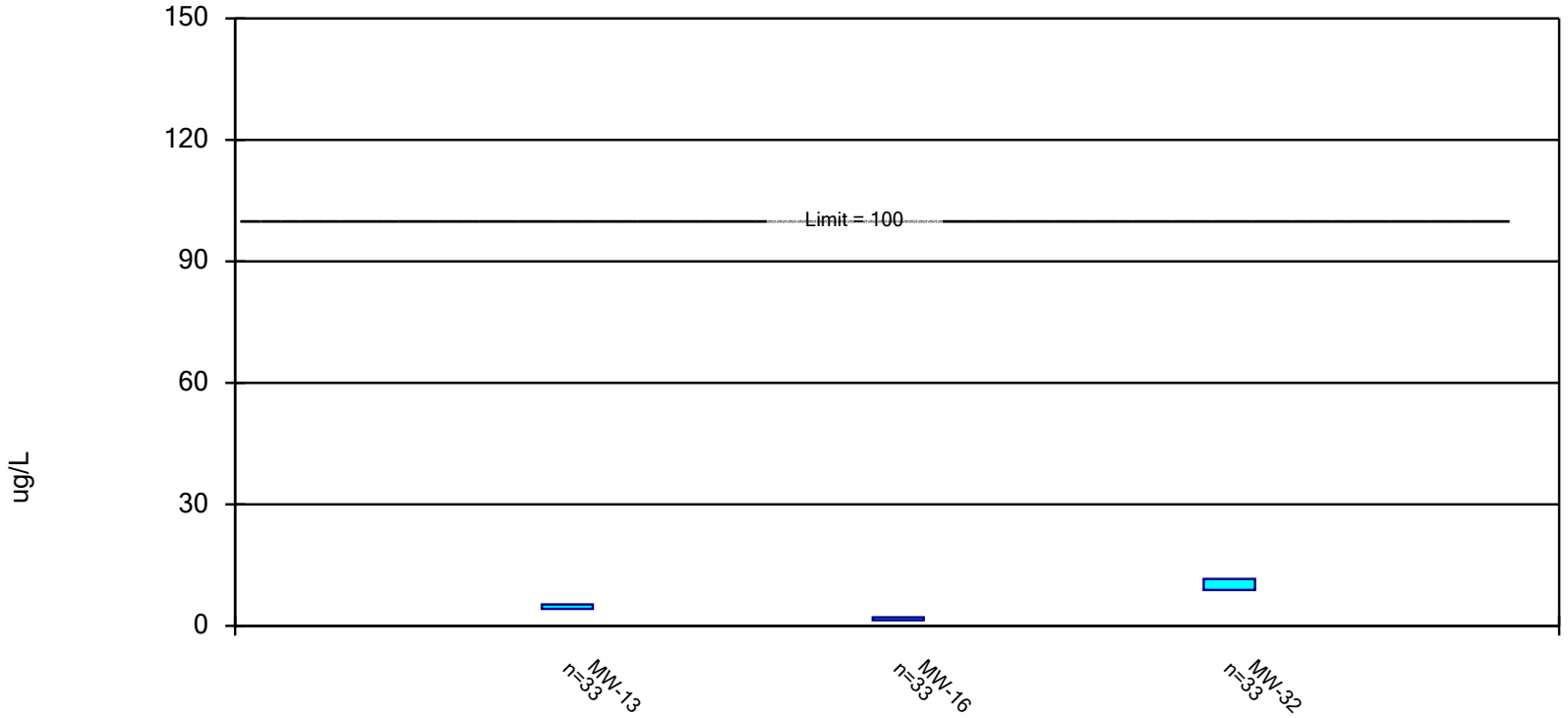


Constituent: Benzene Analysis Run 5/22/2024 1:55 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

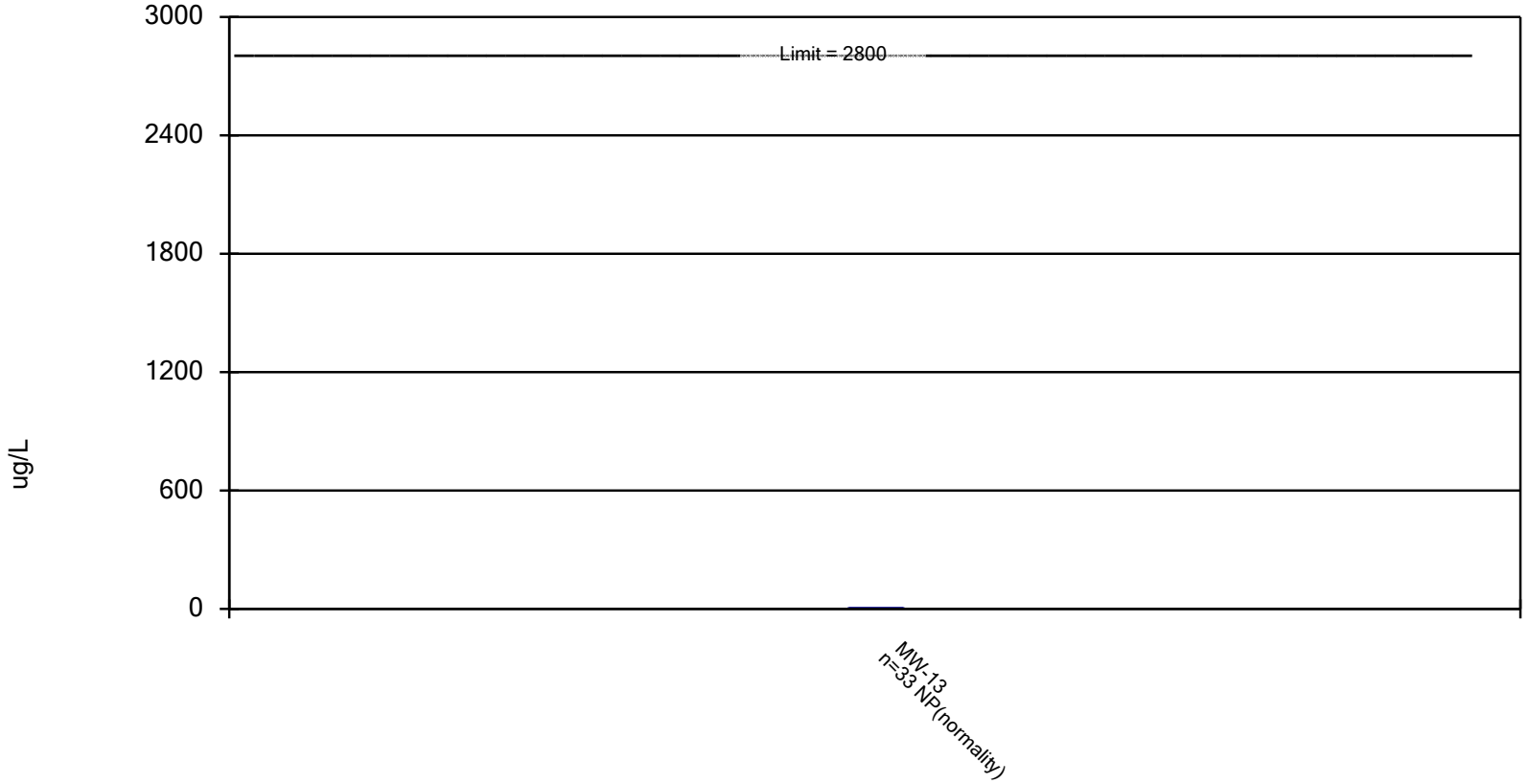


Constituent: Chlorobenzene Analysis Run 5/22/2024 1:55 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01.

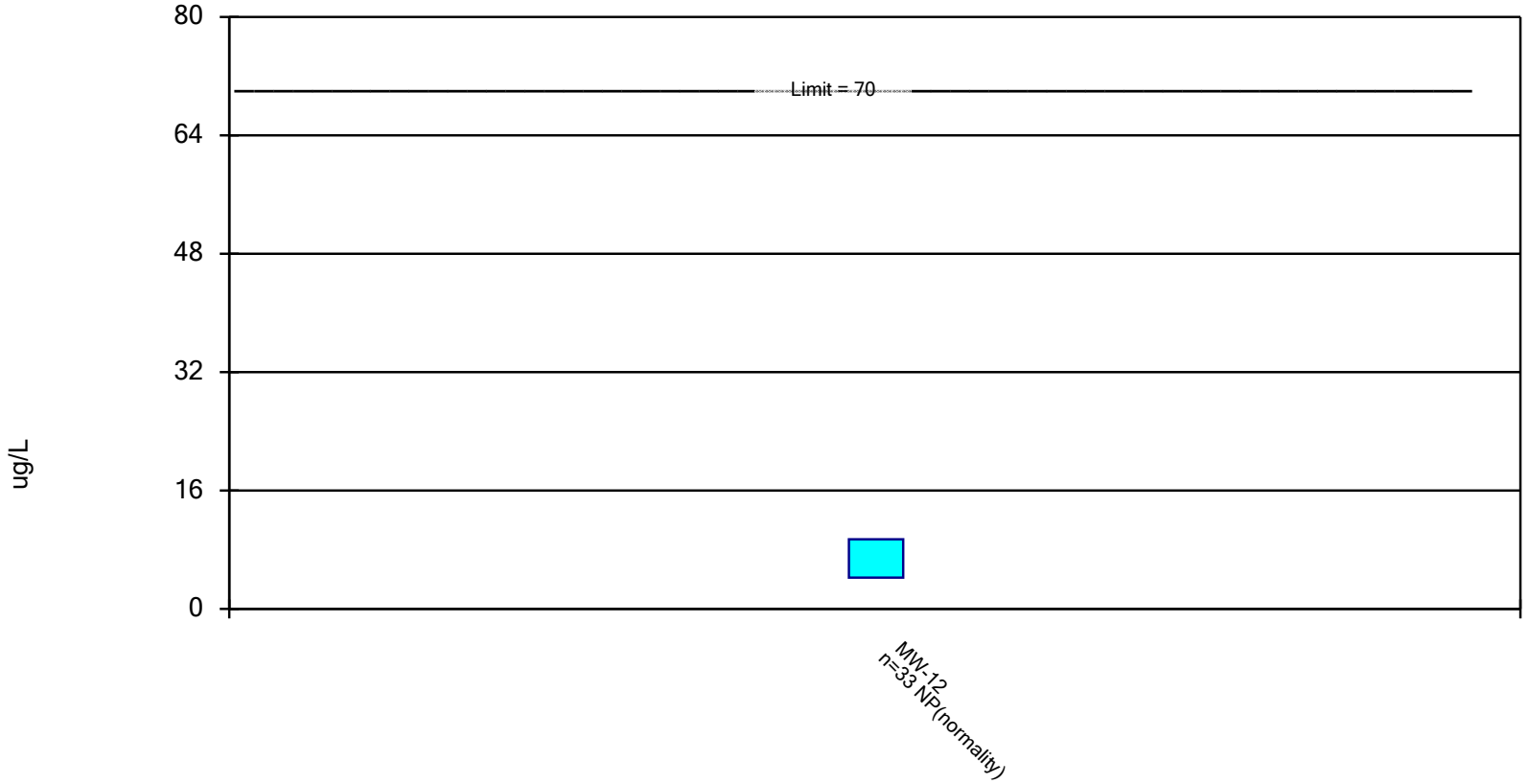


Constituent: Chloroethane Analysis Run 5/22/2024 1:55 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01.

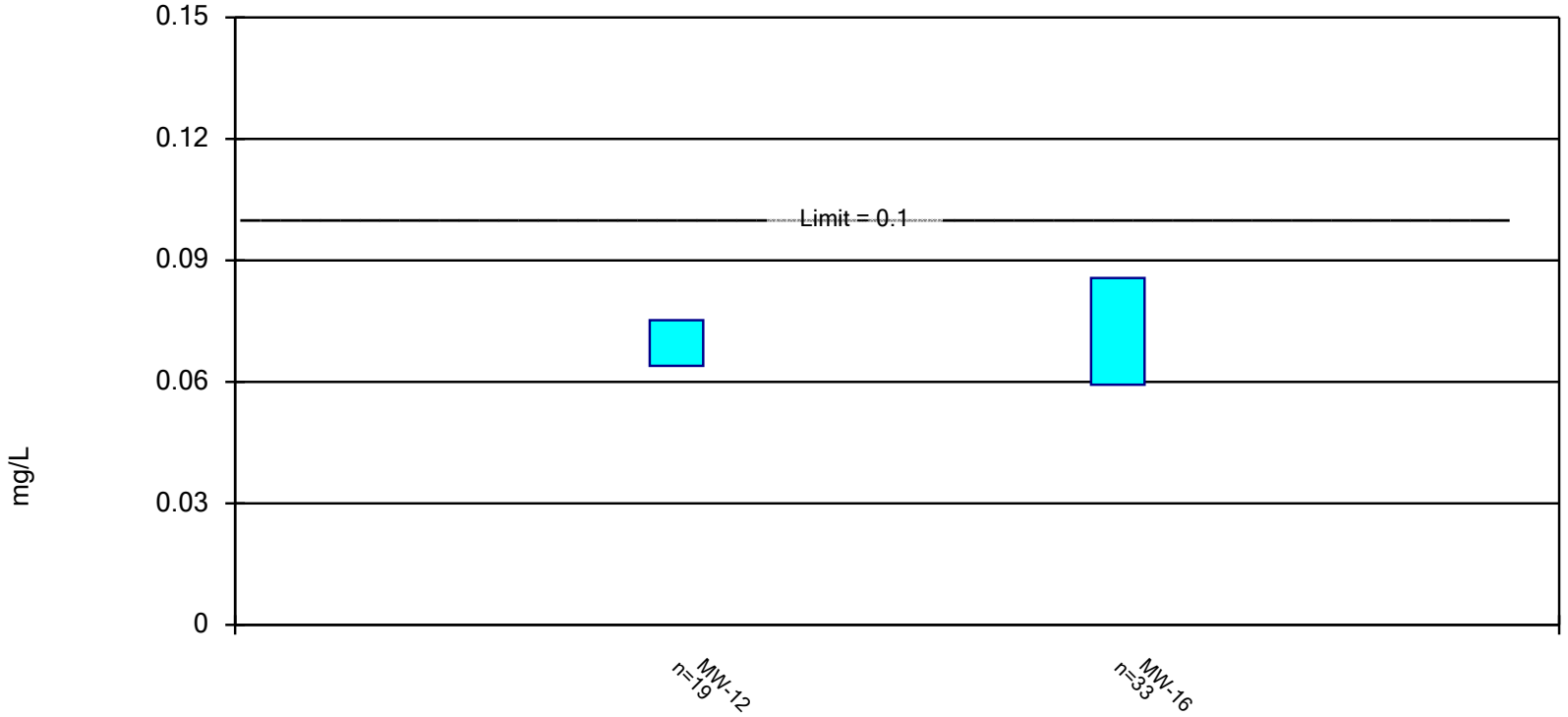


Constituent: cis-1,2-Dichloroethene Analysis Run 5/22/2024 1:55 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Consituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

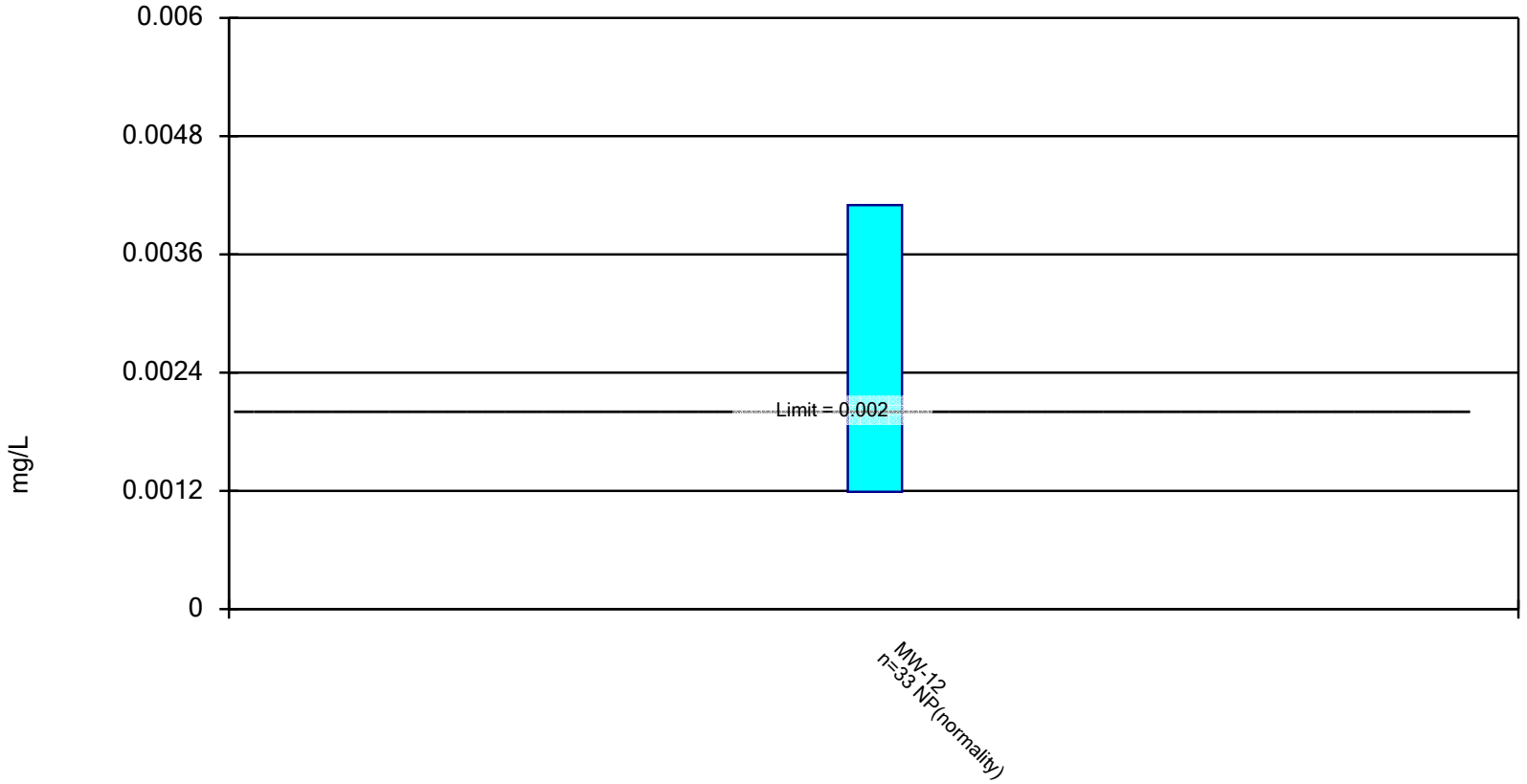


Constituent: Nickel Analysis Run 5/22/2024 2:45 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/22/2024 1:55 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Deeper Bedrock

Confidence Interval - Assessment Mode [1]

Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2]	Exceed	N	Mean	Standard Deviation	CV	a to Achieve 50% Power at R=1.5 [3,4]	a to Achieve 80% Power at R=2.0 [3,4]	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Delineation Monitoring Locations - Assessment Constituents																
1,4-Dichlorobenzene (ug/L)	MW-109B	1.8	0.9	75	No	16	1.3	0.5	0.4	0.03	<0.01	19	None	No	0.03	NP (normality)
Barium (mg/L)	MW-109B	0.72	0.66	2	No	16	0.69	0.05	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-109B	7.3	6.4	100	No	16	6.9	0.7	0.1	0.02	<0.01	0	None	No	0.01	Param.
Nickel (mg/L)	MW-109B	0.041	0.035	0.1	No	16	0.038	0.004	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Corrective Action Monitoring Locations - Assessment Constituents																
1,2-Dichlorobenzene (ug/L)	MW-14	1.7	1.2	600	No	33	1.5	0.5	0.4	<0.01	<0.01	12	None	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-14	8.1	5.1	75	No	33	6.6	3.7	0.6	<0.01	<0.01	15	Kaplan-Meier	No	0.01	Param.
Barium (mg/L)	MW-14	0.75	0.14	2	No	33	0.53	0.39	0.8	<0.01	<0.01	3	None	No	0.01	NP (normality)
Barium (mg/L)	MW-33	0.54	0.44	2	No	33	0.49	0.11	0.2	<0.01	<0.01	0	None	No	0.01	Param.
Benzene (ug/L)	MW-14	3.29	2.31	5	No	33	2.80	1.15	0.4	<0.01	<0.01	3	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-14	3.7	2.8	100	No	33	3.3	1.1	0.3	<0.01	<0.01	9	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-33	4.9	3.5	100	No	33	4.2	1.6	0.4	<0.01	<0.01	3	None	No	0.01	Param.
Cobalt (mg/L)	MW-14	0.00148	0.00079	0.0021	No	20	0.00129	0.00068	0.5	0.02	<0.01	0	None	No	0.02	NP (normality)
Cobalt (mg/L)	MW-33	0.00131	0.00114	0.0021	No	20	0.00123	0.00015	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Nickel (mg/L)	MW-14	0.022	0.013	0.1	No	20	0.019	0.011	0.6	0.02	<0.01	0	None	No	0.02	NP (normality)

[1] Under assessment mode, an SSL is indicated when the lower confidence limit exceeds the groundwater protection standard (compliance limit).

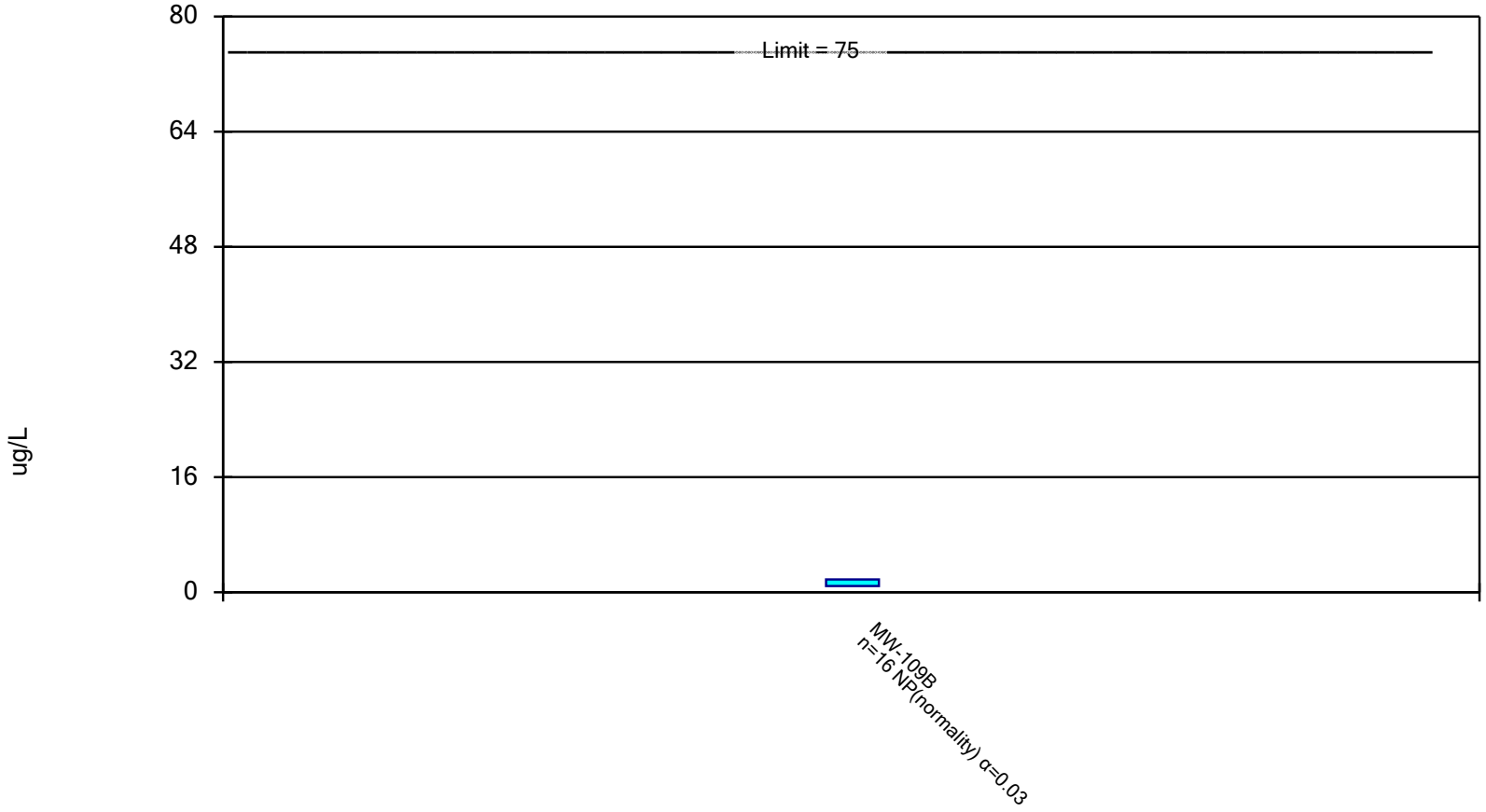
[2] Value is the 40 CFR Part 141 Safe Drinking Water Act MCL or the IAC 567 Chapter 137 Statewide Standard for a Protected Groundwater Source.

[3] For parametric confidence intervals: Except where otherwise indicated, based on Unified Guidance Equation 22.2, i.e., $\alpha \sim 1 - F_{T,n-1}\left(\frac{(R-1)\sqrt{n}}{R \cdot \widehat{CV}} - t_{1-\beta,n-1}\right)$
where R is the desired risk ratio, n is the sample size, CV is the estimated sample coefficient of variation, $t_{1-b,n-1}$ is the (1–b) Student's t-quantile with (n–1) degrees of freedom, and F is the cumulative (central) Student's t-distribution function.

[4] For non-parametric confidence intervals: Based on Unified Guidance Equation 22.1, i.e., $1 - \beta = G_{T,n-1}(t_{1-\alpha,n-1} | \Delta = \sqrt{n}(R-1))$
where R is the desired risk ratio, $t_{1-a,n-1}$ is the (1–a) Student's t-quantile with (n–1) degrees of freedom and G represents the cumulative non-central t-distribution with (n–1) degrees of freedom and noncentrality parameter D.

Non-Parametric Confidence Interval - Delineation Monitoring Assessment Constituents

Compliance Limit is not exceeded.

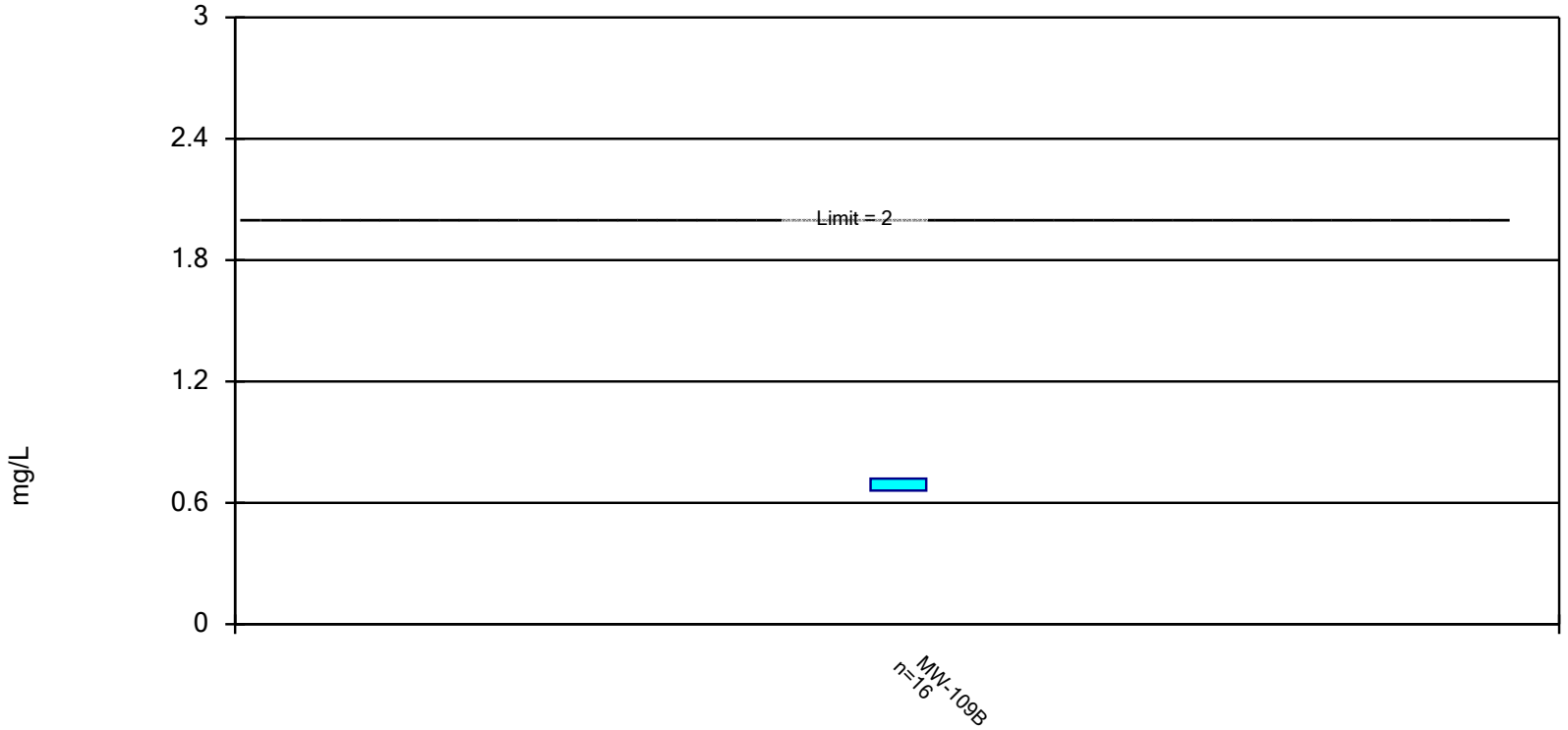


Constituent: 1,4-Dichlorobenzene Analysis Run 5/22/2024 3:32 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Delineation Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

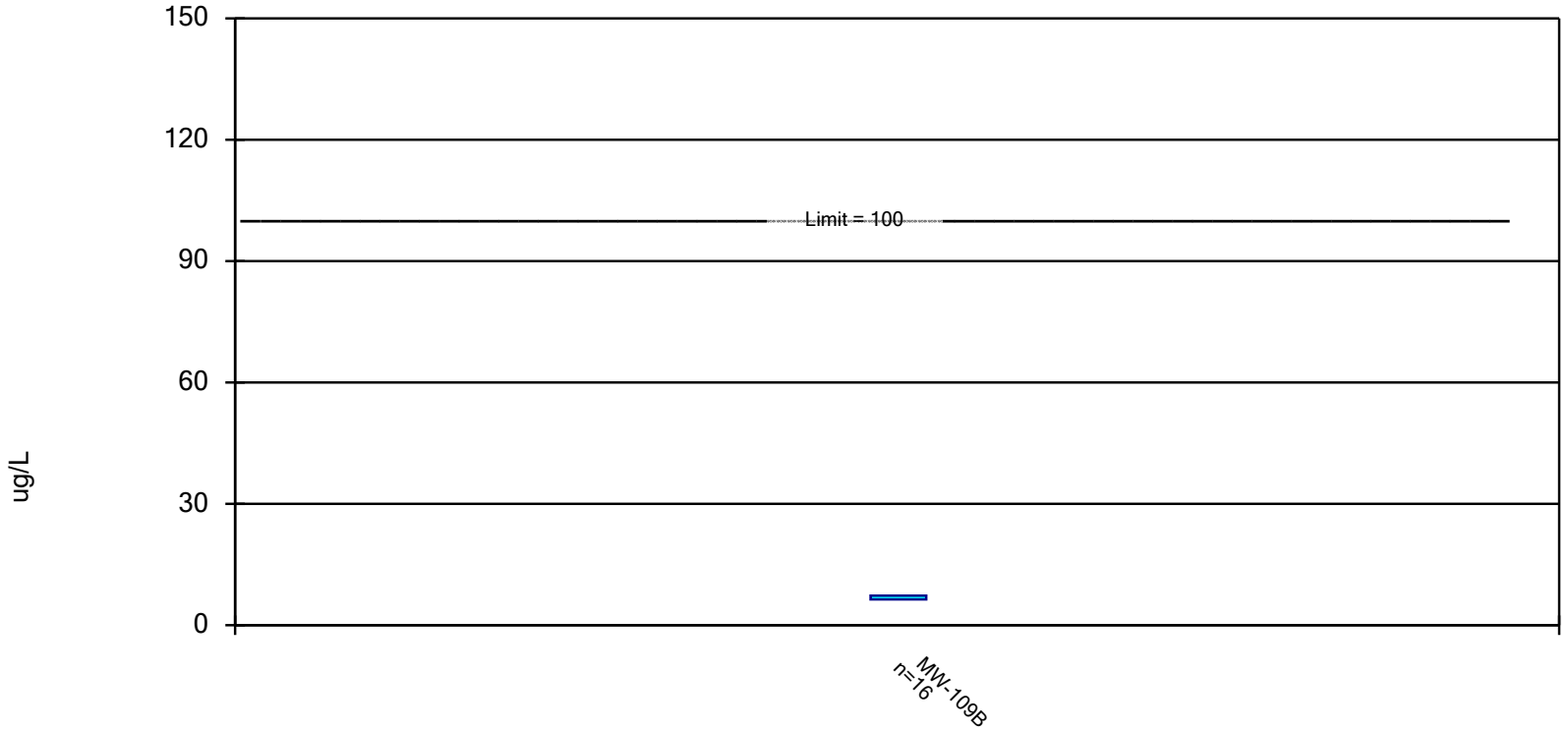


Constituent: Barium Analysis Run 5/22/2024 3:18 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Delineation Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

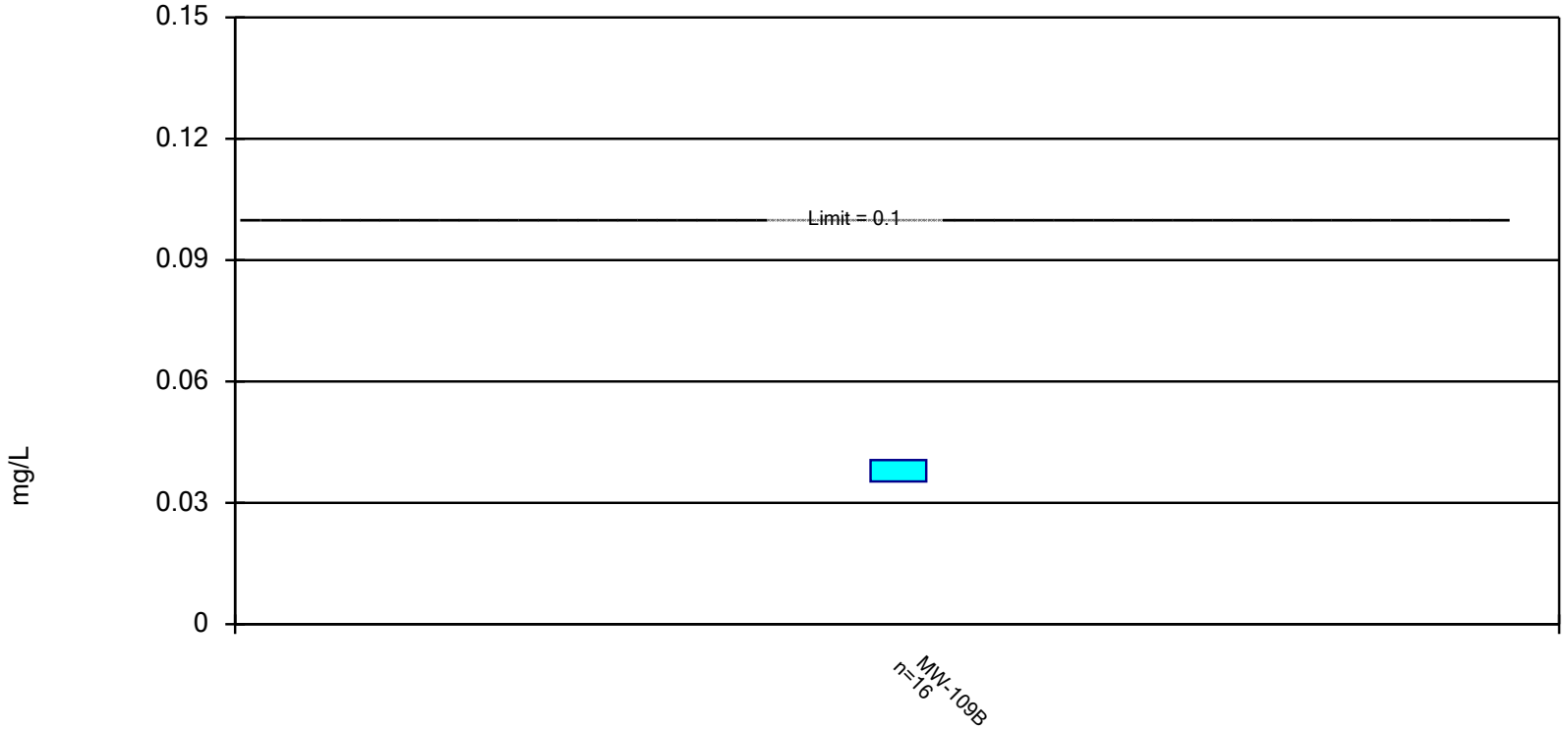


Constituent: Chlorobenzene Analysis Run 5/22/2024 3:18 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Delineation Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

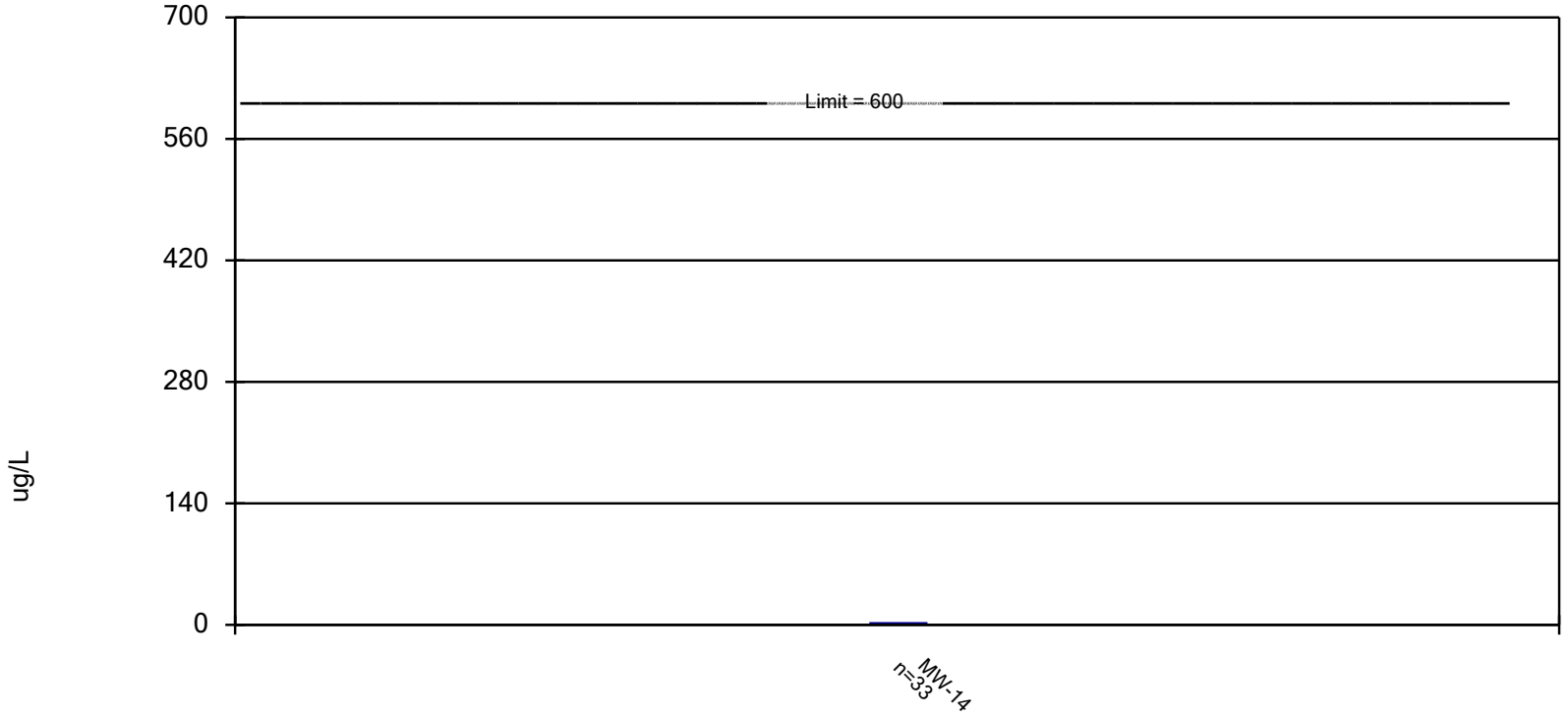


Constituent: Nickel Analysis Run 5/22/2024 3:18 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

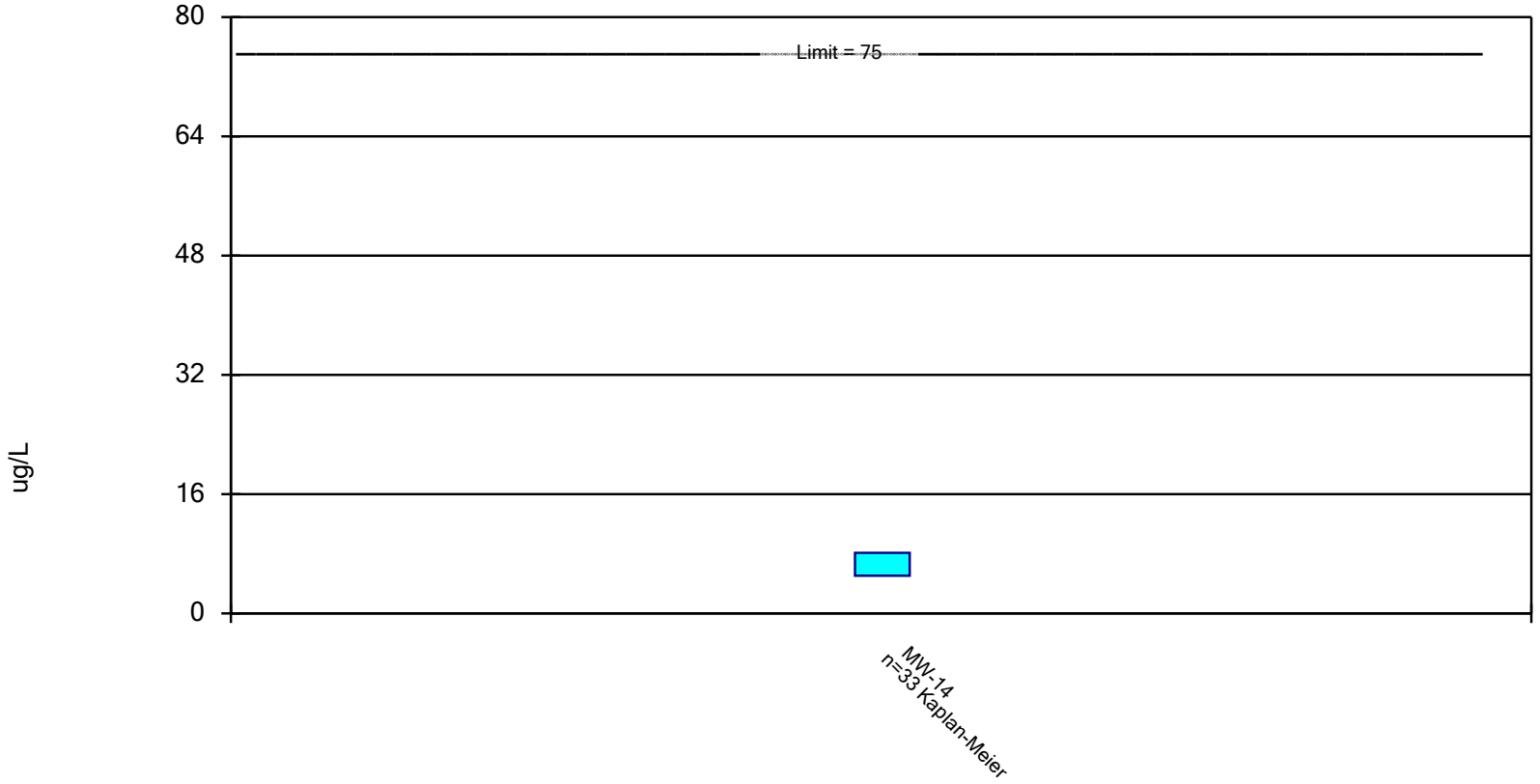


Constituent: 1,2-Dichlorobenzene Analysis Run 5/22/2024 3:20 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

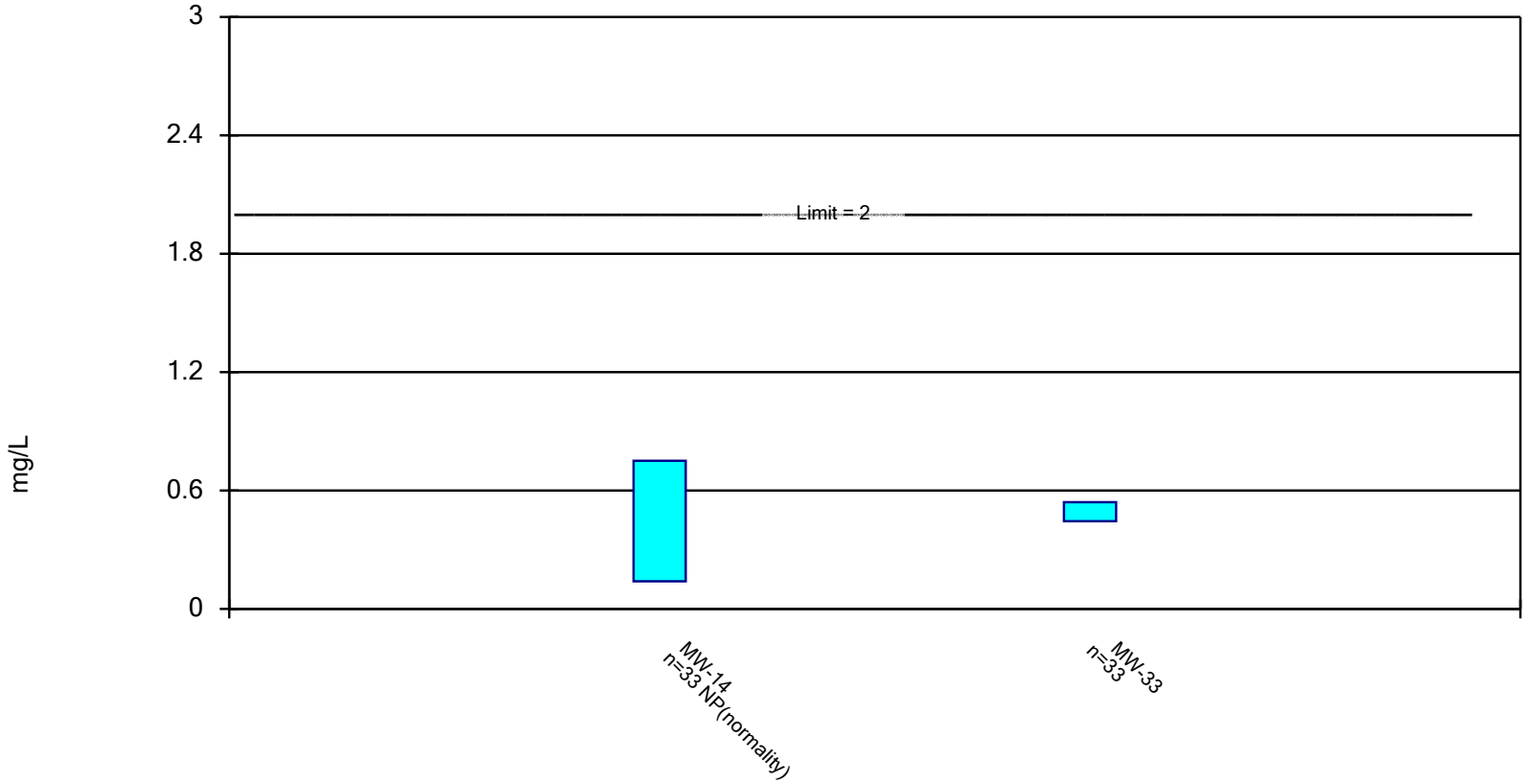


Constituent: 1,4-Dichlorobenzene Analysis Run 5/22/2024 3:20 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

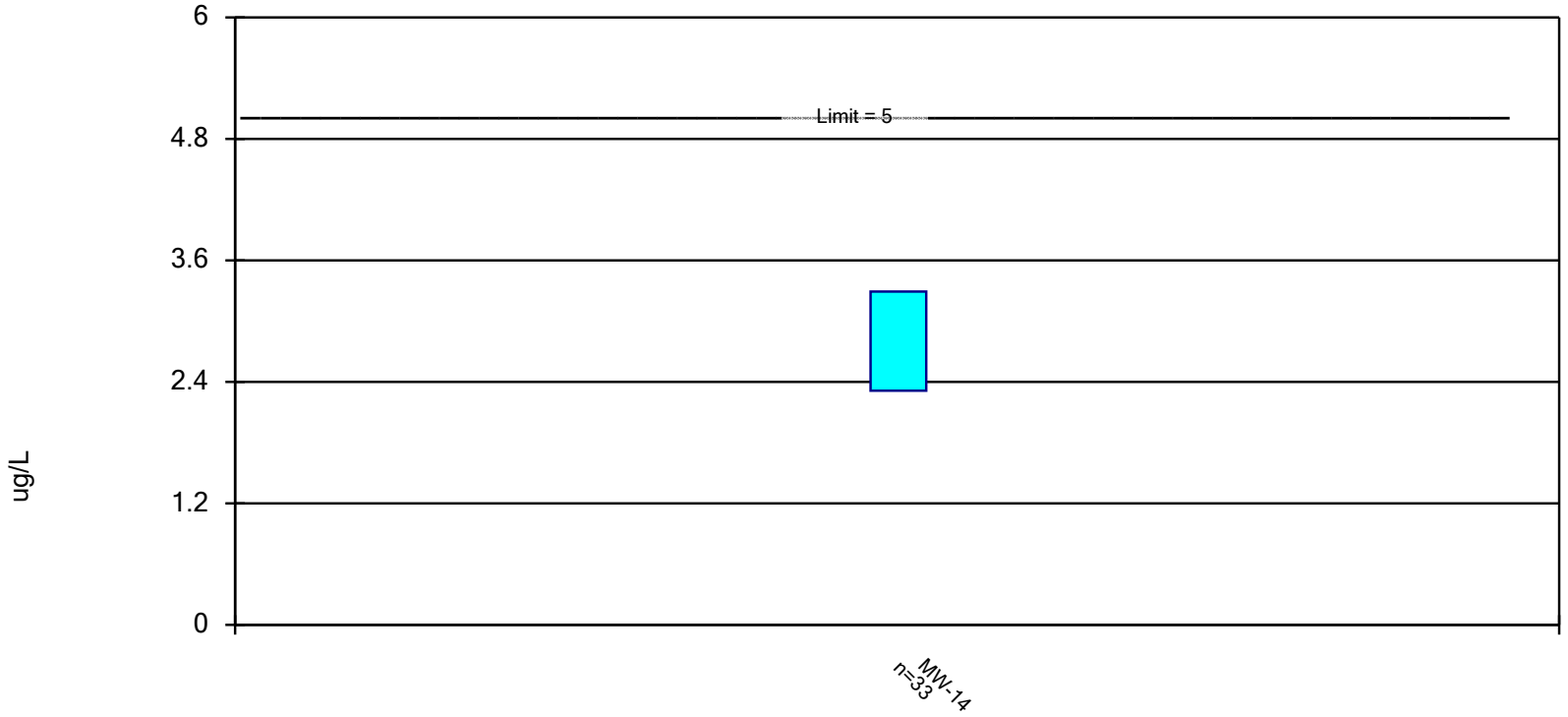


Constituent: Barium Analysis Run 5/22/2024 3:20 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

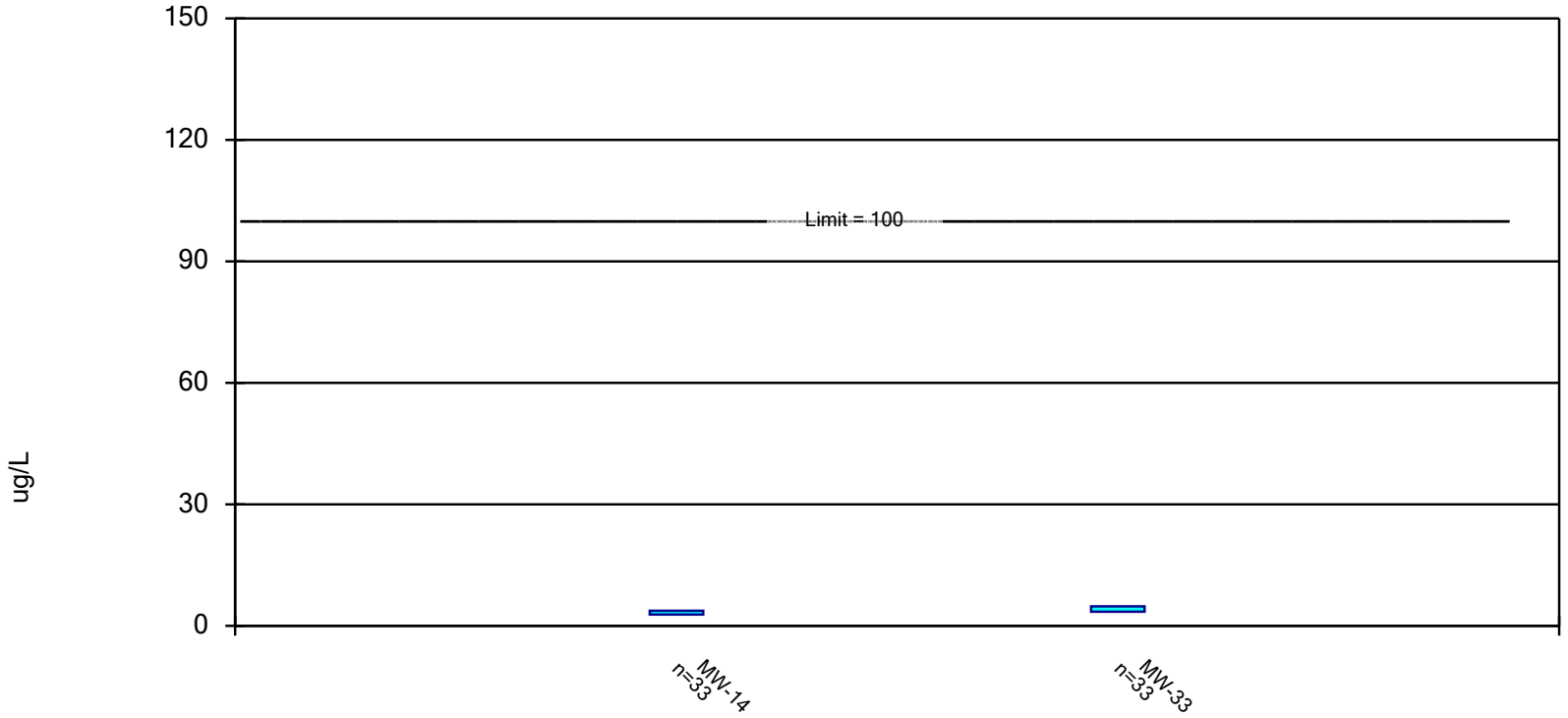


Constituent: Benzene Analysis Run 5/22/2024 3:20 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

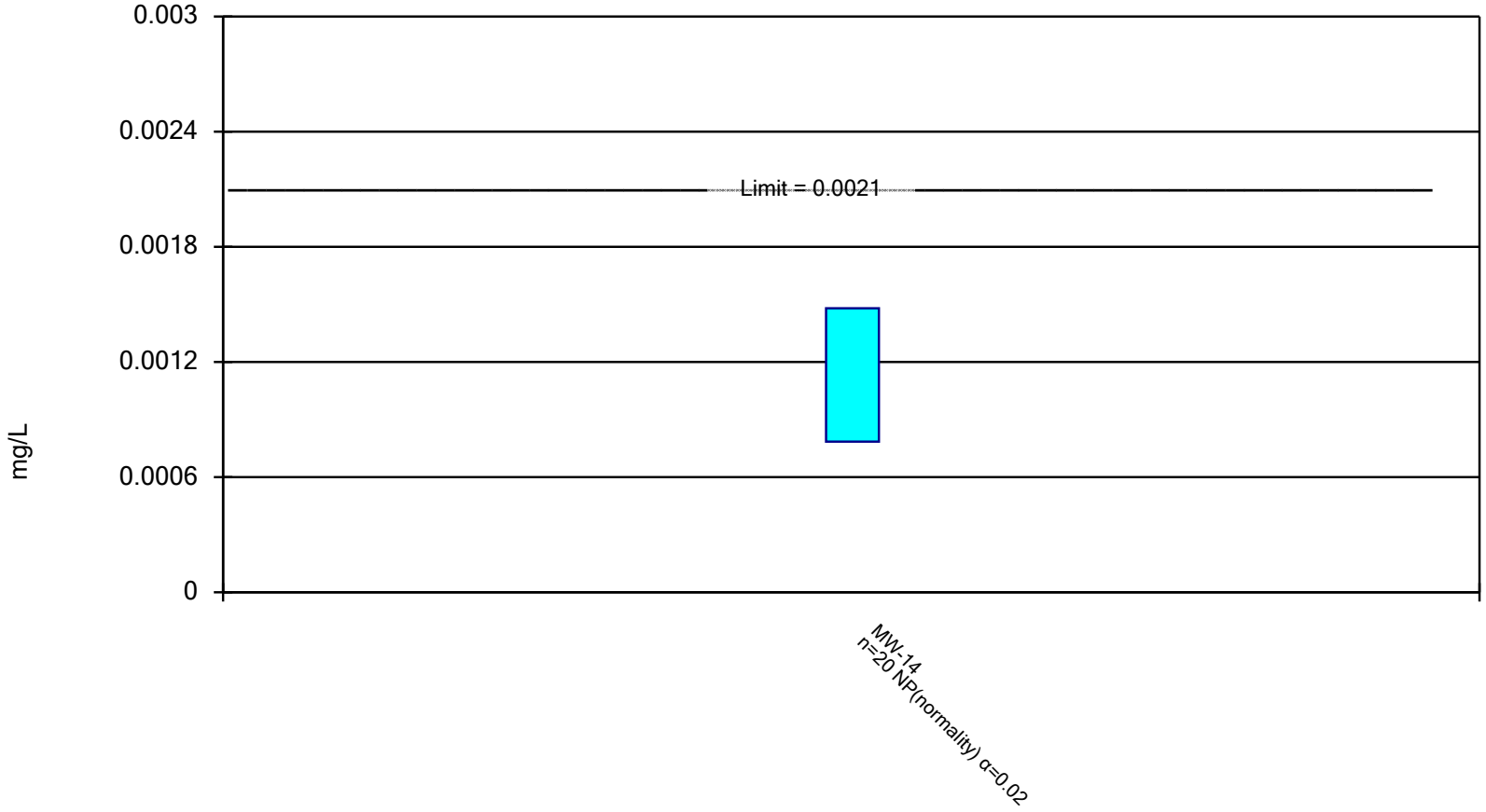


Constituent: Chlorobenzene Analysis Run 5/22/2024 3:20 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded.

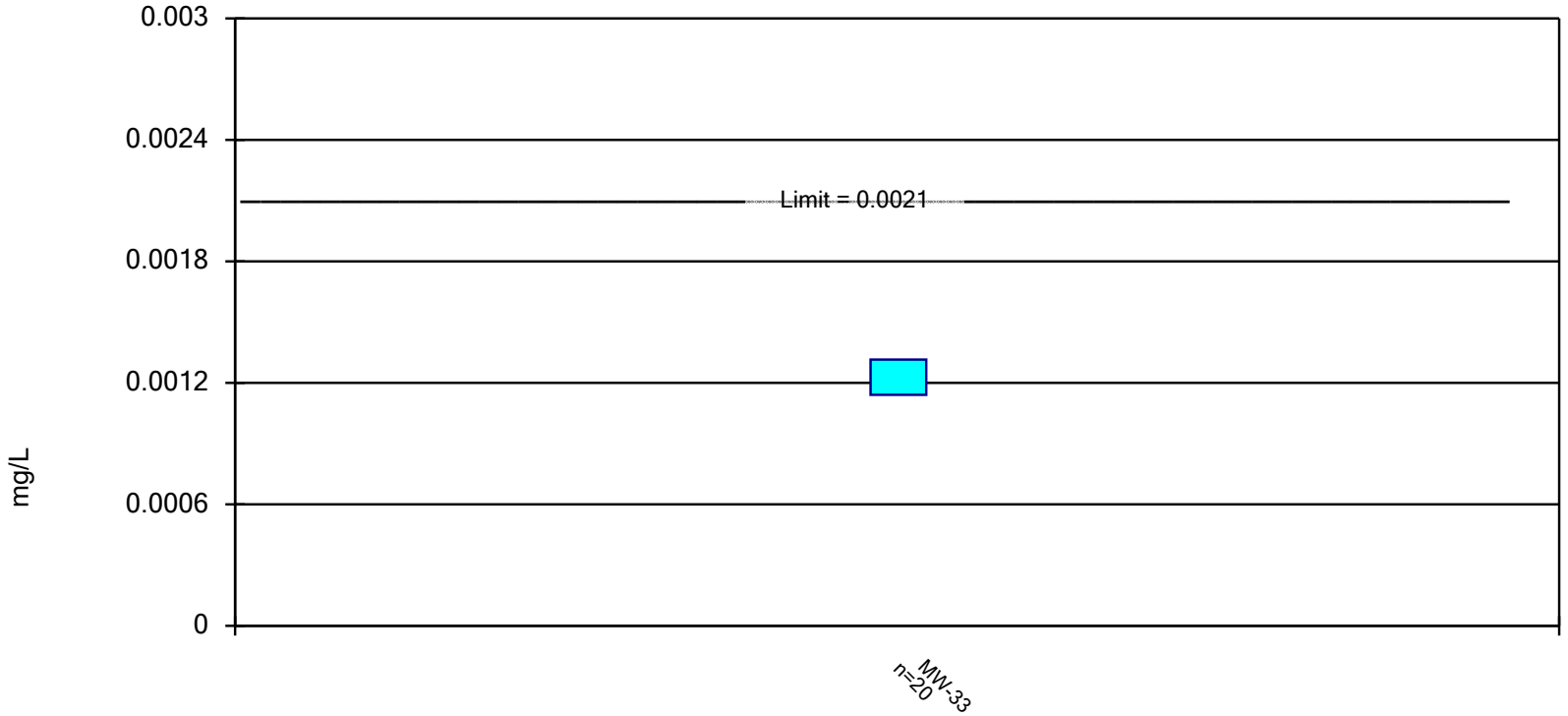


Constituent: Cobalt Analysis Run 5/22/2024 3:29 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

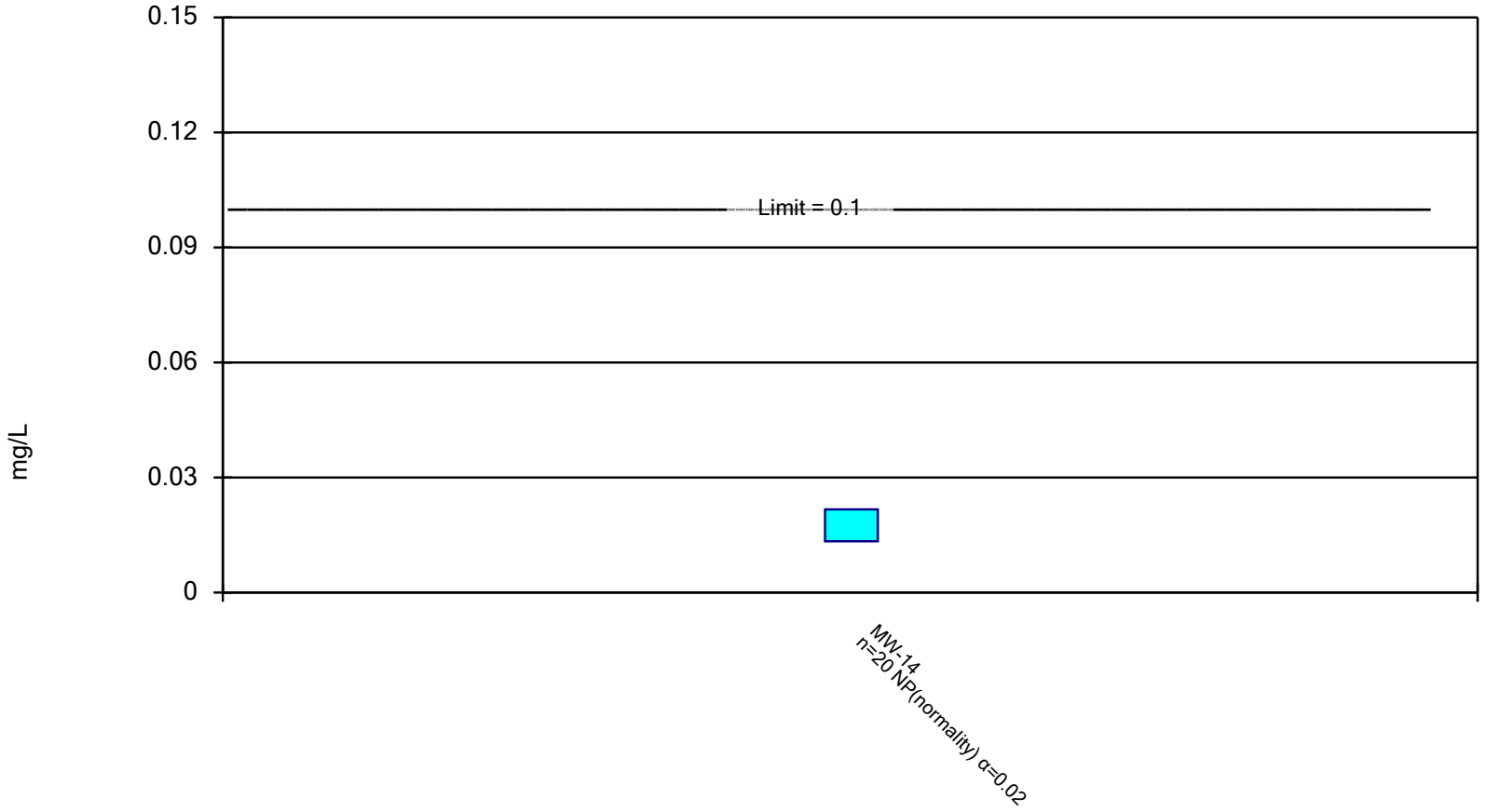


Constituent: Cobalt Analysis Run 5/22/2024 3:33 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring Assessment Constituents

Compliance Limit is not exceeded.



Constituent: Nickel Analysis Run 5/22/2024 3:31 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Attachment 5

Sanitas Report Output for Confidence Interval Calculations and Regression Summary
Corrective Action Mode

Upper Bedrock

Confidence Interval - Corrective Action Mode [1]

Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2]	Exceed	N	Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Corrective Action Monitoring Locations													
Arsenic (mg/L)	MW-12	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Arsenic (mg/L)	MW-13	0.055	0.046	0.01	Yes	33	0.051	0.020	0	None	No	0.1	Param.
Arsenic (mg/L)	MW-16	0.131	0.104	0.01	Yes	33	0.117	0.061	0	None	No	0.1	Param.
Arsenic (mg/L)	MW-17	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Arsenic (mg/L)	MW-32	0.085	0.051	0.01	Yes	33	0.086	0.068	0	None	No	0.1	NP (normality)

[1] Under corrective action mode, an SSL is rejected when the upper confidence limit lies below the groundwater protection standard (compliance limit).

[2] Value is the 40 CFR Part 141 Safe Drinking Water Act MCL or the IAC 567 Chapter 137 Statewide Standard for a Protected Groundwater Source.

MW-12 Arsenic Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.409806224
R Square	0.167941141
Adjusted R Square	0.141100533
Standard Error	0.026733364
Observations	33

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.004471693	0.0044717	6.2569797	0.01786184
Residual	31	0.022154856	0.0007147		
Total	32	0.026626549			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.430870482	0.115145321	3.7419713	0.0007442	0.19603005	0.6657109	0.1960301	0.665710913
X Variable 1	-6.77874E-06	2.70998E-06	-2.501396	0.0178618	-1.231E-05	-1.25E-06	-1.231E-05	-1.25169E-06

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
8/6/2008	0.113	0.1620	0.1770	0.1469	0.2097	0.1142
3/6/2009	0.1632	0.1605	0.1748	0.1463	0.2081	0.1130
7/17/2009	0.15	0.1596	0.1734	0.1459	0.2070	0.1123
9/17/2009	0.137	0.1592	0.1727	0.1457	0.2065	0.1119
3/17/2010	0.177	0.1580	0.1708	0.1452	0.2051	0.1109
9/7/2010	0.163	0.1568	0.1690	0.1446	0.2038	0.1099
3/4/2011	0.238	0.1556	0.1672	0.1440	0.2024	0.1088
9/7/2011	0.169	0.1543	0.1653	0.1434	0.2010	0.1077
3/12/2012	0.154	0.1531	0.1635	0.1427	0.1996	0.1066
9/11/2012	0.177	0.1518	0.1617	0.1420	0.1982	0.1054
3/26/2013	0.156	0.1505	0.1599	0.1411	0.1968	0.1042
9/4/2013	0.138	0.1494	0.1584	0.1404	0.1956	0.1032
3/10/2014	0.139	0.1481	0.1567	0.1395	0.1943	0.1020
9/17/2014	0.135	0.1468	0.1551	0.1386	0.1929	0.1008
3/12/2015	0.155	0.1456	0.1537	0.1376	0.1917	0.0996
10/6/2015	0.172	0.1442	0.1522	0.1363	0.1903	0.0982
3/14/2016	0.13	0.1432	0.1510	0.1353	0.1892	0.0971
8/19/2016	0.128	0.1421	0.1500	0.1342	0.1881	0.0961
3/13/2017	0.14	0.1407	0.1487	0.1326	0.1867	0.0947
8/28/2017	0.124	0.1395	0.1478	0.1313	0.1856	0.0935
3/14/2018	0.149	0.1382	0.1468	0.1297	0.1843	0.0921
8/30/2018	0.128	0.1371	0.1459	0.1282	0.1833	0.0909
3/26/2019	0.126	0.1357	0.1450	0.1263	0.1819	0.0894
8/28/2019	0.0702	0.1346	0.1444	0.1248	0.1810	0.0882
4/1/2020	0.104	0.1331	0.1435	0.1228	0.1796	0.0866
8/18/2020	0.0963	0.1322	0.1430	0.1214	0.1788	0.0856
3/25/2021	0.133	0.1307	0.1422	0.1192	0.1775	0.0839
8/23/2021	0.149	0.1297	0.1417	0.1177	0.1766	0.0828
3/30/2022	0.144	0.1282	0.1410	0.1154	0.1753	0.0811
8/30/2022	0.14	0.1272	0.1405	0.1138	0.1744	0.0799
3/23/2023	0.116	0.1258	0.1399	0.1116	0.1733	0.0783
8/24/2023	0.156	0.1247	0.1395	0.1100	0.1724	0.0771
3/28/2024	0.152	0.1233	0.1388	0.1077	0.1712	0.0753

GWPS = 0.01 mg/L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

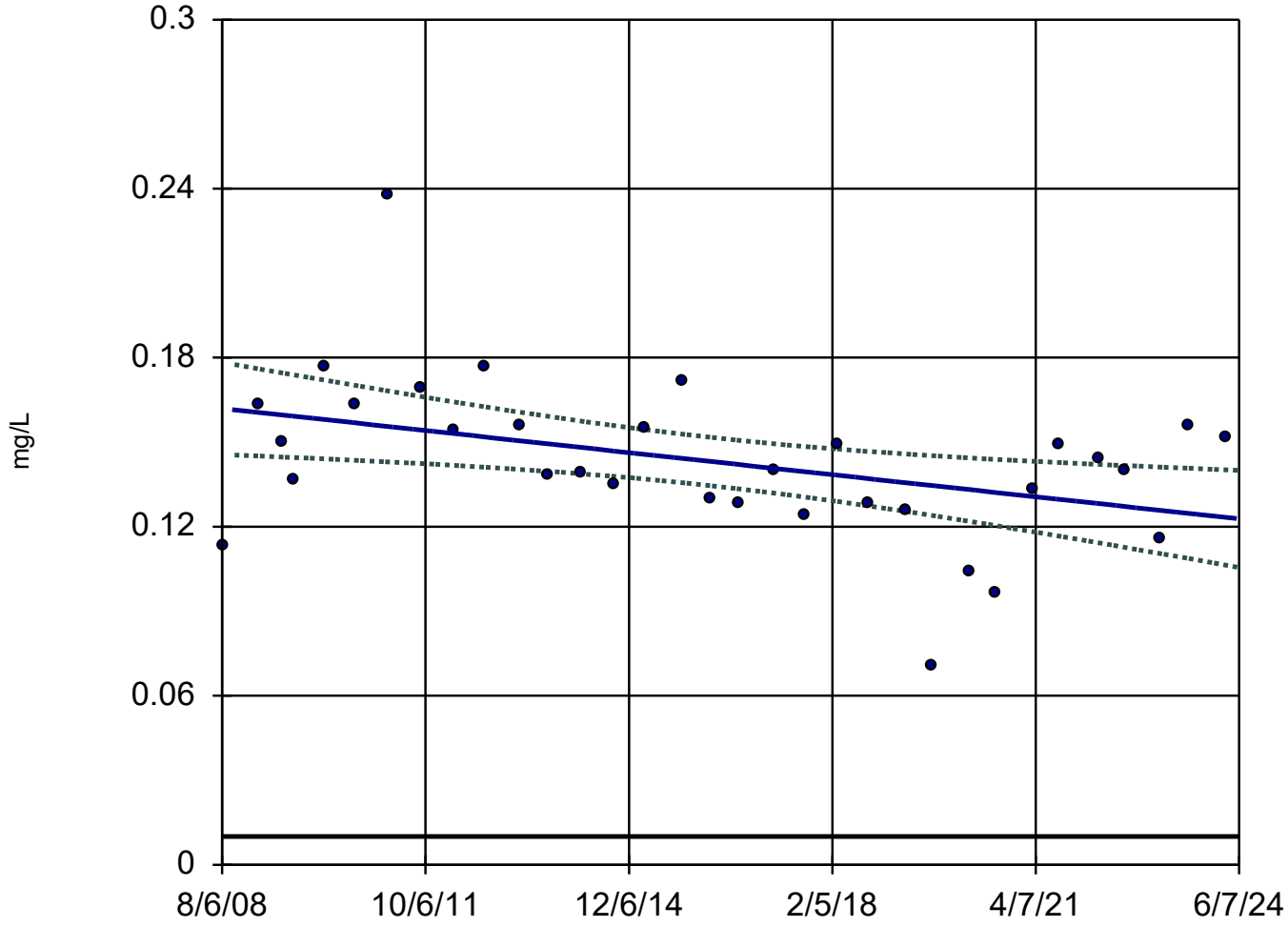
10/25/2168 -4.605 0.01

Projected Year to Completion

10/25/2171

Linear Regression and 90% Confidence Band

MW-12



n = 33

Slope = -0.002476 units/year.

alpha = 0.02
t = -2.501
critical = -2.144

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.9534, critical = 0.906.

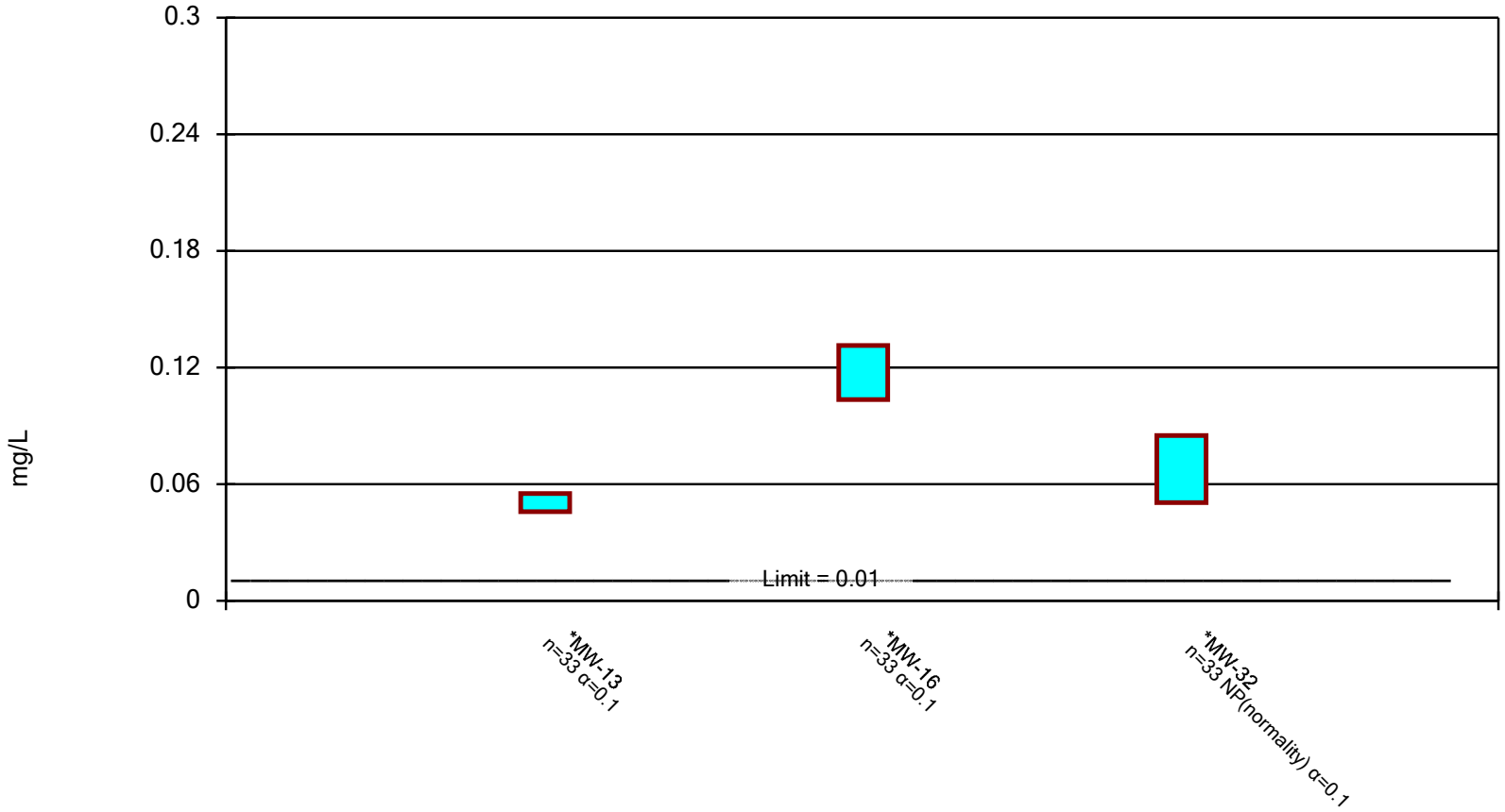
GWPS = 0.01.

Constituent: Arsenic Analysis Run 5/23/2024 9:03 AM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/23/2024 9:08 AM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

MW-17 Arsenic Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.654474641
R Square	0.428337056
Adjusted R Square	0.371170762
Standard Error	0.016881459
Observations	12

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.002135333	0.002135	7.492825	0.02092943
Residual	10	0.002849836	0.000285		
Total	11	0.004985169			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	1.004751996	0.34146348	2.942487	0.014723	0.24392395	1.76558	0.243924	1.765580042
X Variable 1	-2.10699E-05	7.69733E-06	-2.737303	0.020929	-3.822E-05	-3.92E-06	-3.822E-05	-3.9192E-06

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
8/30/2018	0.105	0.0915	0.1082	0.0749	0.1264	0.0567
3/21/2019	0.0729	0.0873	0.1016	0.0729	0.1211	0.0535
8/22/2019	0.095	0.0840	0.0968	0.0713	0.1172	0.0509
3/30/2020	0.066	0.0794	0.0901	0.0686	0.1118	0.0469
8/20/2020	0.096	0.0763	0.0861	0.0666	0.1085	0.0442
3/25/2021	0.0638	0.0718	0.0807	0.0629	0.1036	0.0399
8/24/2021	0.0599	0.0686	0.0775	0.0597	0.1004	0.0367
3/31/2022	0.0316	0.0640	0.0737	0.0542	0.0961	0.0318
8/25/2022	0.0808	0.0609	0.0716	0.0501	0.0933	0.0284
3/24/2023	0.0675	0.0564	0.0691	0.0437	0.0895	0.0233
8/29/2023	0.048	0.0531	0.0674	0.0387	0.0869	0.0193
3/24/2024	0.0554	0.0487	0.0654	0.0320	0.0836	0.0138

GWPS = 0.01 mg/L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

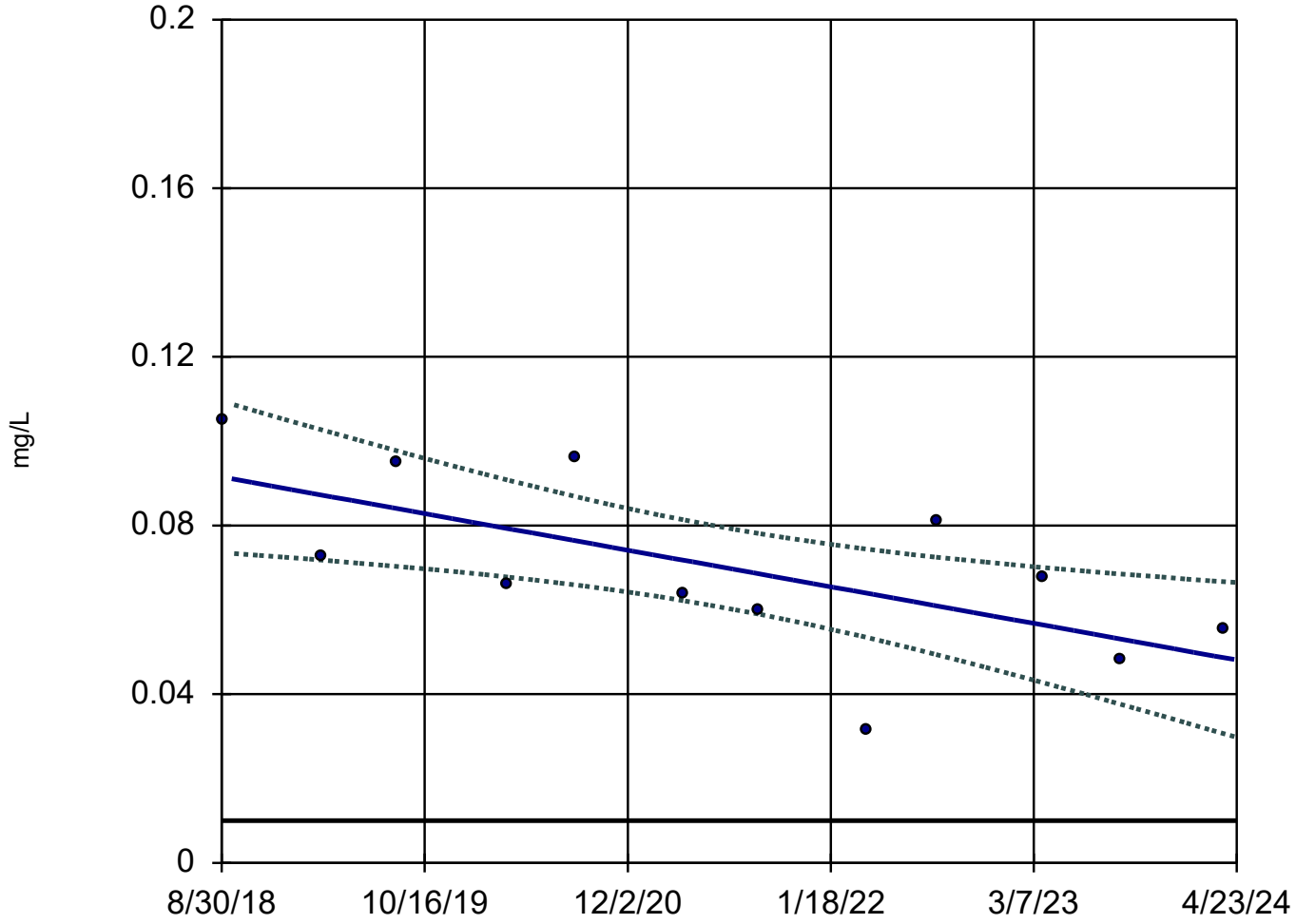
8/22/2038 -4.605 0.01

Projected Year to Completion

8/21/2041

Linear Regression and 90% Confidence Band

MW-17



n = 12

Slope = -0.007685 units/year.

alpha = 0.02
t = -2.734
critical = -2.359

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.9293, critical = 0.805.

GWPS = 0.01.

Constituent: Arsenic Analysis Run 5/23/2024 9:06 AM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Spring 2024 Evaluation

Deeper Bedrock

Confidence Interval - Corrective Action Mode [1]

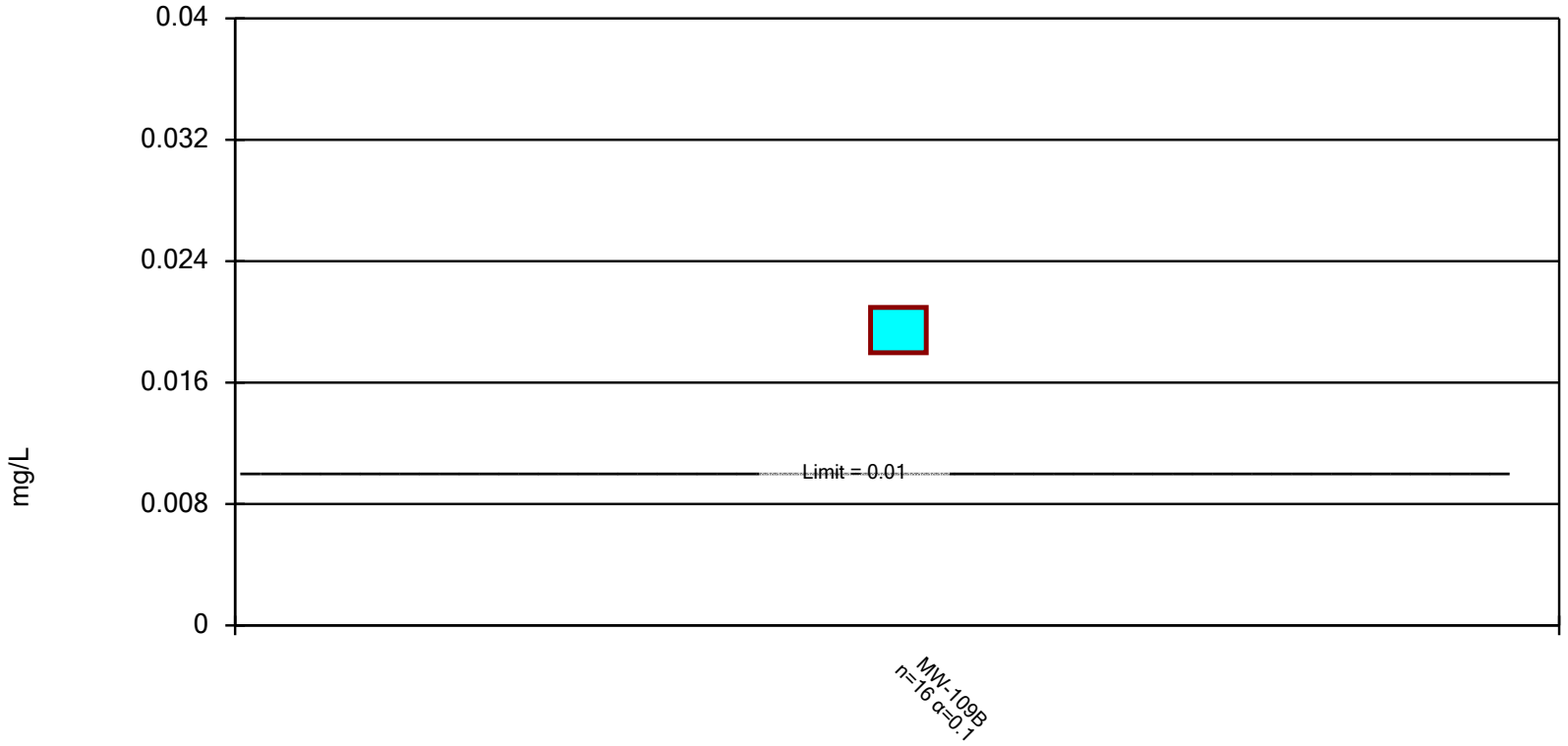
Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2]	Exceeds	N	Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Delineation Monitoring Locations													
Arsenic (mg/L)	MW-109B	0.021	0.018	0.01	Yes	16	0.019	0.004	0	None	No	0.1	Param.
Cobalt (mg/L)	MW-109B	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Thallium (mg/L)	MW-109B	0.00502	0.00467	0.002	Yes	16	0.00484	0.00054	0	None	No	0.1	Param.
Corrective Action Monitoring Locations													
Arsenic (mg/L)	MW-14	0.026	0.020	0.01	Yes	33	0.030	0.027	0	None	No	0.1	NP (normality)
Arsenic (mg/L)	MW-33	0.038	0.034	0.01	Yes	33	0.036	0.009	0	None	No	0.1	Param.

[1] Under corrective action mode, an SSL is rejected when the upper confidence limit lies below the groundwater protection standard (compliance limit).

[2] Value is the 40 CFR Part 141 Safe Drinking Water Act MCL or the IAC 567 Chapter 137 Statewide Standard for a Protected Groundwater Source.

Parametric Confidence Interval, Corrective Action Mode

Compliance limit is exceeded. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/23/2024 9:19 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

MW-109B Cobalt Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.555717746
R Square	0.308822213
Adjusted R Square	0.259452371
Standard Error	0.002398761
Observations	16

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	3.59932E-05	3.599E-05	6.2552806	0.02541477
Residual	14	8.05568E-05	5.754E-06		
Total	15	0.00011655			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.109093301	0.035997115	3.0306124	0.008989	0.03188717	0.1862994	0.0318872	0.186299433
X Variable 1	-2.04225E-06	8.16555E-07	-2.501056	0.0254148	-3.794E-06	-2.91E-07	-3.794E-06	-2.90913E-07

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
11/27/2017	0.0269	0.02114	0.02294	0.01934	0.02573	0.01655
3/8/2018	0.0191	0.02094	0.02262	0.01925	0.02548	0.01639
6/15/2018	0.0232	0.02073	0.02231	0.01916	0.02524	0.01622
9/4/2018	0.0214	0.02057	0.02206	0.01908	0.02505	0.01609
11/27/2018	0.0192	0.02040	0.02180	0.01899	0.02485	0.01594
4/19/2019	0.016	0.02010	0.02139	0.01882	0.02452	0.01569
8/27/2019	0.0181	0.01984	0.02102	0.01865	0.02423	0.01545
3/31/2020	0.0184	0.01940	0.02048	0.01832	0.02376	0.01503
8/20/2020	0.0194	0.01911	0.02016	0.01805	0.02346	0.01475
3/25/2021	0.018	0.01866	0.01976	0.01757	0.02303	0.01430
8/23/2021	0.0168	0.01835	0.01953	0.01718	0.02274	0.01397
3/31/2022	0.0163	0.01790	0.01924	0.01657	0.02234	0.01347
8/25/2022	0.0191	0.01760	0.01908	0.01613	0.02208	0.01313
3/23/2023	0.0173	0.01718	0.01888	0.01547	0.02173	0.01262
8/24/2023	0.0169	0.01686	0.01874	0.01498	0.02149	0.01224
3/28/2024	0.0191	0.01642	0.01857	0.01427	0.02116	0.01168

GWPS = 0.0021 mg//L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

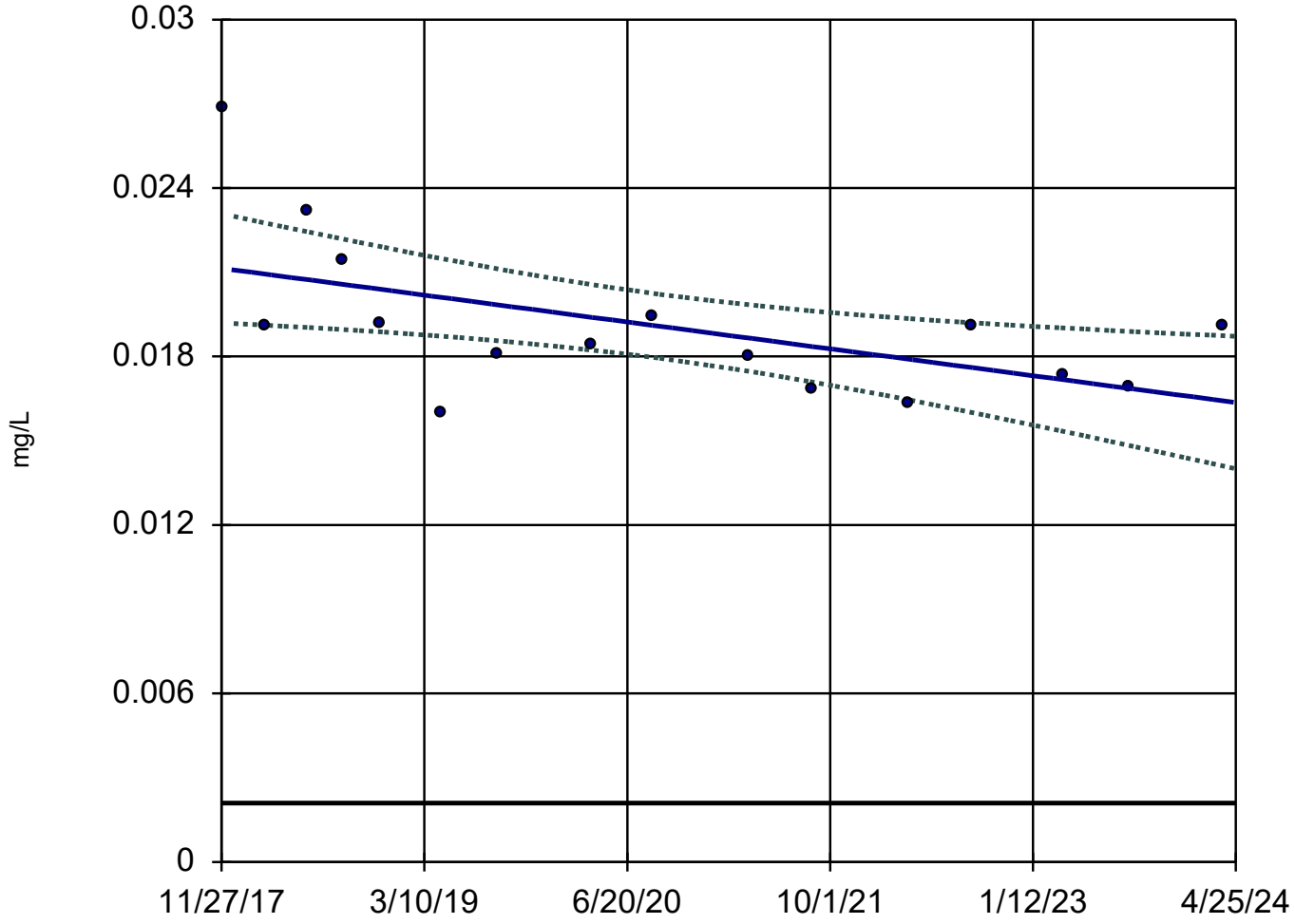
11/5/2081 -6.166 0.0021

Projected Year to Completion

11/4/2084

Linear Regression and 90% Confidence Band

MW-109B



n = 16

Slope = -0.0007459 units/year.

alpha = 0.02
t = -2.501
critical = -2.264

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9416, critical
= 0.844.

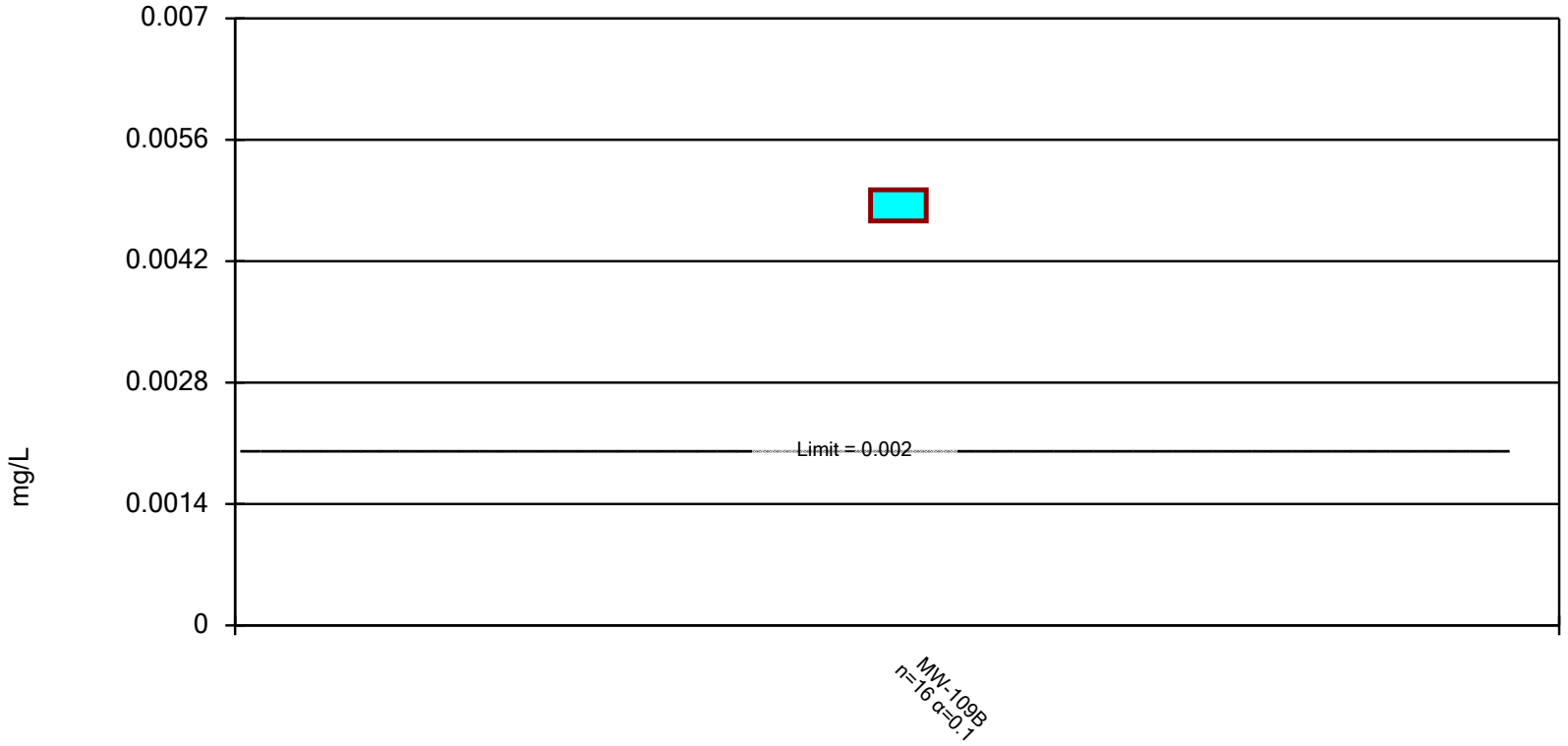
GWPS = 0.0021.

Constituent: Cobalt Analysis Run 5/23/2024 9:16 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric Confidence Interval, Corrective Action Mode

Compliance limit is exceeded. Normality Test: Shapiro Wilk, alpha based on n.

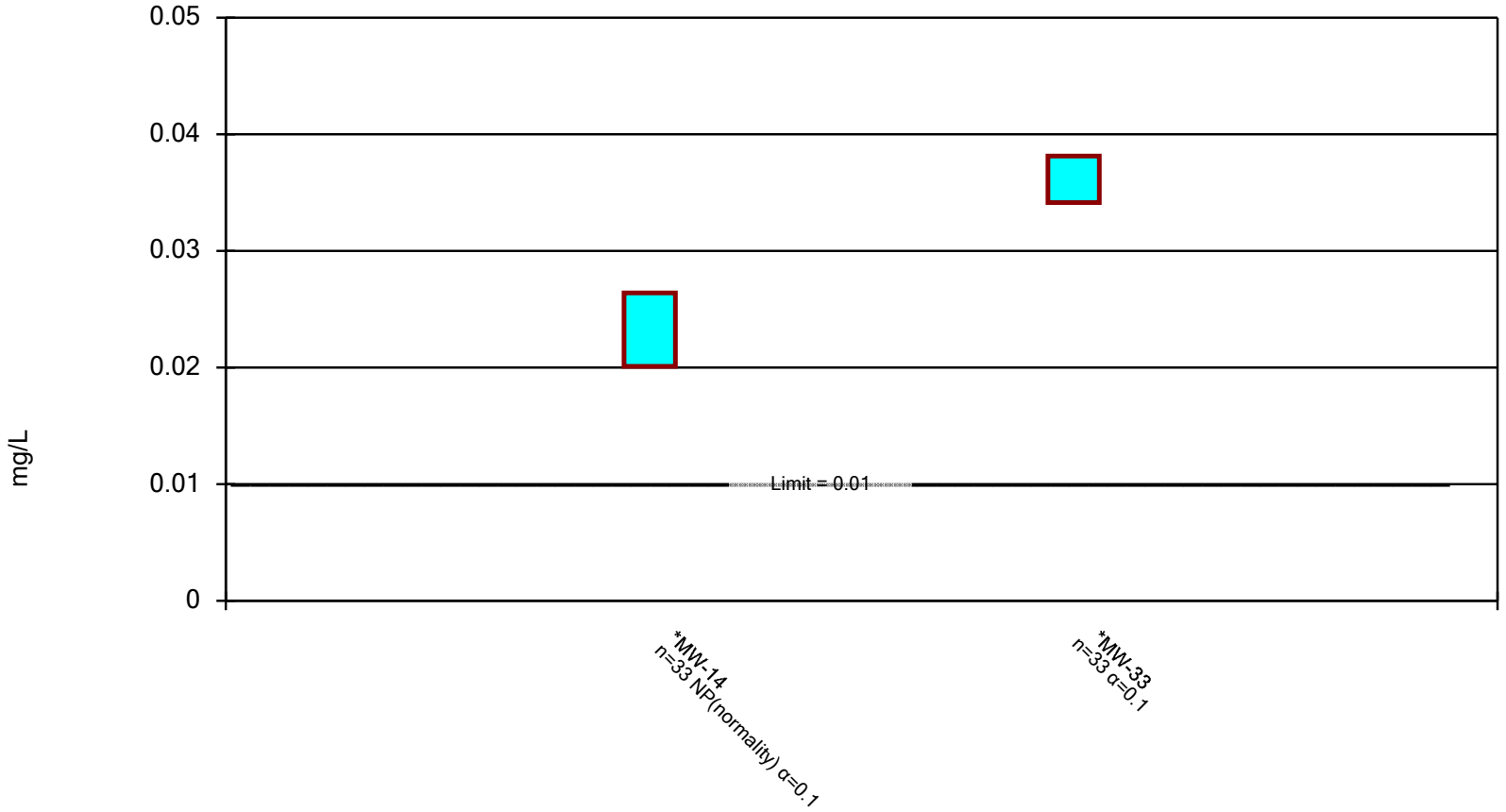


Constituent: Thallium Analysis Run 5/23/2024 9:19 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/23/2024 9:18 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Spring 2024 Evaluation

Attachment 6

References

References

Foth Infrastructure and Environment (Foth), 2012. *2011 Annual Water Quality Report, Cedar Rapids/Linn County Solid Waste Agency Site No.1, IDNR Permit No. 57-SDP-03-75C, Project ID: 11C050.00*. December 29. [Doc. #68145].

Iowa Department of Natural Resources (Matthew R. Phoenix, P.E.), Letter to Karmin McShane, 12 May 2016. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill (Site #1 – Cedar Rapids), 2015 Annual Water Quality Report and 2015 Statistical Notifications, Permit No. 57-SDP-03-75C." [Doc. #86317].

Iowa Department of Natural Resources (Matthew Graesch), Letter to Karmin McShane, 20 Nov 2017. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill #1, Permit No. 57-SDP-03-75C, Response to Fall 2017 Statistical Notifications (doc #90813)." [Doc. #90850].

United States Environmental Protection Agency (USEPA), 1997. *The Lognormal Distribution in Environmental Applications*. EPA/600/R97/006. Office of Solid Waste and Emergency Response, Washington, D.C.

USEPA, 2006. *On the Computation of a 95% Upper Confidence Limit of the Unknown Population Mean Based Upon Data Sets with Below Detection Limit Observations*. EPA/600/R-06/022. Office of Research and Development, Washington, D.C.

USEPA, 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*. EPA 530-R-09-007. Office of Resource Conservation and Recovery, Program Implementation and Information Division, Washington, D.C.

Memorandum

411 6th Avenue SE, Suite 400
Cedar Rapids, IA 52401
(319) 365-9565
foth.com

October 21, 2024

TO: Iowa Department of Natural Resources

FR: Gina Wilming; Hannah Dubbs; Stephen Lehrke, Ph.D.

RE: Site 1 Statistical Analysis - Fall 2024 Evaluation

1 Memorandum Organization

This memo addresses the statistical analysis of the groundwater monitoring data collected in August 2024. The statistical methods and results are summarized, with the memo organization given as follows:

Tables

Attachments

2 Background

The groundwater monitoring locations and status of the Appendix I and II sampling schedules are summarized on Tables 1 and 2. The Appendix I and II analytical results will be provided in Table 14 of the 2024 Annual Water Quality Report (AWQR).

Table 1
Upper Bedrock Monitoring Locations and Schedule
Aug. 2008 – Aug. 2024 Appendix I & II Data

Monitoring Location	Monitoring Program	Current Schedule [1] (Aug. 2024)	Appendix I Initiated	# Events to Complete Baseline Appendix I or Completion Date [113.10(5)b]	Appendix II Initiated	# Events to Complete Baseline Appendix II or Completion Date [113.10(6)b]	Returned to Detection Monitoring (Yes/No)
Downgradient Monitoring Locations							
AW-1	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
AW-2	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
AW-3	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-11
					Mar-12	Sep-12	Mar-14
					Mar-16	Jun-16	No
AW-4	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Mar-12	Sep-12	Mar-14
					Mar-16	Jun-16	No
AW-5	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Mar-12	Sep-12	No
MW-12	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-13	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-16	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-17	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-20	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Mar-11	Sep-11	No
MW-21	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-23	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-24	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-26	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Aug-22
					Jan-23	Mar-23	No
MW-28	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Mar-12	Sep-12	No
MW-30	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-32	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-34	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-35	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
VP-3	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Mar-11	Sep-11	No
VP-4	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Mar-12	Sep-12	No
Background Monitoring Locations							
MW-37	Background	Appendix II	N/A	N/A	Aug-08	Sep-09	---
MW-101A	Background	Appendix II	Sep-13 [2]	Sep-14 [2]	Sep-13 [2]	Sep-14 [2]	---
Delineation Monitoring Locations							
MW-105A	Delineation	Appendix I	Sep-13	Sep-14	---	---	---
MW-106A	Delineation	Appendix I	Sep-13	Sep-14	---	---	---
MW-107A	Delineation	Appendix I	Sep-13	Sep-14	---	---	---
MW-109A	Delineation	Appendix I	Nov-17	Nov-18	---	---	---

N/A = Not applicable. Monitoring points were under routine parameter sampling per 567 IAC 113.2(5) prior to initiation of Appendix II.

[1] Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Aug. 2024. Resampling for the full Appendix II list at the assessment, corrective action, and background monitoring wells is conducted every five years.

[2] Six rounds of background monitoring for the Appendix II metals were conducted at MW-101A between Sep. 2013 and Mar. 2015. Background monitoring for the full Appendix II list was conducted in Sep. 2015, Mar. 2016, and Aug. 2020.

Table 2
Deeper Bedrock Monitoring Locations and Schedule
Aug. 2008 – Aug. 2024 Appendix I & II Data

Monitoring Location	Monitoring Program	Current Schedule [1] (Aug. 2024)	Appendix I Initiated	# Events to Complete Baseline Appendix I or Completion Date [113.10(5)b]	Appendix II Initiated	# Events to Complete Baseline Appendix II or Completion Date [113.10(6)b]	Returned to Detection Monitoring (Yes/No)
Downgradient Monitoring Locations							
AW-6	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
CRL-9	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-11	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-14	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-15	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Sep-13	Mar-14	Mar-15
					Jun-16	Aug-16	No
MW-18	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Sep-13	Mar-14	Mar-15
					Jul-15	Sep-15	No
MW-19	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Sep-12	Mar-13	Mar-15
					Jul-15	Sep-15	No
MW-22	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-25	Assessment	Appendix II	N/A	N/A	Aug-08	Sep-09	Sep-10
					Mar-12	Sep-12	No
MW-31	Detection	Appendix I	N/A	N/A	Aug-08	Sep-09	Sep-10
					Mar-12	Sep-12	Mar-15
MW-33	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
MW-36	Corrective Action	Appendix II	N/A	N/A	Aug-08	Sep-09	No
Background Monitoring Locations							
MW-38	Background	Appendix II	N/A	N/A	Aug-08	Sep-09	---
MW-101B	Background	Appendix II	Sep-13 [2]	Sep-14 [2]	Sep-13 [2]	Sep-14 [2]	---
Delineation Monitoring Locations							
MW-102B	Delineation	Appendix I	Sep-13	Sep-14	---	---	---
MW-104B	Delineation	Arsenic [3]	Sep-13	Sep-14	---	---	---
MW-105B	Delineation	Appendix I	Sep-13	Sep-14	---	---	---
MW-107B	Delineation	Appendix I	Sep-13	Sep-14	---	---	---
MW-108B	Delineation	Appendix I without Cobalt [4]	Nov-17	Nov-18	---	---	---
MW-109B	Delineation	Appendix I	Nov-17	Nov-18	---	---	---

N/A = Not applicable. Monitoring points were under routine parameter sampling per 567 IAC 113.2(5) prior to initiation of Appendix II.

[1] Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Aug. 2024. Resampling for the full Appendix II list at the assessment, corrective action, and background monitoring wells is conducted every five years.

[2] Six rounds of background monitoring for the Appendix II metals were conducted at MW-101B between Sep. 2013 and Mar. 2015. Two rounds of background monitoring for the full Appendix II list were conducted in Sep. 2015 and Mar. 2016.

[3] IDNR approved retaining MW-104B as an arsenic delineation monitoring well in the letter dated May 12, 2016 (IDNR, 2016).

[4] IDNR approved the removal of cobalt from the list of analytes at MW-108B in the letter dated Apr. 16, 2019 (IDNR, 2019).

In August 2024, semiannual corrective action, background, and delineation monitoring was conducted at upper bedrock wells MW-12, MW-13, MW-16, MW-17, MW-32, MW-37, and MW-101A and deeper bedrock wells MW-14, MW-33, MW-38, MW-101B, and MW-109B. In accordance with Permit Amendment #16, annual detection, assessment, corrective action, and delineation monitoring was also conducted in August 2024 at upper bedrock wells AW-1, AW-2,

AW-3, AW-4, AW-5, MW-20, MW-21, MW-23, MW-24, MW-26, MW-28, MW-30, MW-34, MW-35, VP-3, VP-4, MW-105A, MW-106A, MW-107A, and MW-109A and deeper bedrock wells AW-6, CRL-9, MW-11, MW-15, MW-18, MW-19, MW-22, MW-25, MW-31, MW-36, MW-102B, MW-104B, MW-105B, MW-107B, and MW-108B. Assessment, corrective action monitoring, and background locations were sampled for the Appendix I and detected Appendix II constituents in August 2024. In accordance with Permit Amendment #6, resampling for the full Appendix II list at the assessment, corrective action, and background monitoring wells is conducted every five years. The next full Appendix II resampling dates will be provided in Table 2 of the 2024 Annual Water Quality Report (AWQR).

Under the detection and assessment monitoring programs of 567 IAC 113.10(5) and 113.10(6), Appendix I and II monitoring results are statistically compared to background levels as given in 567 IAC 113.10(6)e and to the groundwater protection standard (GWPS) as given in 567 IAC 113.10(6)g and h. A well may return to detection monitoring when all Appendix II constituents are "shown to be at or below background values, using the statistical procedures in paragraph 113.10(4)g for two consecutive sampling events." Consequently, to return to detection monitoring in accordance with 567 IAC 113.10(6)e, all Appendix II constituents must be below the interwell prediction limit (for constituents which are detected in the background data set) or below the laboratory reporting limit (for constituents which are not detected in the background data set) during two consecutive sampling events. As mentioned in previous memos, three consecutive sampling events may be utilized to make the determination to return to detection monitoring to limit frequent fluctuation of wells moving between the detection and assessment monitoring programs. Assessment monitoring continues when Appendix II concentrations are above background values but below the GWPS using the statistical procedures in paragraph 113.10(4)g.

If Appendix II constituents are detected at statistically significant levels (SSLs) above the GWPS, characterization [567 IAC 113.10(6)g] is initiated and the owners or operators are required to begin an assessment of corrective measures, select a remedy, and implement a remedy in accordance with 567 IAC 113.10(7), (8), and (9). For remedy completion [567 IAC 113.10(9)e(2)], compliance with the GWPS is considered achieved by demonstrating that concentrations of Appendix II constituents have not exceeded the GWPS for a period of three consecutive years or an alternate length of time established by the IDNR.

Based on the August 2008 through August 2024 results, this memo presents an evaluation of statistically significant increases (SSIs) and SSLs under the requirements of paragraphs 113.10(4)g and h of 567 IAC.

3 Statistical Methodology

The statistical methods utilized for locations in detection, delineation, assessment, and corrective action monitoring were consistent with the methods used in previous statistical evaluations. Detailed descriptions of the statistical methods are provided in Attachment 1. Sanitas® v10.0 (Sanitas Technologies) software was utilized to complete the statistical comparisons.

The combined background data sets (MW-37 and MW-101A for the upper bedrock, and MW-38 and MW-101B for the deeper bedrock) were utilized to evaluate SSIs over background.

3.1 Background Data Set Adjustments

3.1.1 Adjustments Associated with Turbidity and Total Suspended Solids

No background data set adjustments are recommended for MW-37, MW-38, MW-101A, and MW-101B based on review of the field turbidity and total suspended solids (TSS) data from the August 2024 sampling event. The August 2024 TSS concentrations at MW-37, MW-38, MW-101A, and MW-101B were below the 5 mg/L limit for acceptable sample quality.

The background data set adjustments previously recommended and incorporated based on review of turbidity data include:

- Removal of the high volume September 2009 through September 2014 metals data at MW-101A (initiated with Fall 2016 statistical evaluation).
- Removal of the high volume September 2009 through September 2014 and the initial low-flow March 2015 metals data at MW-101B (initiated with Fall 2016 statistical evaluation).
- Removal of the March 2019 barium concentration in MW-38 due to elevated TSS and the potential for turbidity to contribute to the higher barium concentration identified (initiated with Spring 2019 statistical evaluation).
- Removal of the March 2023 barium, cadmium, cobalt, copper, nickel, selenium, and vanadium concentrations in MW-101A due to elevated TSS and the potential for turbidity to contribute to the higher concentrations identified (initiated with the Spring 2023 statistical evaluation).

These data set adjustments were maintained in the current statistical evaluation. The removed background data will be listed as crossed out concentrations in Table 14 of the 2024 AWQR.

Note that the historical high-volume data at the downgradient wells continue to be reviewed on a case-by-case basis. The downgradient data set review is discussed in Section 5.1.

3.1.2 Adjustments Associated with Practical Quantitation Limits

Due to lowering of the practical quantitation limits (PQLs), background data set adjustments were approved to remove earlier non-detect data with elevated PQLs for barium, cobalt, copper, and lead in the upper bedrock and for barium, beryllium, cadmium, cobalt, copper, lead, and nickel in the deeper bedrock due to the increased uncertainty the elevated PQLs added. IDNR approved the background dataset adjustments due to elevated PQLs in the letters dated May 12, 2016 and November 20, 2017 (IDNR, 2016 and 2017). These data set adjustments were maintained in the current statistical evaluation.

3.1.3 Review of Single Background Detections

During the September 2015 event, m/p-cresol and phenol were detected above the laboratory reporting limit at upper bedrock background well MW-37. These two constituents have not been detected in either background well prior to or after the September 2015 event. As a result, m/p-cresol and phenol will not be evaluated using prediction limits unless additional background detections are identified. Downgradient m/p-cresol and phenol results will be evaluated using the double quantification rule (DQR).

Single volatile organic compound (VOC) detections were identified for carbon disulfide and toluene in MW-37 in August 2017. In November 2017, retest samples were collected, which did not confirm the November 2017 detections. As a result, it was determined that MW-37 remained suitable as a background well. The only other detections in MW-37 during the August 2017 event were for barium and cobalt. The August 2017 barium and cobalt concentrations were within the range of historical concentrations for these constituents at MW-37. Therefore, the barium and cobalt results were maintained in the background data set for calculating interwell prediction limits. Since VOCs are considered "never detected" constituents, carbon disulfide and toluene were not added as prediction limit constituents. Downgradient carbon disulfide and toluene results continue to be evaluated using the DQR.

Similarly, single VOC detections were identified for benzene, ethylbenzene, toluene, and total xylenes (BTEX) in MW-37 during the Fall 2018 sampling event. The August 2018 detected metals data at MW-37 was removed from the background dataset due to the potential impact indicated by the BTEX detections. A retest sample was collected for BTEX in background well MW-37 in November 2018. The retest results did not confirm the August 2018 BTEX detections; therefore, SSIs were not declared. In addition, the retest results indicated that MW-37 remained suitable for continued use as a background well for the upper bedrock system. Since VOCs are considered "never detected" constituents, the BTEX constituents were not added as prediction limit constituents. Downgradient BTEX results continue to be evaluated using the DQR.

3.2 Corrective Action Constituents

In accordance with the Unified Guidance (USEPA, 2009), corrective action statistics are conducted for analyte/well pairs with previously identified SSLs, as listed in Table 3. No new corrective action constituents were added based on the results of the previous Spring 2024 statistical evaluation. In addition, no corrective action constituents exited corrective action and returned to an assessment constituent in Fall 2024.

Under corrective action statistics, comparisons to background are not conducted (except for cobalt in the upper bedrock under the corrective action hypothesis, further discussed in Section 5.2); therefore, the analyte/well pairs listed in Table 3 were not included in the Section 4 comparisons to background.

Table 3
Corrective Action Constituents [(1)]

Monitoring Location	Corrective Action Constituents [(2)]
Upper Bedrock Monitoring Locations	
AW-1	Arsenic
AW-2	Arsenic, Thallium
MW-12	Arsenic
MW-13	Arsenic
MW-16	Arsenic
MW-17	Arsenic
MW-20	Thallium
MW-24	Arsenic
MW-30	Arsenic
MW-32	Arsenic
MW-34	Arsenic, Vinyl Chloride
MW-35	Cobalt
MW-105A	Cobalt

Table 3 Continued
Corrective Action Constituents [1]

Monitoring Location	Corrective Action Constituents [2]
Upper Bedrock Monitoring Locations Continued	
MW-106A	Arsenic, Cobalt
Deeper Bedrock Monitoring Locations	
AW-6	Cobalt
CRL-9	Arsenic, Cobalt
MW-14	Arsenic
MW-22	Arsenic, Cobalt
MW-33	Arsenic
MW-36	Arsenic
MW-105B	Cobalt
MW-109B	Arsenic; Cobalt; Thallium

[1] Table 3 lists the analyte/well pairs identified as corrective action constituents regardless of whether the monitoring location was sampled during the current event.
[2] Corrective action constituents are analyte/well pairs with SSLs over the GWPS identified during previous statistical evaluations and have not achieved compliance with the GWPS in accordance with 567 IAC 113.10(9)e(2).

4 Comparison to Background Levels

Comparisons to background levels were conducted using interwell prediction limits and the DQR. As noted in Section 3.2, comparisons to background were not conducted for the corrective action constituents listed in Table 3.

4.1 Interwell Prediction Limits

Interwell prediction limits were used for formal statistical assessment of SSIs over background for analytes that have been detected above the reporting limit in the combined background data set (MW-37 and MW-101A for the upper bedrock system; MW-38 and MW-101B for the deeper bedrock system). For the upper bedrock, these analytes included antimony, arsenic, barium, cobalt, copper, lead, nickel, tin, and zinc. For the deeper bedrock, these analytes included antimony, arsenic, barium, bis(2-ethylhexyl)phthalate, cadmium, cobalt, copper, nickel, tin, and zinc.

4.1.1 Upper Bedrock

The upper bedrock prediction limits calculated utilizing August 2008 through August 2024 sample data are summarized in Table 4. The background data set adjustments discussed in Section 3.1 were utilized.

Table 4
Prediction Limit Summary - Upper Bedrock
Aug. 2008 – Aug. 2024 Interwell Data [1]

Chemical Name	Prediction Limit	Units	Prediction Limit Type	Retesting Plan	Prediction Limit Method
Antimony	0.00739	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Arsenic	0.00205	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Barium	0.1285	mg/L	Parametric (Lognormal)	1-of-2	$\exp(\bar{y} + k \cdot s_y)$
Cobalt	0.008	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Copper	0.0225	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Lead	0.00695	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Nickel	0.0522	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Tin [2]	0.152	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Zinc	0.0805	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic

[1] Interwell data consists of the Appendix I and II parameters that have been detected in the combined background data set (MW-37 and MW-101A). Note that background data set adjustments were incorporated in accordance with Section 3.1.
[2] Tin was included only for assessment and corrective action monitoring locations.

Non-parametric prediction limits were used for antimony, arsenic, cobalt, copper, lead, nickel, tin, and zinc since either normality assumptions could not be met or there were less than 50% detects in the combined background data. A parametric lognormal prediction limit was used with barium since there were greater than 50% detects in the combined background data set, the assumptions of normality were met with a lognormal transformation, and the lognormal limit was accepted as being representative of the background distribution.

4.1.2 Deeper Bedrock

Deeper bedrock prediction limits calculated from August 2008 through August 2024 sample data are summarized in Table 5. The background data set adjustments discussed in Section 3.1 were utilized.

Table 5
Prediction Limit Summary - Deeper Bedrock
Aug. 2008 – Aug. 2024 Interwell Data [1]

Chemical Name	Prediction Limit	Units	Prediction Limit Type	Retesting Plan	Prediction Limit Method
Antimony	0.0101	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Arsenic	0.00225	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Barium	0.138	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Bis(2-ethylhexyl) phthalate [2]	25.4	ug/L	Non-Parametric	1-of-2	Maximum Order Statistic
Cadmium	0.000824	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Cobalt	0.0008717	mg/L	Parametric (Lognormal)	1-of-2	$\exp(\bar{y} + k \cdot s_y)$
Copper	0.0108	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Nickel	0.00735	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Tin [2]	0.109	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic
Zinc	0.0366	mg/L	Non-Parametric	1-of-2	Maximum Order Statistic

[1] Interwell data consists of the Appendix I and II parameters that have been detected in the combined background data set (MW-38 and MW-101B). Note that background data set adjustments were incorporated in accordance with Section 3.1.
[2] Bis(2-ethylhexyl)phthalate and tin were included only for assessment and corrective action monitoring locations.

Non-parametric prediction limits were used for antimony, arsenic, barium, bis(2-ethylhexyl)phthalate, cadmium, copper, nickel, tin, and zinc since either normality assumptions could not be met or there were less than 50% detects in the combined background data. A parametric lognormal prediction limit was used with cobalt since there were greater than 50% detects in the combined background data set, the assumptions of normality were met with a lognormal transformation, and the lognormal limit was accepted as being representative of the background distribution.

4.1.3 Prediction Limit Exceedances

A summary of the monitoring locations exhibiting a prediction limit exceedance during the August 2024 event is given in Table 6 for the upper bedrock system and Table 7 for the deeper bedrock system. Detailed prediction limit output for each analyte/well pair is included in Attachment 2.

Table 6
Aug. 2024 Prediction Limit Exceedances – Upper Bedrock

Prediction Limit	Arsenic (mg/L) 0.00205	Barium (mg/L) 0.1285	Cobalt (mg/L) 0.008	Copper (mg/L) 0.0225	Nickel (mg/L) 0.0522	Zinc (mg/L) 0.0805
Delineation Monitoring Locations - Assessment Constituents						
MW-106A		0.23			0.0555	
MW-107A		0.199				
MW-109A		0.1961				
Assessment Monitoring Locations						
AW-3	0.00251					
AW-4	0.00408			0.0917	0.0894	
AW-5		0.193				
MW-21		0146				
MW-26		0.159				
MW-28		0.206				
VP-3	0.0077	0.774				
VP-4	0.00344					
Corrective Action Locations – Assessment Constituents						
AW-1		0.178				
AW-2		0.468				
MW-12		0.514			0.0822	
MW-13		0.956				
MW-16		0.148				
MW-17		0.145				
MW-20	0.0218	0.161				
MW-24		0.899				
MW-30		0.135				0.158
MW-32		0.886	0.00845		0.0766	
MW-34		0.336				
MW-35	0.00291	0.149				

Table 7
Aug. 2024 Prediction Limit Exceedances - Deeper Bedrock

Prediction Limit	Arsenic (mg/L) 0.00225	Barium (mg/L) 0.138	Cobalt (mg/L) 0.0008717	Nickel (mg/L) 0.00735
Detection Monitoring Location				
None				
Delineation Monitoring Locations – Assessment Constituents				
MW-102B			0.00106	
MW-105B	0.00602			0.0131
MW-107B		0.326	0.00224	0.0113
MW-108B		0.189		
MW-109B		0.681		0.032
Assessment Monitoring Locations				
MW-11			0.00097	
MW-15			0.00515	0.0136
MW-18	0.00347			
MW-19				0.0144
MW-25		0.195		
Corrective Action Monitoring Locations – Assessment Constituents				
AW-6		0.174		0.0286
CRL-9		0.454		0.0173
MW-14		0.736		0.0148
MW-22		0.558		0.0304
MW-33		0.666	0.00139	
MW-36		0.594	0.0013	0.00749

4.2 Double Quantification Rule

The DQR was used to evaluate SSIs over background for the remaining Appendix I and II constituents (i.e., constituents which have not been detected above the reporting limit in the combined background data set). The DQR output is included in Attachment 3, with a summary of the August 2024 DQR detections listed in Table 8 for the upper bedrock wells and in Table 9 for the deeper bedrock wells.

Table 8
Upper Bedrock Double Quantification Rule
Aug. 2024 Detections

Well	Constituent(s)
Delineation Monitoring Locations - Assessment Constituents	
MW-109A	Selenium
Assessment Monitoring Locations	
AW-4	Cadmium
AW-5	Selenium
MW-21	Chlorobenzene; Thallium
Corrective Action Monitoring Locations - Assessment Constituents	
AW-1	1,4-Dichlorobenzene; Chlorobenzene; Thallium
AW-2	1,1-Dichloroethane; Chlorobenzene; cis-1,2-Dichloroethene
MW-12	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Benzene; Chlorobenzene; cis-1,2-Dichloroethene; Thallium

Table 8 Continued
Upper Bedrock Double Quantification Rule
Aug. 2024 Detections

Well	Constituent(s)
Corrective Action Monitoring Locations - Assessment Constituents Continued	
MW-13	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Benzene; Chlorobenzene
MW-16	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Benzene; Chlorobenzene
MW-24	1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Benzene; Chlorobenzene
MW-30	1,1-Dichloroethane; Benzene; Chloroethane; cis-1,2-Dichloroethene; Vinyl Chloride
MW-32	1,4-Dichlorobenzene; Benzene; Chlorobenzene
MW-34	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Benzene; Chlorobenzene; Toluene
MW-35	Selenium

Table 9
Deeper Bedrock Double Quantification Rule
Aug. 2024 Detections

Well	Constituent(s)
Detection Monitoring Locations	
None	
Delineation Monitoring Locations - Assessment Constituents	
MW-105B	1,1-Dichloroethane
MW-107B	Thallium
MW-109B	1,4-Dichlorobenzene; Chlorobenzene
Assessment Monitoring Locations	
MW-11	1,1-Dichloroethane
MW-25	cis-1,2-Dichloroethene
Corrective Action Monitoring Locations (Assessment Constituents)	
AW-6	1,1-Dichloroethane
CRL-9	Benzene
MW-14	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Benzene; Chlorobenzene
MW-22	1,1-Dichloroethane; 1,4-Dichlorobenzene; Chlorobenzene
MW-33	1,4-Dichlorobenzene; Chlorobenzene
MW-36	1,4-Dichlorobenzene; Chlorobenzene

4.3 Summary of Comparison to Background

4.3.1 Detection Monitoring Locations

No wells in the upper bedrock system are in detection monitoring. For the deeper bedrock system, no prediction limit exceedances or DQR detections were identified at MW-31.

4.3.2 Delineation Monitoring Locations – Assessment Constituents

For the upper bedrock system, no prediction limit exceedances or DQR detections were identified at MW-105A. Prediction limit exceedances were identified at MW-106A, MW-107A, and MW-109A as listed in Table 6. As indicated in Table 8, a DQR detection was identified at MW-109A. In lieu of retesting for the prediction limit exceedances and DQR detection, SSIs were declared and evaluated for SSLs in Section 5.

For the deeper bedrock system, prediction limit exceedances were identified at MW-102B, MW-105B, MW-107B, MW-108B, and MW-109B as listed in Table 7. A prediction limit exceedance was not identified for arsenic at MW-104B. DQR detections were identified at MW-105B, MW-107B, and MW-109B as listed in Table 9. In lieu of retesting for the prediction limit exceedances and DQR detections, SSIs were declared and evaluated for SSLs in Section 5.

4.3.3 Assessment Monitoring Locations

For the upper bedrock system, no prediction limit exceedances or DQR detections were identified at MW-23. Prediction limit exceedances were identified at AW-3, AW-4, AW-5, MW-21, MW-26, MW-28, VP-3, and VP-4 as listed in Table 6. DQR detections were identified at AW-4, AW-5, and MW-21as listed in Table 8. In lieu of retesting for the prediction limit exceedances and DQR detections, SSIs were declared and evaluated for SSLs in Section 5.

For the deeper bedrock system, prediction limit exceedances were identified at MW-11, MW-15, MW-18, MW-19, and MW-25 as listed in Table 7. DQR detections were identified at MW-11 and MW-25 as listed on Table 9. In lieu of retesting for the prediction limit exceedances and DQR detection, SSIs were declared and evaluated for SSLs in Section 5.

4.3.3.1 Exiting Assessment Monitoring

Table 10 presents a summary of the assessment monitoring locations and statistical comparisons required for exiting assessment monitoring. As discussed in Section 1, assessment monitoring locations will return to detection monitoring when Appendix II constituents fall below the current interwell prediction limit (for constituents which are detected in the background data set) and below the laboratory reporting limit (for constituents which are not detected in the background data set) for three consecutive sampling events. At MW-26, retriggered baseline assessment monitoring was initiated in January 2023. Evaluations to exit assessment monitoring were initiated with the Fall 2023 statistical evaluation since three samples have been collected in assessment monitoring. Note that MW-26 was the only upper and deeper bedrock assessment monitoring well that was sampled during the January and March 2023 sampling events.

Table 10
Evaluation to Exit Assessment Monitoring
All Appendix II Constituents Below Background

Monitoring Location	Aug. 2022	Jan. 2023	Mar. 2023	Aug. 2023	Aug. 2024
Upper Bedrock					
AW-3	No	N/A	N/A	No	No
AW-4	No	N/A	N/A	No	No
AW-5	No	N/A	N/A	No	No
MW-21	No	N/A	N/A	No	No
MW-23	No	N/A	N/A	No	**Yes**
MW-26	N/A	No	No	No	No
MW-28	No	N/A	N/A	No	No
VP-3	No	N/A	N/A	No	No
VP-4	No	N/A	N/A	No	No

Table 10 Continued
Evaluation to Exit Assessment Monitoring
All Appendix II Constituents Below Background

Monitoring Location	Aug. 2022	Jan. 2023	Mar. 2023	Aug. 2023	Aug. 2024
Deeper Bedrock					
MW-11	No	N/A	N/A	**Yes**	No
MW-15	No	N/A	N/A	No	No
MW-18	No	N/A	N/A	**Yes**	No
MW-19	No	N/A	N/A	No	No
MW-25	No	N/A	N/A	No	No

N/A = not applicable; location was either not sampled or not included in the evaluation to exit assessment monitoring.

As shown in Table 10, the upper and deeper bedrock assessment monitoring locations have not had all Appendix II constituents below background values for three consecutive sampling events. Therefore, these locations will not exit assessment monitoring at this time.

4.3.4 Corrective Action Monitoring Locations – Assessment Constituents

For the upper bedrock system, prediction limit exceedances were identified at AW-1, AW-2, MW-12, MW-13, MW-16, MW-17, MW-20, MW-24, MW-30, MW-32, MW-34, and MW-35 as listed on Table 6. DQR detections were identified at AW-1, AW-2, MW-12, MW-13, MW-16, MW-24, MW-30, MW-32, MW-34 and MW-35 as listed on Table 8. In lieu of retesting for the prediction limit exceedances and DQR detections, SSIs were declared and evaluated for SSLs in Section 5.

For the deeper bedrock system, prediction limit exceedances and DQR detections were identified at AW-6, CRL-9, MW-14, MW-22, MW-33, and MW-36 as listed in Tables 7 and 9. In lieu of retesting for the prediction limit exceedances and DQR detections, SSIs were declared and evaluated for SSLs in Section 5.

5 Comparison to Groundwater Protection Standard

The prediction limit exceedances and DQR detections listed in Tables 6 through 9 were declared SSIs and evaluated for SSLs over the GWPS per 567 IAC 113.10(6)f and g. Comparisons to the GWPS were evaluated through statistical confidence intervals under the assessment monitoring null hypothesis. SSLs were declared to exist with statistical certainty when the lower confidence limit exceeds the GWPS. Statistical outputs for confidence intervals in assessment mode are included in Attachment 4.

In contrast, corrective action analyte/well pairs (i.e., those where SSLs have been previously declared) were evaluated to determine compliance with the GWPS per 567 IAC 113.10(9)e. A summary of the upper and deeper bedrock corrective action constituents was provided in Table 3. Comparisons to the GWPS in this case were evaluated through statistical confidence intervals under the corrective action monitoring null hypothesis, or in the case of downward trending data, confidence bands (upper 95% confidence limits) placed around the linear trend line. For corrective action constituents, compliance with the GWPS has been achieved with statistical certainty when the UCL or the upper 95% confidence limit on the trend line is lower than the GWPS for a period of three consecutive years or an alternate length of time established by the IDNR. Statistical outputs for regression statistics, confidence bands, and confidence intervals in corrective action mode are included in Attachment 5.

5.1 Compliance Data Set Review for Confidence Intervals

5.1.1 Adjustments Due to Changes in PQLs

As noted in Section 3.1, downgradient data set adjustments were approved to remove earlier non-detect data with elevated PQLs for upper bedrock cobalt data at AW-5, MW-13, MW-17, MW-23, and MW-35; to remove earlier non-detect and J-flagged data with elevated PQLs for deeper bedrock cobalt data at AW-6, CRL-9, MW-11, MW-14, MW-15, MW-22, MW-33 MW-36, MW-102B, MW-105B, and MW-107B; and to remove earlier non-detect and J-flagged data with elevated PQLs for the deeper bedrock nickel data at AW-6, CRL-9, MW-14, MW-15, MW-18, MW-19, MW-22, MW-33, and MW-36 due to the increased uncertainty the elevated PQLs added. IDNR approved the downgradient cobalt dataset adjustments due to elevated PQLs in the letters dated May 12, 2016 and November 20, 2017 (IDNR, 2016 and 2017). These data set adjustments were maintained in the current statistical evaluation.

5.1.2 Adjustments Due to Sampling Technique Changes

As noted in Section 3.1, the downgradient metals data sets continued to be reviewed on a case-by-case basis to determine whether data set adjustments are recommended based on the change in sampling technique from high-volume to low-flow sampling methods. In the letter dated November 20, 2017 (IDNR, 2017), IDNR concurred with the strategy to analyze wells on a case-by-case basis for a statistical correlation between newer and older sampling techniques.

No data set adjustments are currently recommended for the SSIs listed in Tables 6 through 9 and the corrective action constituents in Table 3. To date, downgradient data set adjustments include removal of the high-volume August 2008 through September 2014 zinc data at AW-7, MW-20, and MW-30 and removal of the high-volume August 2008 through September 2014 nickel data at MW-13. IDNR approved the zinc and nickel data set adjustments in the letter dated November 20, 2017 (IDNR, 2017). These data set adjustments were maintained in the current statistical evaluation.

5.1.3 Adjustments Due to Exiting Corrective Action

As further detailed in Attachment 1, the historical data prior to when statistical compliance with the GWPS was first achieved will be removed when analyte/well pairs exit corrective action and return to assessment constituents. Nickel in MW-12; cobalt, nickel, and vinyl chloride in MW-13; cobalt in MW-23; and arsenic in VP-3 exited corrective action and returned to assessment constituents during the Fall 2019 or Spring 2020 statistical evaluations. Cobalt in AW-5 and MW-17 exited corrective action and returned to assessment constituents during the Fall 2020 statistical evaluation. Arsenic in MW-20 exited corrective action and returned to an assessment constituent during the Fall 2023 statistical evaluation. Compliance with the GWPS was first achieved in Spring 2015 for nickel in MW-12 and vinyl chloride in MW-13; in Fall 2016 for cobalt and nickel in MW-13 and cobalt in MW-23; in Spring 2017 for arsenic in VP-3; in Fall 2017 for cobalt in AW-5 and MW-17, and in Spring 2020 for arsenic in MW-20. The historical data prior to these initial compliance dates have been removed.

The following data set adjustments due to exiting corrective action were maintained for Site 1:

- Removal of the Sep. 2010 through March 2017 cobalt data in AW-5. Note that earlier non-detect cobalt data had already been removed as discussed in Section 5.1.1.
- Removal of the Aug. 2008 through Sep. 2014 nickel data in MW-12.
- Removal of the Sep. 2009 through Mar. 2016 cobalt data in MW-13.

- Removal of the Mar. 2015 through Mar. 2016 nickel data in MW-13. Note that nickel data prior to Mar. 2015 had already been removed as discussed in Section 5.1.2.
- Removal of the Aug. 2008 through Sep. 2014 vinyl chloride data in MW-13.
- Removal of the Sep. 2009 through March 2017 cobalt data in MW-17. Note that earlier non-detect cobalt data had already been removed as discussed in Section 5.1.1.
- Removal of the Aug. 2008 through Aug. 2019 arsenic data in MW-20.
- Removal of the Sep. 2010 through Mar. 2016 cobalt data in MW-23. Note that earlier non-detect cobalt data had already been removed as discussed in Section 5.1.1.
- Removal of the Aug. 2008 through Aug. 2016 arsenic data in VP-3.

5.2 Background as the Cobalt GWPS

Background cobalt concentrations in the upper bedrock data set exceeded the 567 IAC Chapter 137 Statewide Standard. Therefore, pursuant to 567 IAC 113.10(6)h, the GWPS for cobalt becomes background. The GWPS for cobalt in corrective action monitoring was evaluated with the statistical methods described in Attachment 1 and as recommended in the Unified Guidance (USEPA, 2009). Both the prediction limit (i.e., *two-sample*) and confidence interval (i.e., *one-sample*) methods were evaluated. Where concentration shifts were detected in the data, the *one-sample* confidence interval method was evaluated utilizing the linear trend line approach further detailed in Section 5.3 below. With background as the GWPS, the upper confidence limit is compared to the background upper tolerance limit with 95% confidence and 95% coverage (discussed in detail in Attachment 1).

Statistical outputs for the prediction limit and confidence interval methods with background as the GWPS for cobalt in upper bedrock wells MW-35, MW-105A, and MW-106A are included in Attachment 5. Note that the confidence interval method for cobalt in MW-35 and MW-105A was evaluated as 90% confidence bands placed around the linear trend line due to statistically significant decreasing trends identified at these locations, as further discussed in Section 5.3 below.

5.3 Data Concentration Shifts During Corrective Action

Statistically significant decreasing linear trends continued to be identified for arsenic in AW-1 (since 2008), in MW-12 (since 2008), in MW-17 (since 2018), in MW-24 (since 2012), in MW-30 (since 2008), in MW-34 (since 2011), and in MW-106A (since 2014); for cobalt in MW-35 (since 2012), in MW-105A (since 2013), and in MW-109B (since 2017); for thallium in AW-2 (since 2013) and MW-20 (since 2012); and for vinyl chloride in MW-34 (since 2008). Consistent with previous memos, 90% confidence bands (upper 95% confidence limits) placed around the linear trend line were used since significantly decreasing linear trends were identified for these well/analyte pairs.

With this method for upper bedrock cobalt, the GWPS was calculated as the background upper tolerance limit with 95% confidence and 95% coverage. Regression statistics and confidence band outputs for these analyte/well pairs are provided in Attachment 5.

The upper 95% confidence limit remained below the GWPS for cobalt in MW-35. In addition, cobalt in MW-105A and thallium in MW-20 newly achieved compliance with the GWPS during this (Fall 2024) statistical evaluation. Conversely, the upper 95% confidence limits were above the GWPS for arsenic in AW-1, MW-12, MW-17, MW-24, MW-30, MW-34, and MW-106A; for cobalt in MW-109B; for thallium in AW-2; and for vinyl chloride in MW-34.

5.4 First Order Regression Calculations

Table 11 of the AWQR lists a projected year to completion for each analyte/well pair in corrective action (i.e., those listed in Table 3 of this memo). As initiated with the Fall 2019 statistical evaluation, remedy completion timeframes were estimated for the individual analyte/well pairs in corrective action for inclusion in Table 11 of the 2024 AWQR.

For the corrective action constituents that have achieved compliance with the GWPS (i.e., cobalt in MW-35 and MW-105A and thallium in MW-20), first order regression calculations were not utilized. The projected year to completion is three years after compliance with the GWPS was first statistically achieved and will remain that date as long as concentrations remain statistically below the GWPS during the interim statistical evaluations.

For the remaining corrective constituents (i.e., those that have not achieved compliance with the GWPS), the projected year to completion was based on the first order regression calculations for each individual analyte/well pair. The projected years to completion are three years after the first order regression calculations projected initial compliance with the GWPS. For the corrective action constituents with decreasing trends, the first order regression calculations and projected year to completion are included in the regression statistics output in Attachment 5. The first order regression calculations for the remaining corrective action constituents are included on "Sample Values and Corresponding 1st-Order Regression Calculations for Date to Completion" table in Attachment 5.

5.5 SSL Summary

Confidence interval output for the upper and deeper bedrock assessment constituents is included in Attachment 4, and for the upper and deeper bedrock corrective action constituents is included in Attachment 5. The results for the upper bedrock are summarized in Table 11 and the results for the deeper bedrock are summarized in Table 11.

Table 11
Upper Bedrock SSL Summary
Aug. 2008 – Aug. 2024 Appendix II Data

Chemical Name	Wells with SSL (1)	SSL Not Identified or Rejected (1)	GWPS (2)
Delineation Monitoring Locations - Assessment Constituents			
Barium (mg/L)		MW-106A, MW-107A, MW-109A	2
Nickel (mg/L)		MW-106A	0.1
Selenium (mg/L)		MW-109A	0.05
Assessment Monitoring Locations			
Arsenic (mg/L)		AW-3, AW-4, VP-3, VP-4	0.01
Barium (mg/L)		AW-5, MW-21, MW-26, MW-28, VP-3	2
Cadmium (mg/L)		AW-4	0.005
Chlorobenzene (ug/L)		MW-21	100
Copper (mg/L)		AW-4	1.3
Nickel (mg/L)		AW-4	0.1
Selenium (mg/L)		AW-5	0.05
Thallium (mg/L)		MW-21	0.002

Table 11 Continued
Upper Bedrock SSL Summary
Aug. 2008 – Aug. 2024 Appendix II Data

Chemical Name	Wells with SSL [1]	SSL Not Identified or Rejected [1]	GWPS [2]
Corrective Action Monitoring Locations - Assessment Constituents			
1,1-Dichloroethane (ug/L)		AW-2, MW-12, MW-13, MW-16, MW-30, MW-34	140
1,2-Dichlorobenzene (ug/L)		MW-12, MW-13, MW-16, MW-24, MW-34	600
1,4-Dichlorobenzene (ug/L)		AW-1, MW-12, MW-13, MW-16, MW-24, MW-32, MW-34	75
Arsenic (mg/L)		MW-20, MW-35	0.01
Barium (mg/L)		AW-1, AW-2, MW-12, MW-13, MW-16, MW-17, MW-20, MW-24, MW-30, MW-32, MW-34, MW-35	2
Benzene (ug/L)		MW-12, MW-13, MW-16, MW-24, MW-30, MW-32, MW-34	5
Chlorobenzene (ug/L)		AW-1, AW-2, MW-12, MW-13, MW-16, MW-24, MW-32, MW-34	100
Chloroethane (ug/L)		MW-30	2800
cis-1,2-Dichloroethene (ug/L)		AW-2, MW-12, MW-30	70
Nickel (mg/L)		MW-12, MW-32	0.1
Selenium		MW-35	0.05
Thallium (mg/L)		AW-1, MW-12	0.002
Toluene (ug/L)		MW-34	100
Vinyl Chloride (ug/L)		MW-30	2
Zinc (mg/L)		MW-30	2
Corrective & Delineation Action Monitoring Locations – Corrective Action Constituents Continued			
Arsenic (mg/L)	AW-1, AW-2, MW-12, MW-13, MW-16, MW-17, MW-24, MW-30, MW-32, MW-34, MW-106A		0.01
Cobalt (mg/L)	MW-106A (Both Methods)	MW-35, MW-105A (Both Methods)	0.008 [3]
Thallium (mg/L)	AW-2	MW-20	0.002
Vinyl Chloride (ug/L)	MW-34		2

[1] Under the assessment null hypothesis, an SSL is indicated when the lower confidence limit exceeds the GWPS. Under corrective action null hypothesis, an SSL remains when the upper confidence limit exceeds the GWPS.
[2] Values are the 40 CFR Part 141 Safe Drinking Water Act MCL or the 567 IAC Chapter 137 Statewide Standard for a Protected Groundwater Source.
[3] GWPS for cobalt is background. The hypothesis was evaluated through the both the two-sample prediction limit method (GWPS = 0.008 mg/L) and the *one-sample* confidence limit method where the fixed GWPS was based on the background upper tolerance limit with 95% confidence and 95% coverage (GWPS = 0.008 mg/L).

Table 12
Deeper Bedrock SSL Summary
Aug. 2008 – Aug. 2024 Appendix II Data

Chemical Name	Wells with SSL [1]	SSL Not Identified or Rejected [1]	GWPS [2]
Delineation Monitoring Locations – Assessment Constituents			
1,1-Dichloroethane (ug/L)		MW-105B	140
1,4-Dichlorobenzene (ug/L)		MW-109B	75
Arsenic (mg/L)		MW-105B	0.01

Table 12 Continued
Deeper Bedrock SSL Summary
Aug. 2008 – Aug. 2024 Appendix II Data

Chemical Name	Wells with SSL [1]	SSL Not Identified or Rejected [1]	GWPS [2]
Delineation Monitoring Locations – Assessment Constituents			
Barium (mg/L)		MW-107B, MW-108B, MW-109B	2
Chlorobenzene (ug/L)		MW-109B	100
Cobalt (mg/L)		MW-102B, MW-107B	0.0021
Nickel (mg/L)		MW-105B, MW-107B, MW-109B	0.1
Thallium (mg/L)		MW-107B	0.002
Assessment Monitoring Locations			
1,1-Dichloroethane (ug/L)		MW-11	140
Arsenic (mg/L)		MW-18	0.01
Barium (mg/L)		MW-25	2
cis-1,2-Dichloroethene (ug/L)		MW-25	70
Cobalt (mg/L)		MW-11, MW-15	0.0021
Nickel (mg/L)		MW-15, MW-19	0.1
Corrective Action Monitoring Locations – Assessment Constituents			
1,1-Dichloroethane (ug/L)		AW-6, MW-14, MW-22	140
1,2-Dichlorobenzene (ug/L)		MW-14	600
1,4-Dichlorobenzene (ug/L)		MW-14, MW-22, MW-33, MW-36	75
Barium (mg/L)		AW-6, CRL-9, MW-14, MW-22, MW-33, MW-36	2
Benzene (ug/L)		CRL-9, MW-14	5
Chlorobenzene (ug/L)		MW-14, MW-22, MW-33, MW-36	100
Cobalt (mg/L)		MW-33, MW-36	0.0021
Nickel (mg/L)		AW-6, CRL-9, MW-14, MW-22, MW-36	0.1
Corrective & Delineation Action Monitoring Locations – Corrective Action Constituents			
Arsenic (mg/L)	CRL-9, MW-14, MW-22, MW-33, MW-36, MW-109B		0.01
Cobalt (mg/L)	AW-6, CRL-9, MW-22, MW-105B, MW-109B		0.0021
Thallium (mg/L)	MW-109B		0.002

[1] Under the assessment null hypothesis, an SSL is indicated when the lower confidence limit exceeds the GWPS. Under corrective action null hypothesis, an SSL remains when the upper confidence limit exceeds the GWPS.
[2] Values are the 40 CFR Part 141 Safe Drinking Water Act MCL or the 567 IAC Chapter 137 Statewide Standard for a Protected Groundwater Source.

5.6 Summary of Comparison to Groundwater Protection Standard

5.6.1 Delineation Monitoring Locations

No SSLs were identified for the assessment constituents in the upper bedrock delineation monitoring locations. Cobalt in MW-105A and arsenic and cobalt in MW-106A were evaluated as corrective action constituents. Cobalt in MW-105A newly achieved compliance with the GWPS during this (Fall 2024) statistical evaluation. In accordance with IAC 113.10(9)e(2), cobalt in MW-105A will return to an assessment constituent in 2027 if the constituent/well pair remains below the GWPS in the interim statistical evaluations. SSLs continued to be identified for arsenic and cobalt in MW-106A; therefore, compliance with the GWPS has not been achieved. Note that a statistically significant decreasing trend was identified for arsenic in MW-106A.

No SSLs were identified for the assessment constituents in the deeper bedrock delineation monitoring locations. Cobalt in MW-105B and arsenic, cobalt, and thallium in MW-109B were evaluated as corrective action constituents. SSLs continued to be identified for these analyte/well pairs; therefore, compliance with the GWPS has not been achieved. Note that a statistically significant decreasing trend was identified for cobalt in MW-109B.

5.6.2 Assessment Monitoring Locations

No SSLs were identified in the upper or deeper bedrock assessment monitoring locations.

5.6.3 Corrective Action Monitoring Locations

No SSLs were identified for the assessment constituents in the upper and deeper bedrock corrective action monitoring locations.

For the upper bedrock corrective action constituents listed in Table 3, SSLs over the GWPS remained for arsenic in AW-1, AW-2, MW-12, MW-13, MW-16, MW-17, MW-24, MW-30, MW-32, and MW-34; for thallium in AW-2; and for vinyl chloride in MW-34. While compliance with the GWPS was not achieved, statistically significant decreasing trends were identified for arsenic in AW-1, MW-12, MW-17, MW-24, MW-30, and MW-34; thallium in AW-2; and vinyl chloride in MW-34.

Compliance with the GWPS was achieved for cobalt in MW-35 starting with the Fall 2022 statistical evaluation and remained during the current statistical evaluation. Therefore, in accordance with 567 IAC 113.10(9)e(2), cobalt in MW-35 will return to an assessment constituent in 2025 since compliance with the GWPS was maintained for three consecutive years. Since cobalt is the only corrective action constituent in MW-35, MW-35 will return to an assessment monitoring location in 2025. In addition, thallium in MW-20 newly achieved compliance with the GWPS during this (Fall 2024) statistical evaluation. In accordance with IAC 113.10(9)e(2), thallium in MW-20 will return to an assessment constituent in 2027 if the constituent/well pair remains below the GWPS in the interim statistical evaluations.

For the deeper bedrock corrective action constituents listed in Table 3, SSLs continued to be identified for arsenic in CRL-9, MW-14, MW-22, MW-33, and MW-36; and for cobalt in AW-6, CRL-9, and MW-22.

6 Effective Power and Site-Wide False Positive Rate

Statistical power calculations, effective power curves for the 1-of-2 prediction limit plan, and the current site-wide false positive rate (SWFPR) are discussed in detail in Attachment 6. Based on the power curves, the parametric and non-parametric prediction limits have good power. The current cumulative annual SWFPR for the plan is approximately 24%. The current annual SWFPR is higher than the Unified Guidance target 10% false positive rate due to moving from a 1-of-3 to the 1-of-2 prediction plan starting with the Spring 2021 statistical evaluation and the relatively large number of downgradient comparisons with non-parametric prediction limits. Given the number of non-parametric prediction limit evaluations, a background sample size of approximately 80-90 is needed to reduce the SWFPR once again to the 10% target level.

Statistical power calculations for confidence limits compared to the GWPS under assessment monitoring (or assessment mode under corrective action) are included in the confidence interval output of Attachment 4. Details regarding the purpose and procedures for these calculations are provided in Attachment 1. Confidence limits are calculated to meet statistical power levels of 50% for increases in the true concentration mean of 1.5 times a fixed standard,

and 80% for increases in the true concentration mean of 2.0 times a fixed standard, as discussed in Unified Guidance Chapter 22 (USEPA, 2009).

7 Conclusions

The methodology described in Attachment 1 was utilized to conduct the statistical evaluations for the upper and deeper bedrock locations in the delineation and corrective action monitoring programs.

In August 2024, semiannual corrective action, background, and delineation monitoring was conducted at upper bedrock wells MW-12, MW-13, MW-16, MW-17, MW-32, MW-37, and MW-101A and deeper bedrock wells MW-14, MW-33, MW-38, MW-101B, and MW-109B. In accordance with Permit Amendment #16, annual detection, assessment, corrective action, and delineation monitoring was also conducted in August 2024 at upper bedrock wells AW-1, AW-2, AW-3, AW-4, AW-5, MW-20, MW-21, MW-23, MW-24, MW-26, MW-28, MW-30, MW-34, MW-35, VP-3, VP-4, MW-105A, MW-106A, MW-107A, and MW-109A and deeper bedrock wells AW-6, CRL-9, MW-11, MW-15, MW-18, MW-19, MW-22, MW-25, MW-31, MW-36, MW-102B, MW-104B, MW-105B, MW-107B, and MW-108B.

7.1 Upper Bedrock Monitoring Locations

A summary of the Fall 2024 statistical evaluation results for the upper bedrock system is presented in Table 13.

Table 13
Summary of the Fall 2024 Evaluation - Upper Bedrock

Monitoring Location	Monitoring Program	Current Schedule [1] (Aug. 2024)	Current SSIs	Corrective Action Constituents		Retesting Parameter	Monitoring Program Changes
				Current SSLs [2]	Achieved Compliance with GWPS		
Downgradient Monitoring Locations							
AW-1	Corrective Action	Appendix II	1,4-Dichlorobenzene; Barium; Chlorobenzene; Thallium	Arsenic			
AW-2	Corrective Action	Appendix II	1,1-Dichloroethane; Barium; Chlorobenzene; cis-1,2-Dichloroethene	Arsenic; Thallium			
AW-3	Assessment	Appendix II	Arsenic				
AW-4	Assessment	Appendix II	Arsenic; Cadmium; Copper; Nickel				
AW-5	Assessment	Appendix II	Barium; Selenium				
MW-12	Corrective Action	Appendix II	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; cis-1,2-Dichloroethene; Nickel; Thallium	Arsenic			
MW-13	Corrective Action	Appendix II	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene	Arsenic			
MW-16	Corrective Action	Appendix II	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene	Arsenic			
MW-17	Corrective Action	Appendix II	Barium	Arsenic			
MW-20	Corrective Action	Appendix II	Arsenic; Barium		Thallium		
MW-21	Assessment	Appendix II	Barium; Chlorobenzene; Thallium				
MW-23	Assessment	Appendix II					
MW-24	Corrective Action	Appendix II	1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene	Arsenic			
MW-26	Assessment	Appendix II	Barium				
MW-28	Assessment	Appendix II	Barium				
MW-30	Corrective Action	Appendix II	1,1-Dichloroethane; Barium; Benzene; Chloroethane; cis-1,2-Dichloroethene; Vinyl Chloride; Zinc	Arsenic			
MW-32	Corrective Action	Appendix II	1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; Cobalt; Nickel	Arsenic			
MW-34	Corrective Action	Appendix II	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; Toluene	Arsenic; Vinyl Chloride			

Table 13 Continued
Summary of the Fall 2024 Evaluation - Upper Bedrock

Monitoring Location	Monitoring Program	Current Schedule [1] (Aug. 2024)	Current SSIs	Corrective Action Constituents		Retesting Parameter	Monitoring Program Changes
				Current SSLs [2]	Achieved Compliance with GWPS		
Downgradient Monitoring Locations Continued							
MW-35	Corrective Action	Appendix II	Arsenic; Barium; Selenium		Cobalt		Assessment
VP-3	Assessment	Appendix II	Arsenic; Barium				
VP-4	Assessment	Appendix II	Arsenic				
Background Monitoring Locations							
MW-37	Background	Appendix II					
MW-101A	Background	Appendix II					
Delineation Monitoring Locations							
MW-105A	Delineation	Appendix I			Cobalt		
MW-106A	Delineation	Appendix I	Barium; Nickel	Arsenic; Cobalt			
MW-107A	Delineation	Appendix I	Barium				
MW-109A	Delineation	Appendix I	Barium; Selenium				

[1] Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Aug. 2024.

[2] Analyte/well pairs with SSLs over the GWPS identified during previous statistical evaluations and have not achieved compliance with the GWPS for 3 consecutive years in accordance with 567 IAC 113.10(9)e(2).

7.1.1 Delineation Monitoring

In August 2024, annual delineation monitoring for the Appendix I list was conducted at MW-105A, MW-106A, MW-107A, and MW-109A. The SSIs identified for the assessment constituents in the upper bedrock delineation monitoring locations are summarized in Table 13. No SSLs were identified for the assessment constituents in the upper bedrock delineation monitoring locations.

Cobalt in MW-105A and arsenic and cobalt in MW-106A were evaluated as corrective action constituents due to previously identified SSLs for these analyte/well pairs. The GWPS for cobalt was taken as background since background cobalt concentrations exceeded the 567 IAC Chapter 137 Statewide Standard for a Protected Groundwater Source. Both the *two-sample* prediction limit and the *one-sample* confidence interval or confidence band on the linear trend line testing methods were utilized to compare cobalt in MW-105A and MW-106A to the background GWPS. Compliance with the GWPS was newly achieved for cobalt in MW-105A during this (Fall 2024) statistical evaluation. In accordance with IAC 113.10(9)e(2), cobalt in MW-105A will return as an assessment constituent in 2027 if the constituent/well pair remains below the GWPS in the interim statistical evaluations. SSLs continued to be identified for arsenic and cobalt in MW-106A; therefore, compliance with the GWPS has not been achieved. Note that a statistically significant decreasing trend was identified for arsenic in MW-106A.

Annual delineation monitoring for the Appendix I list will be conducted at MW-105A, MW-106A, MW-107A, and MW-109A in Fall 2025.

7.1.2 Assessment Monitoring

In August 2024, annual assessment monitoring for Appendix I and detected Appendix II constituents was conducted at AW-3, AW-4, AW-5, MW-21, MW-23, MW-26, MW-28, VP-3, and VP-4.

The SSIs identified at the upper bedrock assessment monitoring locations are summarized in Table 13. No SSLs were identified for the upper bedrock assessment monitoring locations.

The Fall 2024 statistical evaluation did not identify upper bedrock assessment monitoring locations with all Appendix II constituents below the interwell prediction limit or laboratory reporting limit for three consecutive sampling events. As a result, none of the upper bedrock locations may exit assessment monitoring at this time.

Annual assessment monitoring for Appendix I and detected Appendix II constituents will be conducted at MW-26 in Fall 2025. In accordance with Permit Amendment #6, the next five-year resampling for the full Appendix II list will be conducted at AW-3, AW-4, AW-5, MW-21, MW-23, MW-28, VP-3, and VP-4 in Fall 2025 and at MW-26 in Fall 2028.

7.1.3 Corrective Action Monitoring

In August 2024, semiannual corrective action monitoring was conducted at MW-12, MW-13, MW-16, MW-17, and MW-32 and annual corrective action monitoring was conducted at AW-1, AW-2, MW-20, MW-24, MW-30, MW34, and MW-35 for the Appendix I and detected Appendix II constituents.

The SSIs identified for the assessment constituents in the upper bedrock corrective action monitoring locations are summarized in Table 13. No SSLs were identified for the assessment constituents in the upper bedrock corrective action monitoring locations.

For the upper bedrock corrective action constituents listed in Table 3, SSLs over the GWPS remained for arsenic in AW-1, AW-2, MW-12, MW-13, MW-16, MW-17, MW-24, MW-30, MW-32, and MW-34; for thallium in AW-2; and for vinyl chloride in MW-34. While compliance with the GWPS was not achieved, statistically significant decreasing trends were identified for arsenic in AW-1, MW-12, MW-17, MW-24, MW-30, and MW-34; thallium in AW-2; and vinyl chloride in MW-34.

Compliance with the GWPS was achieved for cobalt in MW-35 starting with the Fall 2022 statistical evaluation and remained during the current statistical evaluation. Therefore, in accordance with 567 IAC 113.10(9)e(2), cobalt in MW-35 will return to an assessment constituent in 2025 since compliance with the GWPS was maintained for three consecutive years. Since cobalt is the only corrective action constituent in MW-35, MW-35 will return to an assessment monitoring location in 2025. In addition, compliance with the GWPS was newly achieved for thallium in MW-20 during this (Fall 2024) statistical evaluation. In accordance with IAC 113.10(9)e(2), thallium in MW-20 will return as an assessment constituent in 2027 if the constituent/well pair remains below the GWPS in the interim statistical evaluations.

Semiannual corrective action monitoring for the Appendix I and detected Appendix II constituents will be conducted at MW-12, MW-13, MW-16, MW-17, and MW-32 in Spring 2025. In accordance with Permit Amendment #6, the next five-year resampling for the full Appendix II list will be conducted at the corrective action monitoring locations in Fall 2025.

7.1.4 Background Monitoring

Semiannual background monitoring for the Appendix I and detected Appendix II constituents was conducted at MW-37 and MW-101A in August 2024. Semiannual background monitoring for the Appendix I and detected Appendix II constituents will be continued at MW-37 and MW-101A in Spring 2025. In Fall 2025, background wells MW-37 and MW_101A will also be resampled for the full Appendix II list.

7.2 Deeper Bedrock Monitoring Locations

A summary of the Fall 2024 statistical evaluation results for the deeper bedrock system is presented in Table 14.

Table 14
Summary of the Fall 2024 Evaluation - Deeper Bedrock

Monitoring Location	Monitoring Program	Current Schedule [1] (Aug. 2024)	Current SSIs	Corrective Action Constituents		Retesting Parameter	Monitoring Program Changes
				Current SSLs [2]	Achieved Compliance with GWPS		
Downgradient Monitoring Locations							
AW-6	Corrective Action	Appendix II	1,1-Dichloroethane; Barium; Nickel	Cobalt			
CRL-9	Corrective Action	Appendix II	Barium; Benzene; Nickel	Arsenic; Cobalt			
MW-11	Assessment	Appendix II	1,1-Dichloroethane; Cobalt				
MW-14	Corrective Action	Appendix II	1,1-Dichloroethane; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; Barium; Benzene; Chlorobenzene; Nickel	Arsenic			
MW-15	Assessment	Appendix II	Cobalt; Nickel				
MW-18	Assessment	Appendix II	Arsenic				
MW-19	Assessment	Appendix II	Nickel				
MW-22	Corrective Action	Appendix II	1,1-Dichloroethane; 1,4-Dichlorobenzene; Barium; Chlorobenzene; Nickel	Arsenic; Cobalt			
MW-25	Assessment	Appendix II	Barium; cis-1,2-Dichloroethene				
MW-31	Detection	Appendix I					
MW-33	Corrective Action	Appendix II	1,4-Dichlorobenzene; Barium; Chlorobenzene; Cobalt	Arsenic			
MW-36	Corrective Action	Appendix II	1,4-Dichlorobenzene; Barium; Chlorobenzene; Cobalt; Nickel	Arsenic			
Background Monitoring Locations							
MW-38	Background	Appendix II					
MW-101B	Background	Appendix II					
Delineation Monitoring Locations							
MW-102B	Delineation	Appendix I	Cobalt				
MW-104B	Delineation	Arsenic, TSS					
MW-105B	Delineation	Appendix I	1,1-Dichloroethane; Arsenic; Nickel	Cobalt			
MW-107B	Delineation	Appendix I	Barium; Cobalt; Nickel; Thallium				
MW-108B	Delineation	Appendix I without Cobalt [3]	Barium				
MW-109B	Delineation	Appendix I	1,4-Dichlorobenzene; Barium; Chlorobenzene; Nickel	Arsenic; Cobalt; Thallium			

[1] Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Aug. 2024.

[2] Analyte/well pairs with SSLs over the GWPS identified during previous statistical evaluations and have not achieved compliance with the GWPS for 3 consecutive years in accordance with 567 IAC 113.10(9)e(2).

7.2.1 Detection Monitoring

Annual detection monitoring for the Appendix I constituents was conducted at MW-31 in August 2024. No SSIs were identified at MW-31. The next annual detection monitoring for the Appendix I list will be conducted at MW-31 in Fall 2025.

7.2.2 Delineation Monitoring

In August 2024, semiannual delineation monitoring was conducted at MW-109B for the Appendix I constituents. In addition, annual delineation monitoring was conducted at MW-102B, MW-105B, and MW-107B for the Appendix I list, at MW-104B for arsenic, and at MW-108B for the Appendix I list without cobalt.

The SSIs identified for the assessment constituents in the deeper bedrock delineation monitoring locations are summarized in Table 14. No SSLs were identified for the assessment constituents in the deeper bedrock delineation monitoring locations.

Confidence intervals in corrective action mode were utilized to evaluate cobalt in MW-105B and arsenic, cobalt, and thallium in MW-109B (i.e., the corrective action constituents). SSLs continued to be identified for these analyte/well pairs; therefore, compliance with the GWPS has not been achieved. While compliance with the GWPS was not achieved, a statistically significant decreasing trend was identified for cobalt in MW-109B.

Semiannual delineation monitoring for the Appendix I constituents will be conducted at MW-109B in Spring and Fall 2025. In Fall 2025, annual delineation monitoring will be conducted at MW-102B, MW-105B, and MW-107B for the Appendix I list, at MW-104B for arsenic, and at MW-108B for the Appendix I list without cobalt.

7.2.3 Assessment Monitoring

In August 2024, annual assessment monitoring for Appendix I and detected Appendix II constituents was conducted at MW-11, MW-15, MW-18, MW-19, and MW-25.

The SSIs identified at the deeper bedrock assessment monitoring locations are summarized in Table 14. No SSLs were identified in the deeper bedrock assessment monitoring locations.

The Fall 2024 statistical evaluation did not identify deeper bedrock assessment monitoring locations with all Appendix II constituents below the interwell prediction limit or laboratory reporting limit for three consecutive sampling events. As a result, none of the deeper bedrock locations may exit assessment monitoring at this time.

In accordance with Permit Amendment #6, the next five-year resampling for the full Appendix II list will be conducted at the assessment monitoring locations in Fall 2025.

7.2.4 Corrective Action Monitoring

In August 2024, semiannual corrective action monitoring was conducted at MW-14 and MW-33, and annual corrective action monitoring was conducted at AW-6, CRL-9, MW-22, and MW-36 for the Appendix I and detected Appendix II constituents.

The SSIs identified for the assessment constituents in the deeper bedrock corrective action monitoring locations are summarized in Table 14. No SSLs were identified for the assessment constituents in the deeper bedrock corrective action monitoring locations.

For the deeper bedrock corrective action constituents listed in Table 3, SSLs continued to be identified for arsenic in CRL-9, MW-14, MW-22, MW-33, and MW-36; and for cobalt in AW-6, CRL-9, and MW-22.

Semiannual corrective action monitoring for the Appendix I and detected Appendix II constituents will be conducted at MW-14 and MW-33 in Spring 2025. In accordance with Permit Amendment #6, the next five-year resampling for the full Appendix II list will be conducted at the corrective action monitoring locations in Fall 2025.

7.2.5 Background Monitoring

Semiannual background monitoring for the Appendix I and detected Appendix II constituents was conducted at MW-38 and MW-101B in August 2024. Semiannual background monitoring for the Appendix I and detected Appendix II constituents will be continued at MW-38 and MW-101B in Spring 2025. In Fall 2025, background wells MW-37 and MW_101A will also be resampled for the full Appendix II list.

Attachment 1
Detailed Discussion of Statistical Methods

Foth

Memorandum

Statistical Methodology

1. Comparison to Background

For determining which parameters will need a formal statistical treatment, the Unified Guidance (USEPA, 2009) suggests splitting monitoring parameters into three distinct groups: a) reliable indicators selected for formal testing; b) other analytes which are monitored for general groundwater quality information but not statistically tested; and c) those meeting the "never-detected" criteria. Only those parameters with some historically detected presence in background need to be included in the first group and treated with a formal statistical test. Any parameter that has never been detected in background is eligible for the third group of "never-detected" constituents. Constituents with detections below the reporting limit (J-flagged data) will be considered "never-detected." As a means of evaluating the third group, the Unified Guidance suggests the Double Quantification Rule (DQR). The DQR is stated in the Unified Guidance as:

"A confirmed exceedance is registered if any well-constituent pair in the '100% non-detect' group exhibits quantified measurements [i.e., at or above the reporting limit (RL)] in two consecutive sample and resample events."

The Unified Guidance also recommends establishing background sample sizes as large as feasible. The guidance recognizes that small sample sizes in background can be "particularly" troublesome, especially in controlling statistical test false positive and negative rates. With parametric tests (such as parametric prediction limits), the false positive rate may be controlled, but at the expense of statistical power. With non-parametric tests (such as non-parametric prediction limits or the "quasi-statistical" DQR), the false positive rate may be unacceptably high. The Unified Guidance suggests that generally at least 8 to 10 separate background measurements be available, recognizing that statistical power continues to increase with larger sample sizes.

In reports prior to the *2011 Annual Water Quality Report* (Foth, 2012), the ANOVA and a "2x2 contingency table" methods were used to evaluate statistically significant increases (SSIs) over background. These methods met the criteria of 567 Iowa Administrative Code (IAC) 113.10(4)g and h. The ANOVA and "2x2 contingency table" methods were used to maximize the statistical power while minimizing potentially large false positive rates as a result of the smaller sample sizes.

Starting with the *2011 Annual Water Quality Report* (Foth, 2012), the statistical analysis methods utilized for comparison to background were the DQR and "1-of-3" interwell prediction limits as recommended in the Unified Guidance (USEPA, 2009). Note that a "1-of-2" retesting plan was not selected as it would have resulted in a 'low' effective statistical power level for the site based on USEPA reference power curves as defined in the Unified Guidance.

Starting with the Spring 2021 statistical evaluation, the interwell prediction limit retesting plan was modified to a "1-of-2" plan. With increases in the number of background samples, a "1-of-2" plan was able to achieve a 'good' effective statistical power level for the site based on the USEPA reference power curves.

Expansion of the Background Data Set

The background data set was modified in 2013 to add MW-101A and MW-101B to the upper bedrock and deeper bedrock background data sets, respectively. The statistical analysis methods continued the DQR and "1-of-2" interwell prediction limits as recommended in the Unified Guidance (USEPA, 2009), utilizing the pooled data from MW-37 and MW-101A for the upper bedrock system and MW-38 and MW-101B for the deeper bedrock system.

Double Quantification Rule

The DQR will be used to evaluate SSIs over background for the Appendix I and II constituents that were not detected above the reporting limit in the background data sets. An SSI will be indicated for any well-constituent pair with quantified measurements at or above the reporting limit noted for two consecutive sample and resample events. If applicable, the resample will be collected prior to next semiannual sampling event.

Interwell Prediction Limits

Interwell prediction limits will be used to statistically evaluate SSIs over background for the Appendix I and II constituents which have been detected above the reporting limit in the background data set. A "1-of-2" retesting plan will be utilized on individual sample results. The 1-of-2 retesting plan as defined in the Unified Guidance concludes that an SSI has occurred when two out of two sample results exceed the prediction limit, while no SSI is concluded if 1-of-2 are below the limit. If applicable, the resample will be collected prior to next semiannual sampling event. The prediction limit for each constituent will be recalculated semiannually.

For interwell constituents with less than or equal to 50% detects in the background data set, a non-parametric prediction limit will be utilized. The non-parametric prediction limit will be taken as the maximum order statistic (maximum value) of the background data.

For interwell constituents with greater than 50% detects in the background data set, normality assumptions will be verified using the Shapiro-Wilk normality test. If the background data is not normally distributed, a non-parametric prediction limit will be utilized (as described in the paragraph above). If the background data is normally distributed or can be fit to a normal distribution utilizing a normalizing transformation, then a normal-based parametric prediction limit will be applied.

When considering a lognormal prediction limit, a comparison will be made to the maximum order statistic for the background data set. Lognormal prediction limits can be sensitive to smaller departures from lognormality. That is, if data are not truly lognormal, but also not rejected as lognormal, the prediction limit may be inflated because of the transformation. In choosing a lognormal limit, in addition to the percent detections and lognormal goodness of fit criteria, an additional convention will be applied. If the lognormal limit exceeds the level of twice the maximum background concentration, it is assumed that the lognormal model does not adequately fit the background distribution and a non-parametric prediction limit will be selected.

For interwell constituents with 50% to 85% detects in the background data set, Kaplan-Meier estimation will be applied to manage statistical bias introduced by non-detects. For interwell constituents with over 85% detects in the background data set, half the reporting limit will be used for non-detect data. These estimation methods follow Unified Guidance recommendations and are given in detail in Unified Guidance Chapter 15 (USEPA, 2009).

The parametric prediction limit will be calculated as:

$$PL = \bar{x} + k \cdot s$$

where $\bar{x}$ is the sample mean of the August 2008 through current event background data, *s* is the sample standard deviation, and *k* is the multiplier obtained from the Unified Guidance Table 19-1 (USEPA, 2009) for 1-of-2 interwell prediction limits on observations. In determining *k*, the number of constituents of concern (COCs) for formal statistical evaluation along with the number of downgradient wells need to be identified. Per the basic subdivision discussion presented in Section 19.2.1 of the Unified Guidance, along with the discussion regarding the use of the appendix tables for parametric retesting plans given on pages 19-13 through 19-15 of the Unified Guidance (USEPA, 2009), the *k*-multiplier is chosen based on the number of constituents, wells, and evaluations performed annually. When an exact well and COC configuration is not given in the appendix tables, the *k*-multiplier is linearly interpolated as described on page 19-14 of the Unified Guidance (USEPA, 2009).

Sanitas® v10.0. software (Sanitas Technologies) will be used to check distributional assumptions, perform Kaplan-Meier in the case of 50% to 85% detects in the background data set, and calculate the *k*-multipliers and subsequent prediction limits.

Intrawell Prediction Limits

Intrawell prediction limits are calculated in a similar manner to that described above for the interwell case. A main difference between the two methods is the intrawell limit is calculated from a collection of background measurements within the compliance well. A minimum of eight compliance well background samples will be used when calculating the limit.

A second difference is for the parametric prediction limit, in which the *k*-multiplier is modified from the interwell case, as given in Appendix D Tables 19-10 through 19-18 of the Unified Guidance (USEPA, 2009).

Updating intrawell background is performed periodically. The Unified Guidance (Section 5.3.2) recommends that 4 to 8 new compliance observations be collected prior to updating the background dataset. The guidance also states that "a potential update is predicated on there being no statistically significant increase [SSI] recorded for that well constituent, including since the last update." A two-sample t-test or Wilcoxon rank-sum test between existing intrawell background data and the potential set of newer background data is performed, and a non-significant result (α = 0.05) implies that the newer compliance data can be re-classified as background measurements.

For Wilcoxon rank-sum tests, non-detect results cannot be ranked with certainty and the problem is compounded with multiple PQLs and/or J-flagged values (USEPA, 2009). In comparisons where a substantial fraction of non-detect and/or J-flagged measurements or changing PQLs occur, professional judgment will be utilized for evaluating significant differences between the existing intrawell background data and the potential newer set of background data. Consideration will be given to whether significant differences are due to artificial variation introduced by censored data.

2. Comparison to Groundwater Protection Standard – Assessment Monitoring

According to 567 IAC 113.10(6)f and g, under the assessment monitoring program Appendix II results which have been determined to be statistically above background are also statistically compared to the GWPS. If "Appendix II constituents are detected at statistically significant levels above the GWPS" a notice is placed in the operating record and characterization is begun.

Under 567 IAC 113.10(6)h, the GWPS is the maximum contaminant level (MCL) promulgated under Section 1412 of the Safe Drinking Water Act in 40 Code of Federal Regulations (CFR) Part 141. If no MCL exists, or if background concentrations are higher than the MCL, the GWPS is defined as background. Also, per 567 IAC 113.10(6)i, an alternative GWPS may be established by the department for constituents for which there is no MCL such as the "health-based concentrations that comply with the statewide standards for groundwater established pursuant to 567 IAC Chapter 137."

When the GWPS is background concentrations, the statistical methods discussed in the above "1. Comparison to Background" are used. When the GWPS is the MCL or an alternative health-based concentration, per the Unified Guidance (USEPA, 2009), "confidence intervals are the recommended general statistical strategy in compliance/assessment or corrective action monitoring." In the case of normally distributed data, a normal-based parametric confidence interval is used. If the data are not normally distributed a non-parametric confidence interval on the median is used. A lower 99% confidence limit falling above the GWPS implies that concentrations are detected at statistically significant levels above the GWPS with an α-level of 0.01, which is the minimum RCRA regulatory limit from §264.97(i)(2) for an individual test false positive error rate.

The Unified Guidance recognizes that statistical power is also of prime concern to USEPA and that there "should be a high probability that the statistical test will positively identify concentrations that have exceeded a fixed regulatory standard." In compliance/assessment monitoring, instead of pre-specifying the false positive rate prior to computing confidence interval limits, the Unified Guidance suggests the desired level of power (1-β) should be set as an initial target.

For compliance/assessment monitoring purposes, the Unified Guidance (Chapter 22) suggests evaluating increases in the true concentration mean of 1.5 and 2.0 times a fixed standard. (This is similar in concept to the critical power targets in detection monitoring, i.e., 55-60% power at 3σ above background and 80-85% power at 4σ over background). As a general guide, the Unified Guidance suggests there should be at least 70-80% statistical power for detecting increases of 2 times a fixed standard. Specifically, the Unified Guidance recommends there be 50% power of detecting increases in the true concentration mean of 1.5 times a fixed standard (risk ratio of 1.5) and 80% power of detecting increases in the true concentration mean of 2.0 times a fixed standard (risk ratio of 2.0).

To meet these levels of statistical power, α is chosen based on either Unified Guidance Equation 22.1:

$$1 - \beta = G_{T,n-1}\left(t_{1-\alpha,n-1}\middle|\Delta - \sqrt{n}(R-1)\right);$$

where R is the desired risk ratio, $t_{(1-\alpha,n-1)}$ is the (1−α) Student's t-quantile with (n−1) degrees of freedom and G represents the cumulative non-central t-distribution with (n−1) degrees of freedom and noncentrality parameter Δ;

or Unified Guidance Equation 22.2:

$$\alpha \sim 1 - F_{T,n-1}\left(\frac{(R-1)\sqrt{n}}{R \cdot \widehat{CV}} - t_{1-\beta,n-1}\right);$$

where R is the desired risk ratio, n is the sample size, CV is the estimated sample coefficient of variation, $t_{(1-\beta,n-1)}$ is the (1−β) Student's t-quantile with (n−1) degrees of freedom, and F is the cumulative (central) Student's t-distribution function.

The first equation (Unified Guidance Equation 22.1) assumes a coefficient of variation (CV) =1. This version is used if only poorer estimates of the true CV are available. In practice, a convention has been adopted with the statistical updates to utilize Unified Guidance Equation 22.2 in all cases where a parametric confidence interval is calculated and use Unified Guidance Equation 22.1 when non-parametric confidence intervals are calculated. Since a non-parametric confidence interval is based on the median, it is not as sensitive to departures from normality, and the assumption of a CV=1 in Unified Guidance Equation 22.1 should provide a conservative estimate.

Since 0.01 is the minimum RCRA regulatory limit for α, it is never set lower than this. Conversely, the Unified Guidance recognizes the "difficulty of simultaneously attaining the recommended level of power while controlling the false positive rate, especially for small sample sizes and highly variable data." The Unified Guidance suggests a maximum false positive rate of α=0.2 is a reasonable upper bound.

Finally, like the need for defining a SWFPR under detection monitoring, the Unified Guidance (Chapter 7) recognizes there may be concern about the "use of relatively high individual test-wise false positive rates (α) in order to meet a pre-specified power, especially when considering the cumulative false positive error rate across multiple wells and/or constituents." However, "the Unified Guidance considers computation of cumulative SWFPRs in compliance/assessment testing to be problematic, and reliance on individual test false positive rates preferable." Notwithstanding, if several confidence limit calculations are compared to the GWPS with high α-levels, caution should be taken in the interpretation.

For calculation of confidence intervals, Sanitas® v10.0 software is again used to check distributional assumptions, perform Kaplan-Meier estimation in the case of 50% to 85% detects, and calculate either parametric or nonparametric confidence limits.

3. Comparison to Groundwater Protection Standard – Corrective Action Monitoring

As stated above, if "Appendix II constituents are detected at statistically significant levels above the GWPS" a notice is placed in the operating record and characterization is begun. Owners or operators are required to initiate an assessment of corrective measures, select a remedy, and implement a remedy in accordance with 567 IAC 113.10(7), (8), and (9). For remedy completion in accordance with 567 IAC 113.10(9)e(2), compliance with the GWPS is considered achieved by demonstrating that concentrations of Appendix II constituents have not exceeded the GWPS

for a period of three consecutive years or an alternate length of time established by the Department.

Starting with the Fall 2019 statistical evaluation, individual analyte/well pairs may return to assessment constituents (at the corrective action monitoring location) once compliance with the GWPS has been achieved for a period of 3 years. Note that monitoring wells will not move out of the corrective action monitoring program until all Appendix II constituents have achieved compliance with the GWPS for a period of three consecutive years.

Confidence Intervals in Corrective Action Mode

In the case of the GWPS being a fixed standard as either the 40 CFR Part 141 Safe Drinking Water Act MCL or the 567 IAC Chapter 137 Statewide Standard for a Protected Groundwater Source, "confidence intervals are the recommended general statistical strategy in compliance/assessment or corrective action monitoring" (USEPA, 2009). However, a primary difference between confidence intervals as used under assessment monitoring and confidence intervals used under corrective action is reversal of the null hypothesis. As detailed in Section 7.2 of the Unified Guidance (USEPA, 2009), the hypothesis testing structure under assessment monitoring is to presume compliance point concentrations do not to exceed the fixed standard unless sampling data indicates otherwise. As a formal statistical hypothesis, this is written as:

$$H_0: \Theta \leq G \quad \text{vs.} \quad H_A: \Theta > G$$

In corrective action mode, the hypothesis is reversed. Namely, compliance point concentrations are presumed to exceed the fixed standard and evidence must be presented to demonstrate regulatory compliance. In the case of corrective action, the statistical hypothesis is written as:

$$H_0: \Theta > G \quad \text{vs.} \quad H_A: \Theta \leq G$$

For testing under assessment monitoring, a lower confidence limit (LCL) is compared to the compliance standard *G*. If the LCL is larger than the standard *G*, it is concluded that the compliance standard has been violated.

However, under corrective action monitoring, the upper confidence limit (UCL) is compared to the compliance standard G. In this case, the UCL should lie below the standard to accept the alternative hypothesis that concentration levels are in compliance.

The UCL α-level under corrective action monitoring is set so that a high degree of confidence is achieved in declaring successful remediation. Per the Unified Guidance (Section 7.4.2) "USEPA's overriding concern in corrective action is that remediation efforts are not declared successful without sufficient statistical proof." The Unified Guidance "recommends the use of a reasonably low, fixed test-wide false positive rate (e.g., α = 0.05 or 0.10)." In this case, α = 0.10 corresponds to a 90% UCL.

GWPS as Background

Pursuant to 567 IAC 113.10(6)h, when background concentrations of an analyte exceed the applicable MCL or 567 IAC Statewide Standard for a Protected Groundwater Source, the GWPS is the background concentration. In this case, the GWPS is not a fixed standard but based on a distribution of background sample results.

Section 7.5 of the Unified Guidance (USEPA, 2009) details statistical hypothesis testing under corrective action when the GWPS is background. The Unified Guidance offers two alternative statistical approaches to hypothesis testing in this case. These alternatives are as follows:

A. The first represents a *two-sample* test of two distinct populations, namely the compliance well to background populations. Similar to the statistical tests used under detection and assessment monitoring, with this alternative under corrective action, the Unified Guidance states that "one highly recommended statistical test approach is a prediction limit." The Unified Guidance also states, "whatever the critical value for a selected background test, it becomes the GWPS under compliance/assessment or corrective action monitoring." Further, "the only allowable hypothesis test structure for the two-sample approach follows that of detection and compliance monitoring. Once exceeded and in corrective action, a return to compliance is through evidence that future samples lie below the GWPS using the same hypothesis structure." Therefore, with this approach in corrective action, prediction limits are calculated similarly as in assessment monitoring. Compliance well concentrations below a prediction limit indicate a return to concentrations below the background GWPS.

B. The second involves computation of a fixed statistic from the background data as the GWPS. The Unified Guidance recommendation in this case is to define a fixed GWPS based on a background upper tolerance limit with 95% confidence and 95% coverage. This is designed to be a "reasonable maximum on the likely range of background concentrations." This upper tolerance limit based on background data is then used as a fixed standard in statistical comparisons with 90% or 95% UCLs from compliance wells as discussed previously. Also, with the UCL method, the null hypothesis is reversed from that of assessment monitoring, assuming contamination is above the GWPS. A UCL falling below the background GWPS offers evidence of a return to concentrations below the GWPS. The Unified Guidance refers to this approach as a *single-sample* testing method, since the compliance well population is tested against a defined fixed standard.

The Unified Guidance discusses tradeoffs between the two approaches and does not necessarily prescribe either approach over the other. The Unified Guidance suggests that both approaches may be used, where "the background GWPS would be a range based on the two testing methods rather than a single value."

Normality

For calculation of confidence intervals, Sanitas® v10.0 software is again used to check distributional assumptions, perform Kaplan-Meier estimation in the case of 50% to 85% detects, and calculate either parametric or nonparametric confidence limits. "Corrective Action Mode" is selected for this analysis.

Non-Corrective Action Constituents

As recommended in the Unified Guidance (USEPA, 2009), confidence intervals in corrective action mode will be utilized to evaluate only constituents and monitoring locations with previously identified SSLs over the GWPS. Other compliance constituents (i.e., those without SSLs over the GWPS during prior statistical evaluations) will continue to be evaluated using the "1. Comparison to Background" and "2. Comparison to Groundwater Protection Standard – Assessment Monitoring" methods described above.

Note: The Unified Guidance (USEPA, 2009) states: "it should be recognized that once corrective action or remediation activities are initiated, there will be a considerable time during which the GWPS may still be exceeded. As provided in the RCRA regulations, it is at the conclusion of remediation activities that formal corrective action monitoring evaluation is appropriate. However, in the intervening period of remedial activity, well constituents can still be monitored, and the relative efficacy of remediation measures tracked. The same corrective action hypothesis can be assumed for the targeted constituents; techniques such as trend testing may be appropriate interim applications." Given the statement above and the intentions of 567 IAC 113.10(6)g, as soon as an SSL is identified for an assessment monitoring constituent/location, then the next statistical evaluation will utilize corrective action monitoring (confidence intervals in corrective action mode).

Data Concentration Shifts During Corrective Action

Confidence intervals assume that the population is stable over time. As a result, confidence intervals may not accurately represent the current well concentrations if increasing or decreasing trends are observed (i.e., during a release or under active remediation). Per the Unified Guidance (USEPA, 2009), lower or upper confidence limits constructed on accumulated data may be overly wide (due to high sample variability caused by combining pre- and post-shift data) and may not be reflective of more recent upward/downward shifts in the contaminant distribution.

Alternative procedures may be applied to data sets with shifting distributions. For example, where trends tests are significant, pre-shift data may be removed from the well/parameter data set for the purposes of constructing the confidence interval. "The reduction in sample size will often be more than offset by the gain in statistical power. More recent measurements may exhibit less variation around the shifted mean value, resulting in a shorter confidence interval" (USEPA, 2009).

Another alternative is to construct confidence bands around the trend line to track progress towards exceeding or meeting a fixed standard. As suggested in the Unified Guidance (Chapter 22), if a trend is present, a 90% confidence band (upper 95% confidence limit) is placed on the linear trend line. If the upper 95% confidence limit on the trend line falls below the GWPS, the well is found to have reduced to levels statistically below the GWPS.

As the discussed in the Unified Guidance, "inferences concerning a linear regression are generally appropriate when two conditions hold: 1) the residuals from the regression are approximately normal or at least reasonably symmetric in distribution; and 2) a plot of residuals versus concentrations indicates a scatter cloud of essentially uniform vertical thickness or width." These conditions are assessed through normal probability plots of the regression residuals and plots of residuals against the predicted concentrations.

Data Adjustments Due to Exiting Corrective Action

When analyte/well pairs exit corrective action and return to assessment constituents, the hypothesis testing structure is reversed again. In corrective action mode, compliance point concentrations were presumed to exceed the GWPS, and evidence must be presented to demonstrated regulatory compliance (i.e., UCLs below the GWPS for three consecutive years). With the return to assessment constituents, analyte/well pairs have demonstrated regulatory compliance. The hypothesis testing structure reverts to the assessment monitoring structure where compliance point concentrations are presumed to not exceed the GWPS unless sampling

data indicates otherwise (i.e., LCL is above the GWPS). With this reversion in hypothesis, the focus shifts to evaluating concentration changes in the analyte/well pair that would indicate an increase over the GWPS and re-trigger corrective action. For constituents with historical SSLs, earlier concentrations that had previously triggered corrective action are no longer providing useful information regarding the current assessment monitoring hypothesis. Retaining the historical data during the timeframe in which the GWPS was exceeded will result in the regression or confidence interval methods being slower to respond to new increases. As a result, the historical data prior to when statistical compliance with the GWPS was first achieved will be removed when analyte/well pairs exit corrective action and return to assessment constituents.

Attachment 2
Sanitas Report Output for Prediction Limit Calculations

Upper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Delineation Monitoring Locations - Assessment Constituents													
Antimony (mg/L)	MW-105A	0.00739	8/19/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-106A	0.00739	8/19/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-107A	0.00739	8/15/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-109A	0.00739	8/15/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-105A	0.00205	8/19/2024	0.00143J	No	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-107A	0.00205	8/15/2024	0.001ND	No	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-109A	0.00205	8/15/2024	0.000615J	No	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Barium (mg/L)	MW-105A	0.1285	8/19/2024	0.078	No	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-106A	0.1285	8/19/2024	0.23	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-107A	0.1285	8/15/2024	0.199	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-109A	0.1285	8/15/2024	0.191	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-107A	0.008	8/15/2024	0.000569	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-109A	0.008	8/15/2024	0.000307J	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Copper (mg/L)	MW-105A	0.0225	8/19/2024	0.00731	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-106A	0.0225	8/19/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-107A	0.0225	8/15/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-109A	0.0225	8/15/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-105A	0.00695	8/19/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-106A	0.00695	8/19/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-107A	0.00695	8/15/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-109A	0.00695	8/15/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-105A	0.0522	8/19/2024	0.0117	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-106A	0.0522	8/19/2024	0.0555	Yes	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-107A	0.0522	8/15/2024	0.0103	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-109A	0.0522	8/15/2024	0.0025ND	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-105A	0.0805	8/19/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-106A	0.0805	8/19/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-107A	0.0805	8/15/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-109A	0.0805	8/15/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Assessment Monitoring Locations													
Antimony (mg/L)	AW-3	0.00739	8/13/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	AW-4	0.00739	8/13/2024	0.00282	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	AW-5	0.00739	8/19/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-21	0.00739	8/21/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-23	0.00739	8/13/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-26	0.00739	8/19/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-28	0.00739	8/19/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	VP-3	0.00739	8/12/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	VP-4	0.00739	8/13/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	AW-3	0.00205	8/13/2024	0.00251	Yes	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	AW-4	0.00205	8/13/2024	0.00408	Yes	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	AW-5	0.00205	8/19/2024	0.0016J	No	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-21	0.00205	8/21/2024	0.00116J	No	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-23	0.00205	8/13/2024	0.001ND	No	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-26	0.00205	8/19/2024	0.000928J	No	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-28	0.00205	8/19/2024	0.001ND	No	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	VP-3	0.00205	8/12/2024	0.0077	Yes	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2

Upper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Assessment Monitoring Locations Continued													
Arsenic (mg/L)	VP-4	0.00205	8/13/2024	0.00344	Yes	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Barium (mg/L)	AW-3	0.1285	8/13/2024	0.0705	No	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	AW-4	0.1285	8/13/2024	0.09	No	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	AW-5	0.1285	8/19/2024	0.193	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-21	0.1285	8/21/2024	0.146	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-23	0.1285	8/13/2024	0.119	No	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-26	0.1285	8/19/2024	0.159	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-28	0.1285	8/19/2024	0.206	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	VP-3	0.1285	8/12/2024	0.774	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	VP-4	0.1285	8/13/2024	0.067	No	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	AW-3	0.008	8/13/2024	0.00025ND	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	AW-4	0.008	8/13/2024	0.0037	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	AW-5	0.008	8/19/2024	0.00294	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-21	0.008	8/21/2024	0.00137	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-23	0.008	8/13/2024	0.000883	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-26	0.008	8/19/2024	0.00025ND	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-28	0.008	8/19/2024	0.00025ND	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	VP-3	0.008	8/12/2024	0.00025ND	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	VP-4	0.008	8/13/2024	0.00025ND	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Copper (mg/L)	AW-3	0.0225	8/13/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	AW-4	0.0225	8/13/2024	0.0917	Yes	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	AW-5	0.0225	8/19/2024	0.00503	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-21	0.0225	8/21/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-23	0.0225	8/13/2024	0.00228J	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-26	0.0225	8/19/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-28	0.0225	8/19/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	VP-3	0.0225	8/12/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	VP-4	0.0225	8/13/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Lead (mg/L)	AW-3	0.00695	8/13/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	AW-4	0.00695	8/13/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	AW-5	0.00695	8/19/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-21	0.00695	8/21/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-23	0.00695	8/13/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-26	0.00695	8/19/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-28	0.00695	8/19/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	VP-3	0.00695	8/12/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	VP-4	0.00695	8/13/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Nickel (mg/L)	AW-3	0.0522	8/13/2024	0.0025ND	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	AW-4	0.0522	8/13/2024	0.0894	Yes	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	AW-5	0.0522	8/19/2024	0.0107	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-21	0.0522	8/21/2024	0.0275	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-23	0.0522	8/13/2024	0.0128	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-26	0.0522	8/19/2024	0.0025ND	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-28	0.0522	8/19/2024	0.0025ND	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	VP-3	0.0522	8/12/2024	0.0025ND	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	VP-4	0.0522	8/13/2024	0.0025ND	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Tin (mg/L)	AW-3	0.152	8/13/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2

Upper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Assessment Monitoring Locations Continued													
Tin (mg/L)	MW-21	0.152	8/21/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-23	0.152	8/13/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-26	0.152	8/19/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	AW-3	0.0805	8/13/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	AW-4	0.0805	8/13/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	AW-5	0.0805	8/19/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-21	0.0805	8/21/2024	0.0512	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-23	0.0805	8/13/2024	0.0668	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-26	0.0805	8/19/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-28	0.0805	8/19/2024	0.0121J	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	VP-3	0.0805	8/12/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	VP-4	0.0805	8/13/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Corrective Action Monitoring Locations - Assessment Constituents													
Antimony (mg/L)	AW-1	0.00739	8/13/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	AW-2	0.00739	8/12/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-12	0.00739	8/20/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-13	0.00739	8/15/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-16	0.00739	8/14/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-17	0.00739	8/13/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-20	0.00739	8/15/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-24	0.00739	8/15/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-30	0.00739	8/19/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-32	0.00739	8/20/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-34	0.00739	8/20/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-35	0.00739	8/21/2024	0.001ND	No	52	n/a	n/a	83	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-20	0.00205	8/15/2024	0.0218	Yes	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-35	0.00205	8/21/2024	0.00291	Yes	53	n/a	n/a	81	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Barium (mg/L)	AW-1	0.1285	8/13/2024	0.178	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	AW-2	0.1285	8/12/2024	0.468	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-12	0.1285	8/20/2024	0.514	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-13	0.1285	8/15/2024	0.956	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-16	0.1285	8/14/2024	0.148	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-17	0.1285	8/13/2024	0.145	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-20	0.1285	8/15/2024	0.161	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-24	0.1285	8/15/2024	0.899	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-30	0.1285	8/19/2024	0.135	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-32	0.1285	8/20/2024	0.886	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-34	0.1285	8/20/2024	0.336	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Barium (mg/L)	MW-35	0.1285	8/21/2024	0.149	Yes	49	-3.06	0.4357	0	None	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	AW-1	0.008	8/13/2024	0.00136	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	AW-2	0.008	8/12/2024	0.00169	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-12	0.008	8/20/2024	0.00445	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-13	0.008	8/15/2024	0.00148	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-16	0.008	8/14/2024	0.000804	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-17	0.008	8/13/2024	0.0052	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-20	0.008	8/15/2024	0.00209	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-24	0.008	8/15/2024	0.000266J	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2

Upper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Corrective Action Monitoring Locations - Assessment Constituents Continued													
Cobalt (mg/L)	MW-30	0.008	8/19/2024	0.00179	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-32	0.008	8/20/2024	0.00845	Yes	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-34	0.008	8/20/2024	0.0034	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Copper (mg/L)	AW-1	0.0225	8/13/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	AW-2	0.0225	8/12/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-12	0.0225	8/20/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-13	0.0225	8/15/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-16	0.0225	8/14/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-17	0.0225	8/13/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-20	0.0225	8/15/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-24	0.0225	8/15/2024	0.0212	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-30	0.0225	8/19/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-32	0.0225	8/20/2024	0.00222J	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-34	0.0225	8/20/2024	0.0028J	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-35	0.0225	8/21/2024	0.0025ND	No	52	n/a	n/a	94	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Lead (mg/L)	AW-1	0.00695	8/13/2024	0.000817	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	AW-2	0.00695	8/12/2024	0.00109	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-12	0.00695	8/20/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-13	0.00695	8/15/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-16	0.00695	8/14/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-17	0.00695	8/13/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-20	0.00695	8/15/2024	0.000339J	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-24	0.00695	8/15/2024	0.000885	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-30	0.00695	8/19/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-32	0.00695	8/20/2024	0.00051	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-34	0.00695	8/20/2024	0.00035J	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-35	0.00695	8/21/2024	0.00025ND	No	51	n/a	n/a	78	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Nickel (mg/L)	AW-1	0.0522	8/13/2024	0.0246	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	AW-2	0.0522	8/12/2024	0.0132	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-12	0.0522	8/20/2024	0.0822	Yes	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-13	0.0522	8/15/2024	0.0118	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-16	0.0522	8/14/2024	0.0293	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-17	0.0522	8/13/2024	0.00784	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-20	0.0522	8/15/2024	0.0193	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-24	0.0522	8/15/2024	0.00758	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-30	0.0522	8/19/2024	0.0257	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-32	0.0522	8/20/2024	0.0766	Yes	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-34	0.0522	8/20/2024	0.0471	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-35	0.0522	8/21/2024	0.0278	No	52	n/a	n/a	58	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-12	0.152	8/20/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-20	0.152	8/15/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-24	0.152	8/15/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-30	0.152	8/19/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-32	0.152	8/20/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-34	0.152	8/20/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-35	0.152	8/21/2024	0.0025ND	No	54	n/a	n/a	96	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	AW-1	0.0805	8/13/2024	0.0231	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2

Upper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Corrective Action Monitoring Locations - Assessment Constituents Continued													
Zinc (mg/L)	AW-2	0.0805	8/12/2024	0.0136J	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-12	0.0805	8/20/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-13	0.0805	8/15/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-16	0.0805	8/14/2024	0.0506	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-17	0.0805	8/13/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-20	0.0805	8/15/2024	0.0334	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-24	0.0805	8/15/2024	0.0219	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-30	0.0805	8/19/2024	0.158	Yes	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-32	0.0805	8/20/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-34	0.0805	8/20/2024	0.01ND	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-35	0.0805	8/21/2024	0.0264	No	54	n/a	n/a	87	n/a	n/a	0.0006272	NP Inter (NDs) 1 of 2

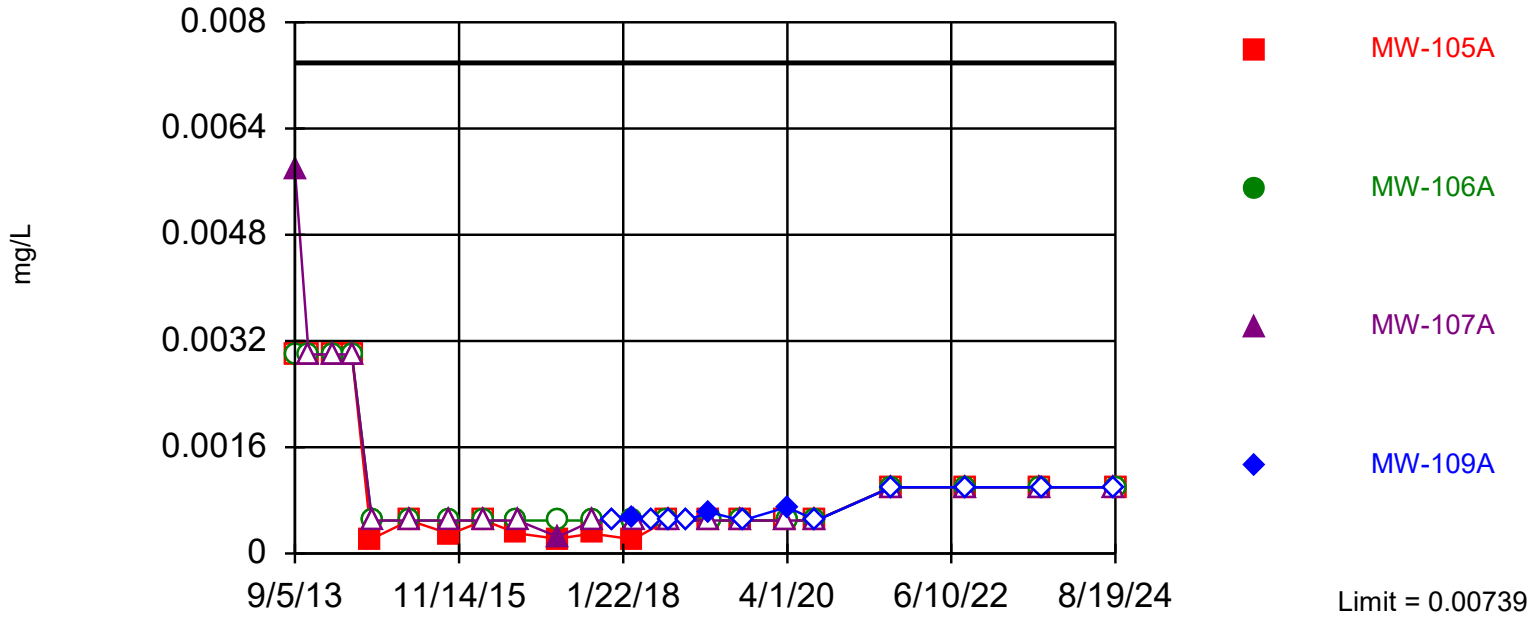
[1] Interwell prediction limit data consists of the detected Appendix I and II parameters in the combined MW-37 and MW-101A data set. Note that background data set adjustments were incorporated in accordance with Section 3.1 of the Fall 2024 Statistical Evaluation memo.

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 82.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Antimony Analysis Run 10/16/2024 4:58 PM

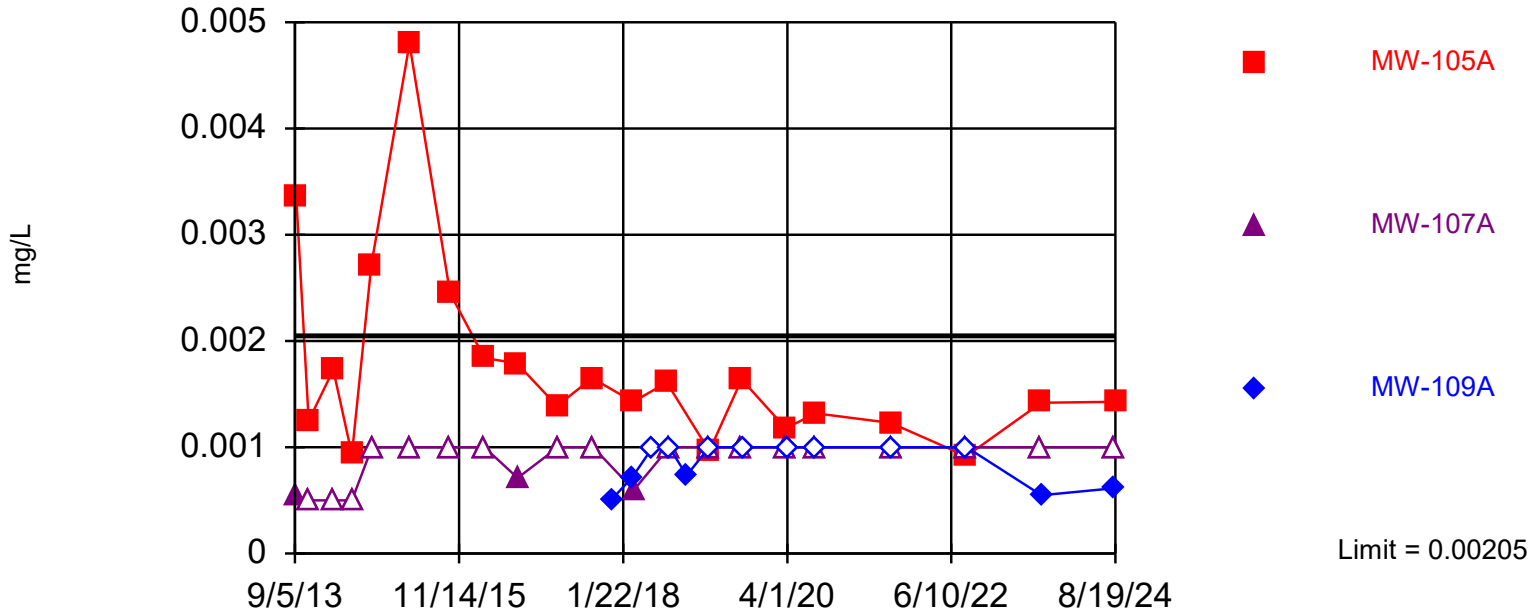
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 81.13% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

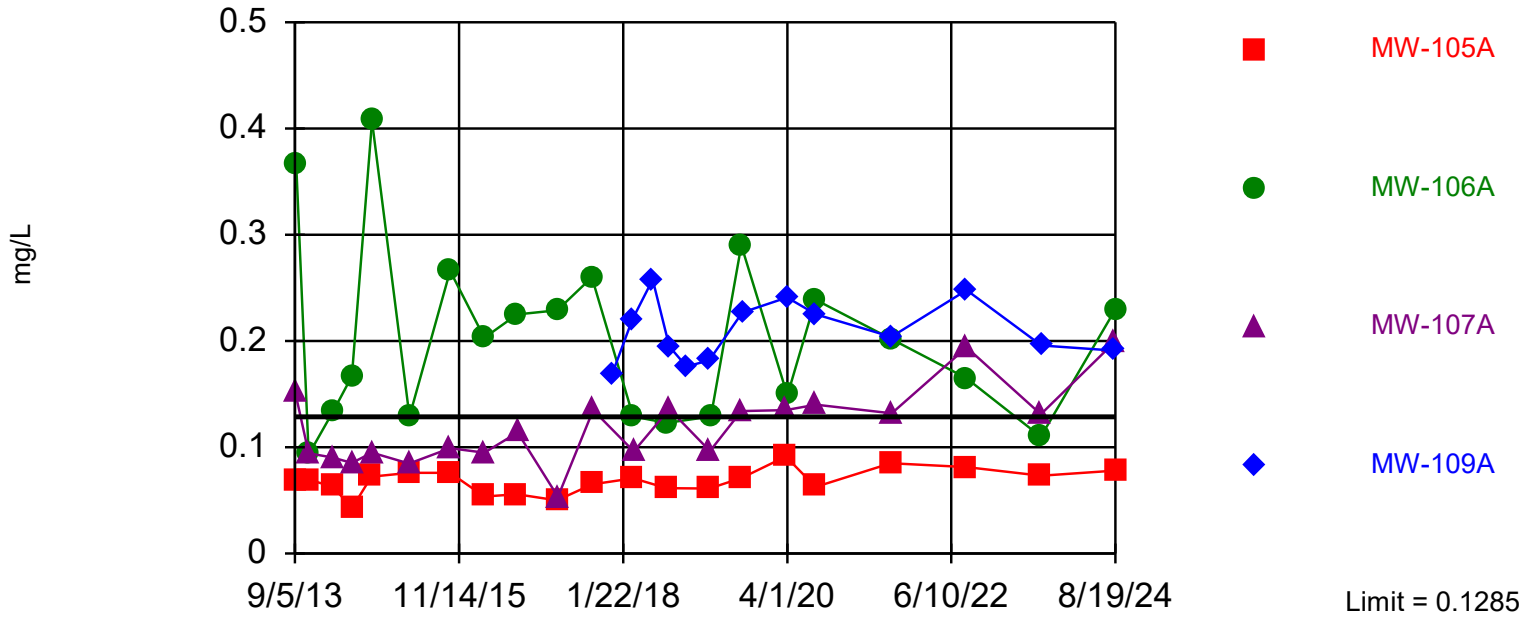
Constituent: Arsenic Analysis Run 10/16/2024 4:58 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Exceeds Limit: MW-106A, MW-107A, MW-109A

Prediction Limit - Delineation Monitoring - Assessment Constituents

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.06, Std. Dev.=0.4357, n=49. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9351, critical = 0.929. Kappa = 2.314 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Barium Analysis Run 10/16/2024 4:58 PM

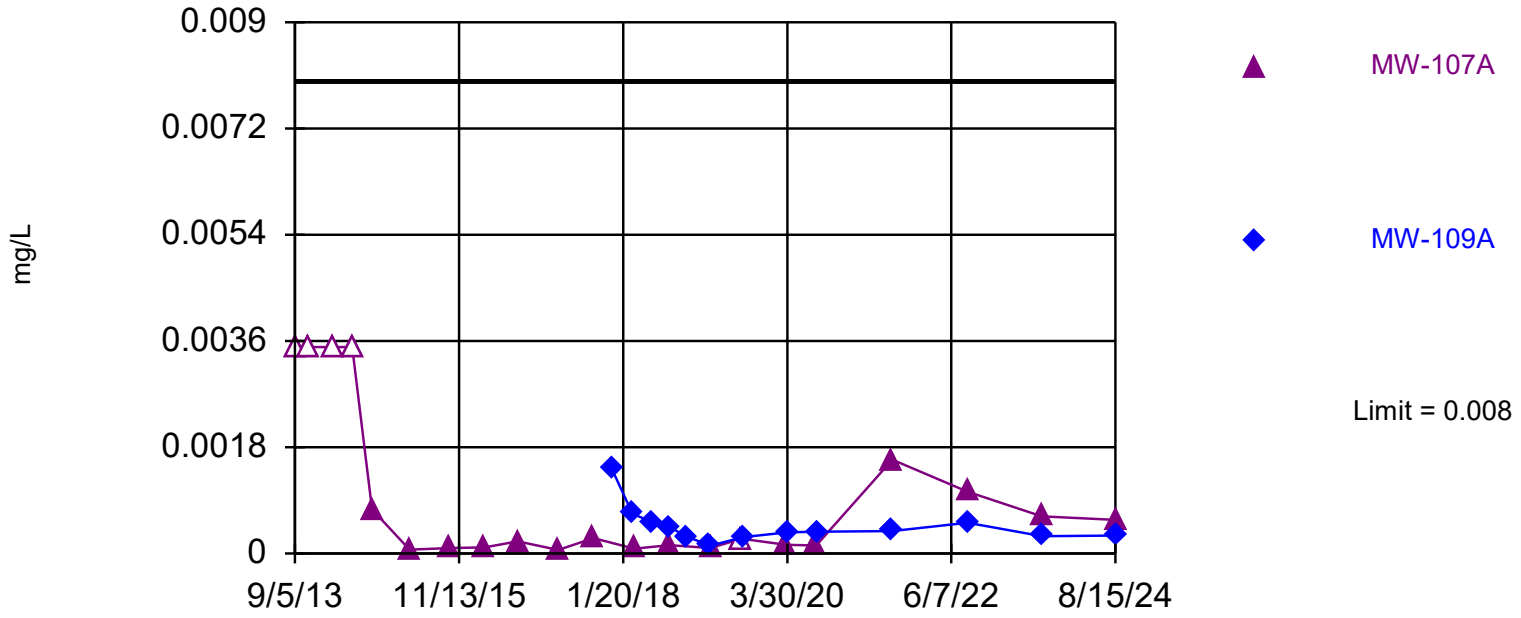
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring

Interwell Non-parametric - Assessment Constituents



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

Constituent: Cobalt Analysis Run 10/16/2024 4:59 PM

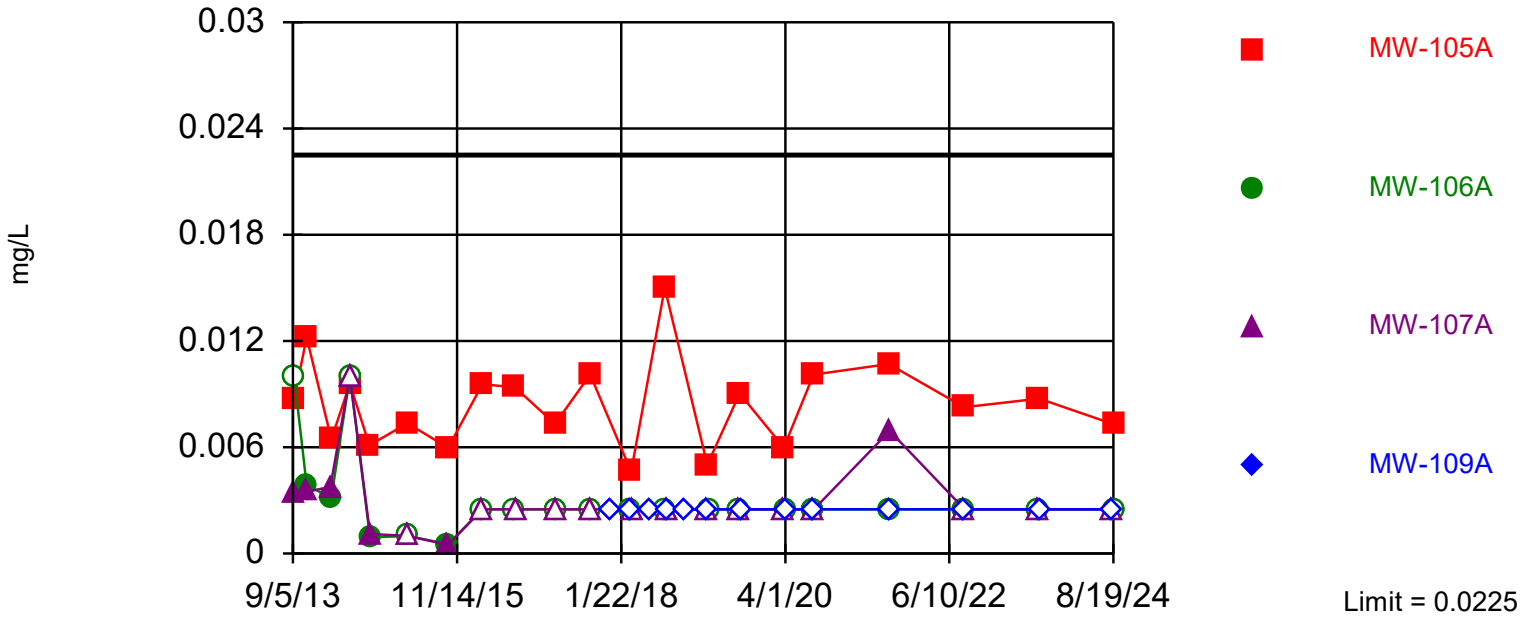
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring

Interwell Non-parametric - Assessment Constituents



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 94.23% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

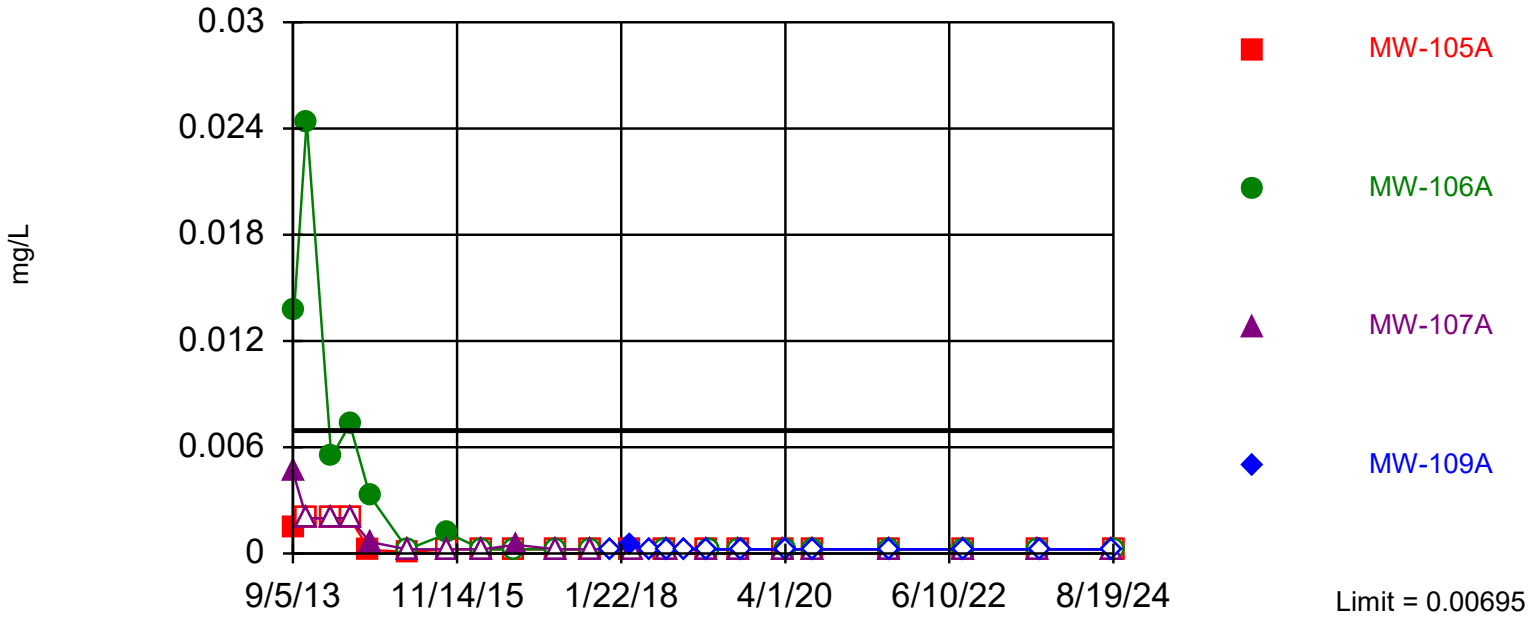
Constituent: Copper Analysis Run 10/16/2024 4:59 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring
Interwell Non-parametric - Assessment Constituents



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 78.43% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Lead Analysis Run 10/16/2024 4:59 PM

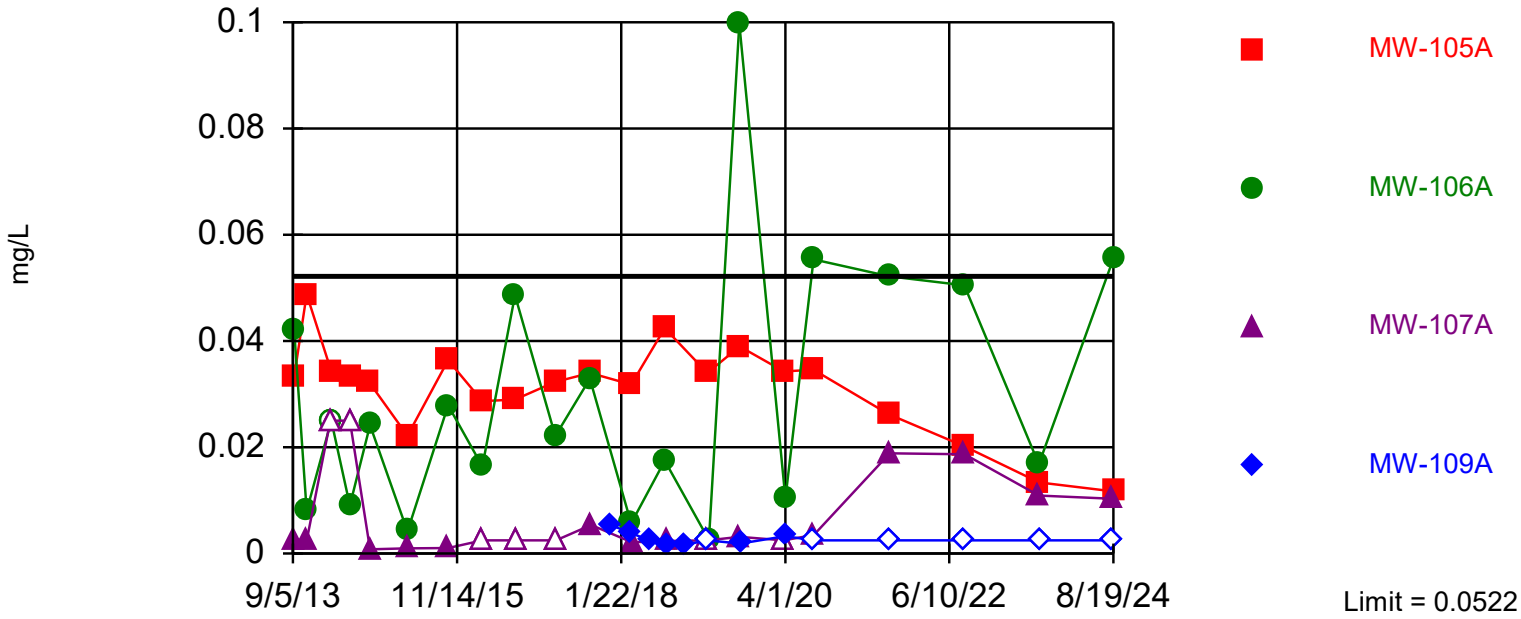
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-106A

Prediction Limit - Delineation Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 57.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Nickel Analysis Run 10/16/2024 4:59 PM

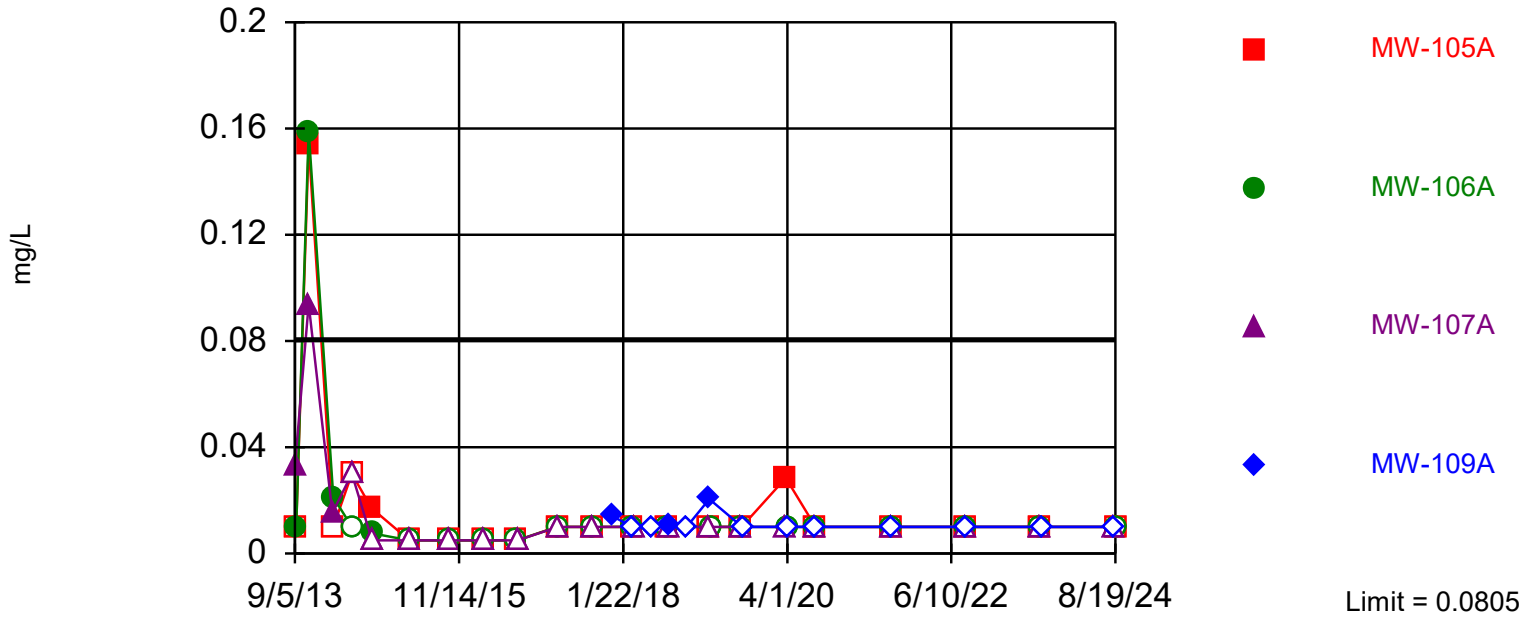
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 54 background values. 87.04% NDs. Annual per-constituent alpha = 0.02478. Individual comparison alpha = 0.0006272 (1 of 2).

Constituent: Zinc Analysis Run 10/16/2024 4:59 PM

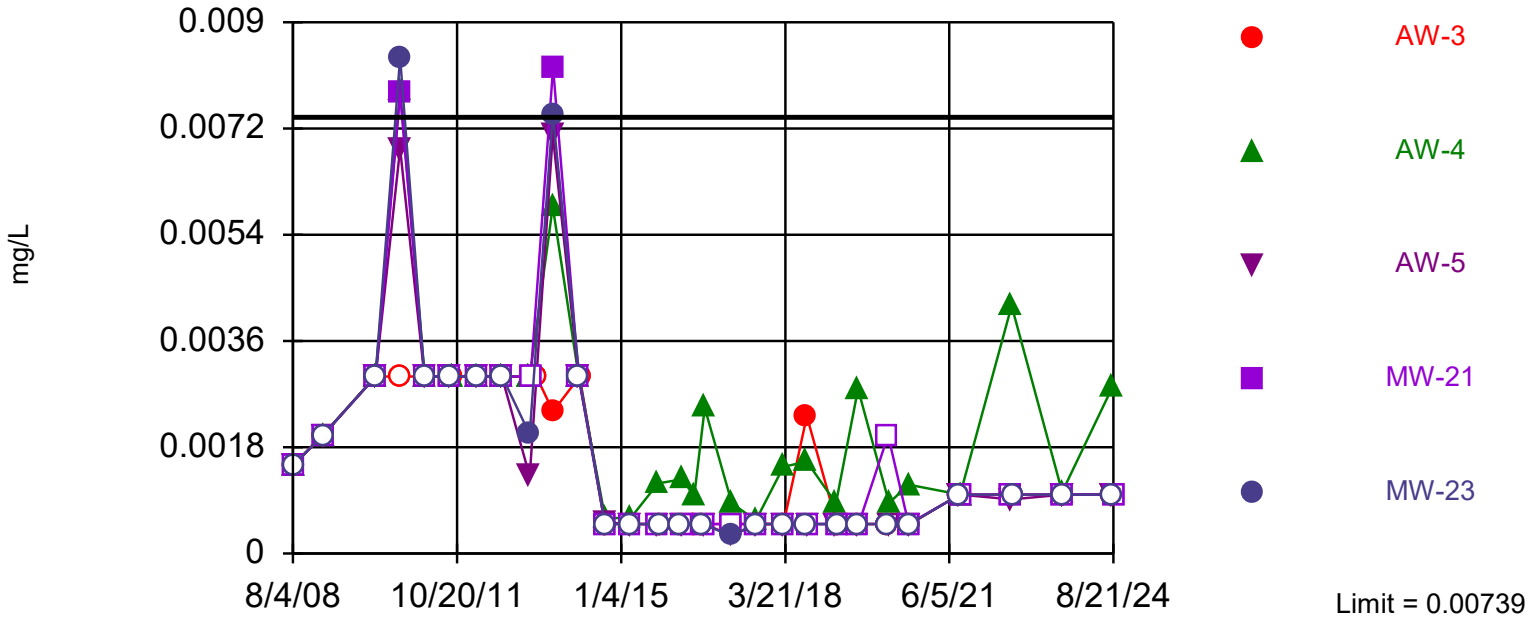
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 82.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Antimony Analysis Run 10/16/2024 5:30 PM

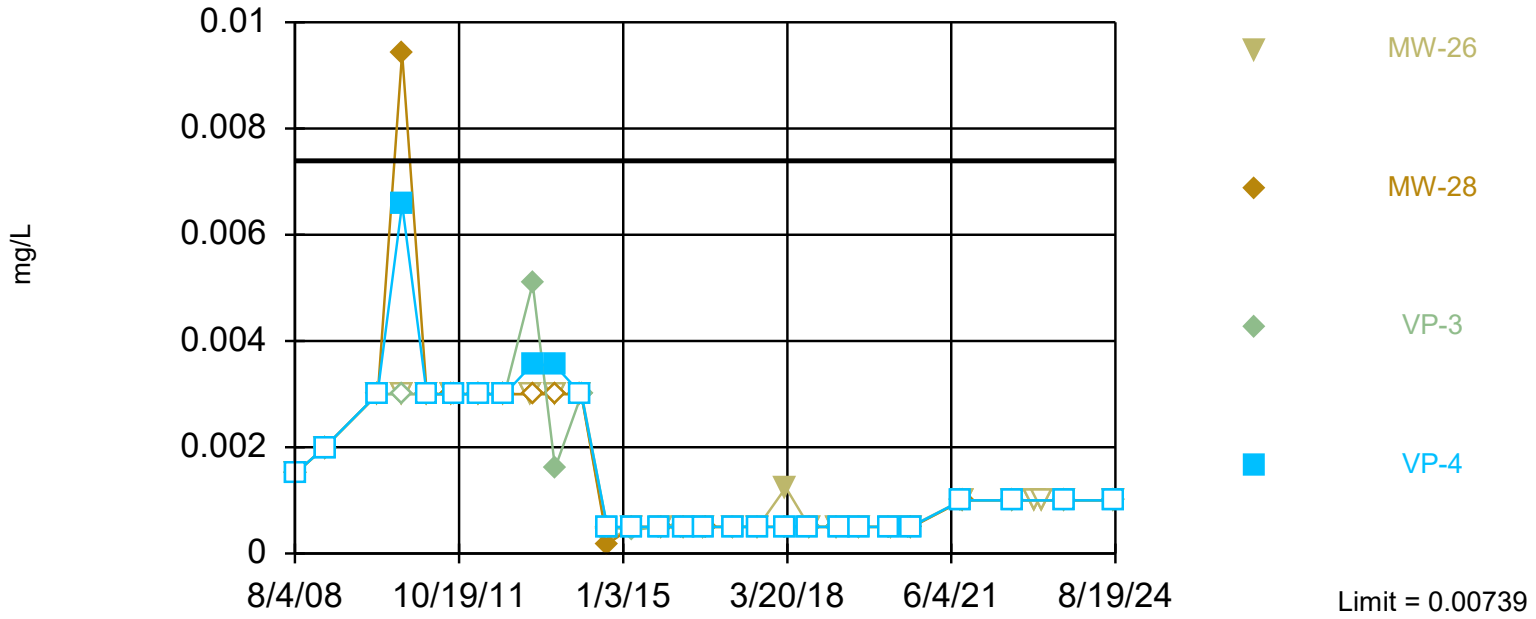
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 82.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Antimony Analysis Run 10/16/2024 5:32 PM

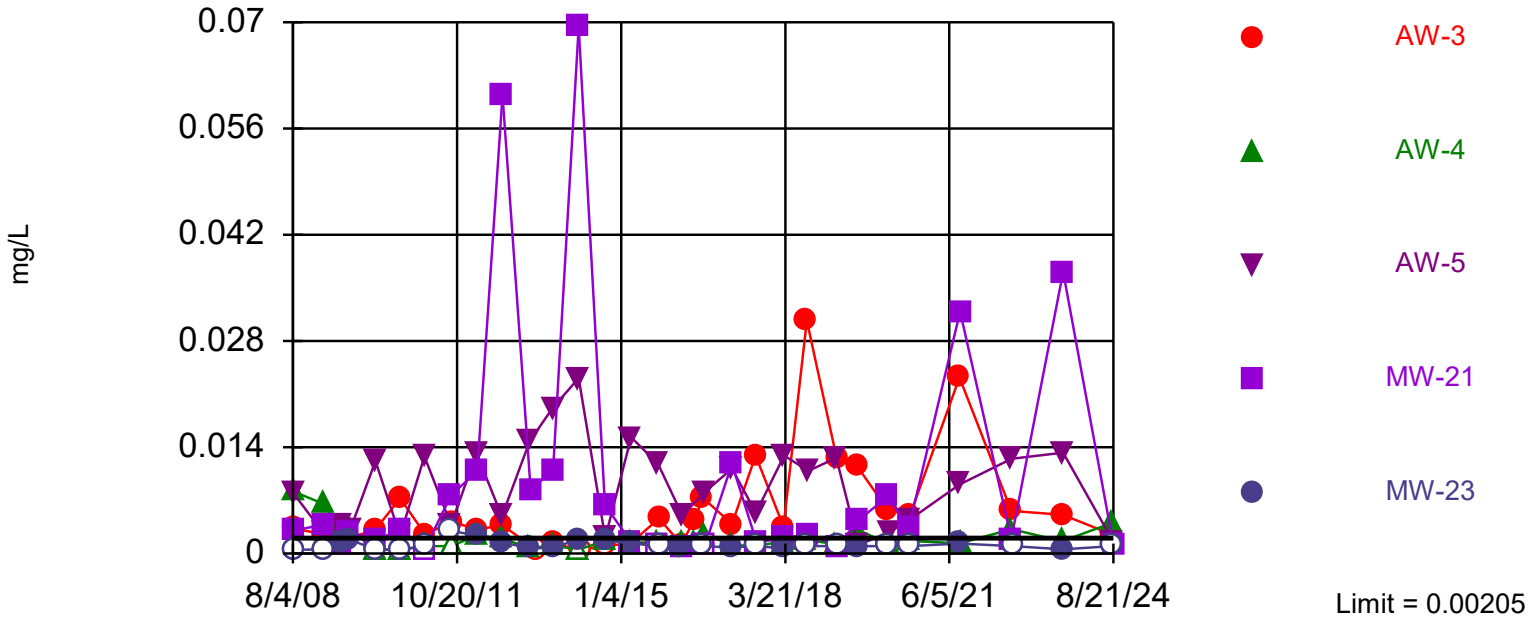
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: AW-3, AW-4

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 81.13% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Arsenic Analysis Run 10/16/2024 5:30 PM

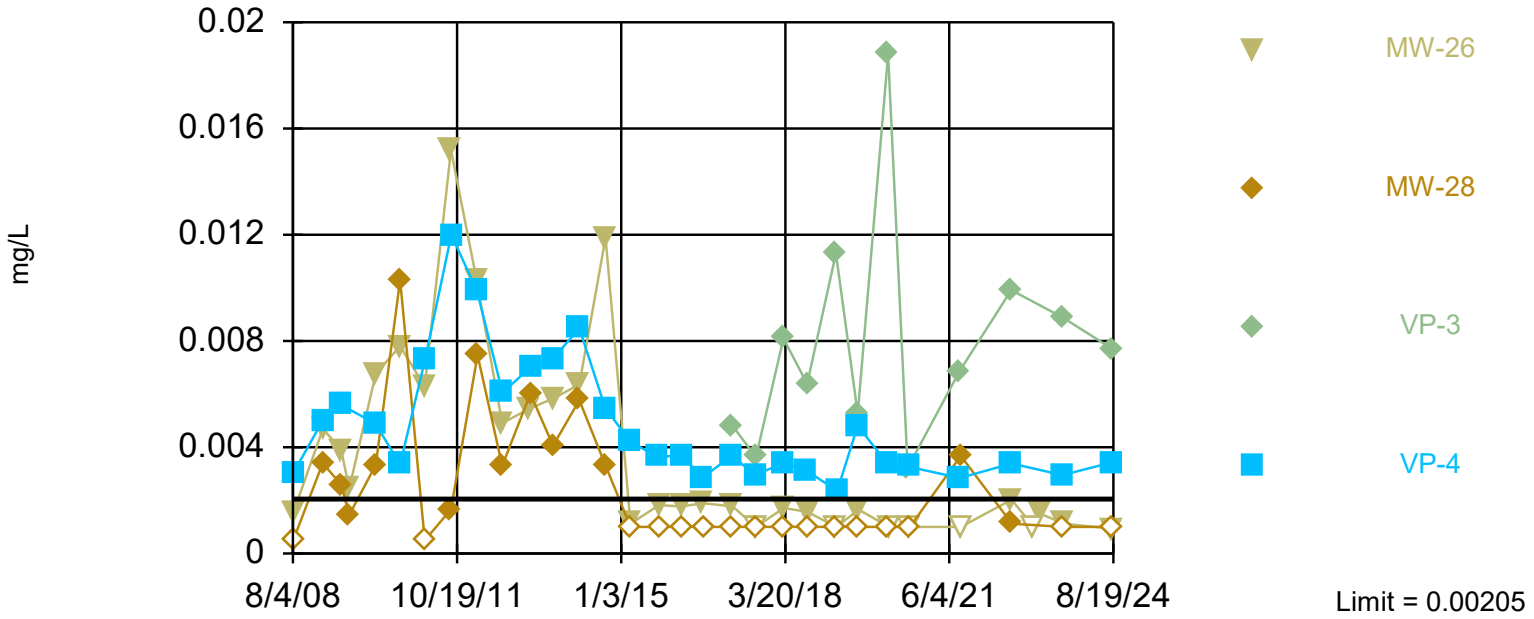
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: VP-3, VP-4

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 81.13% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Arsenic Analysis Run 10/16/2024 5:32 PM

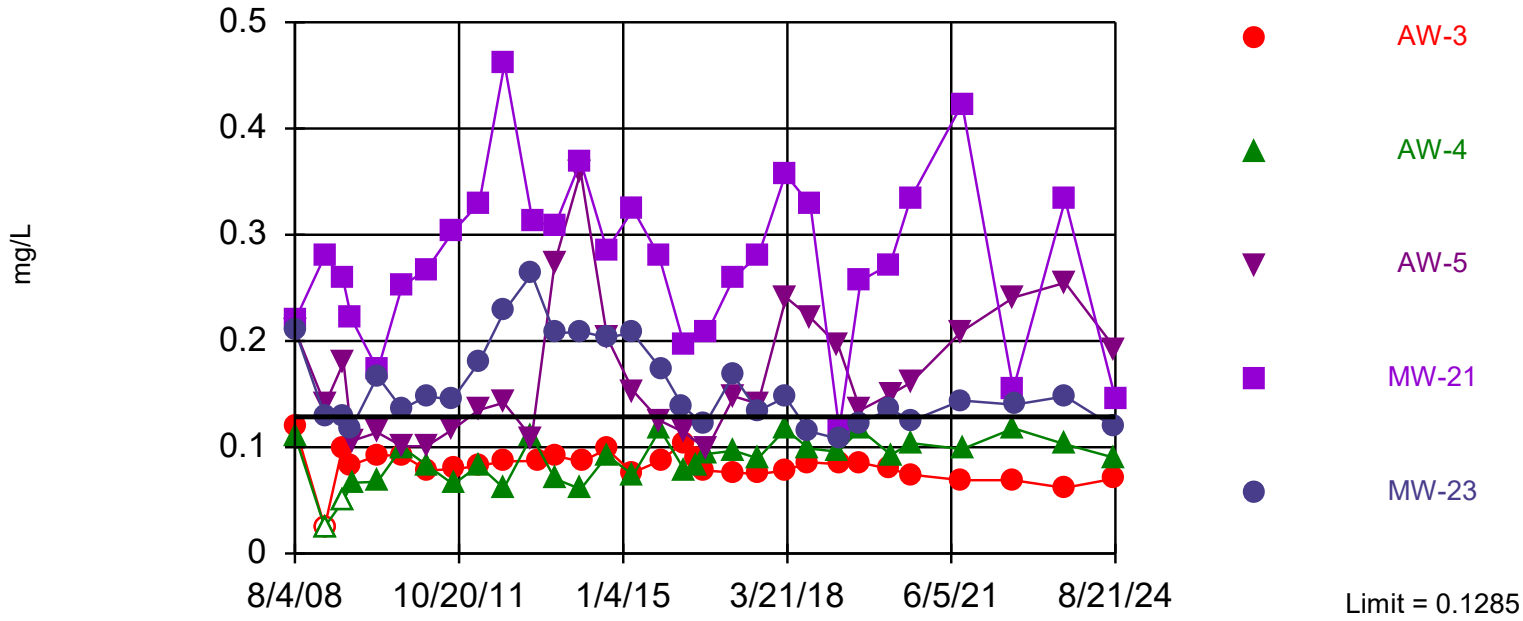
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: AW-5, MW-21

Prediction Limit - Assessment Monitoring

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.06, Std. Dev.=0.4357, n=49. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9351, critical = 0.929. Kappa = 2.314 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Barium Analysis Run 10/16/2024 5:30 PM

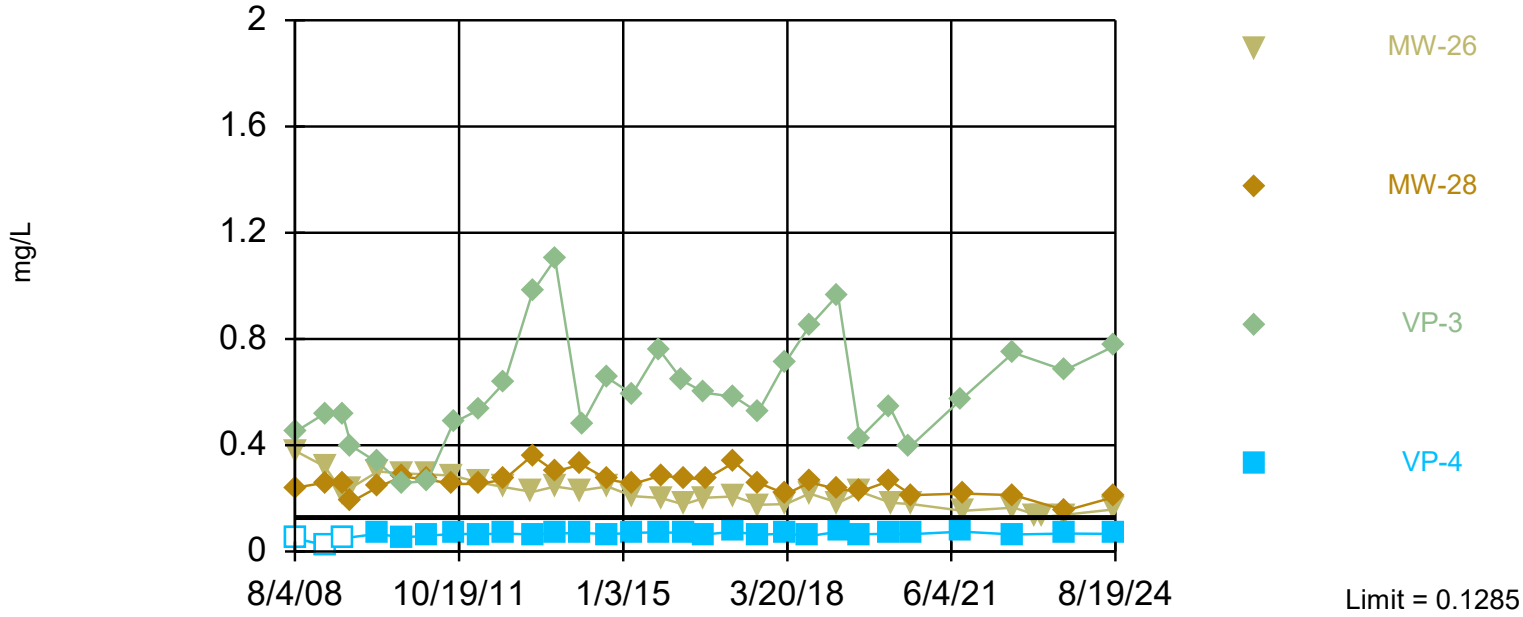
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-26, MW-28, VP-3

Prediction Limit - Assessment Monitoring

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.06, Std. Dev.=0.4357, n=49. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9351, critical = 0.929. Kappa = 2.314 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Barium Analysis Run 10/16/2024 5:33 PM

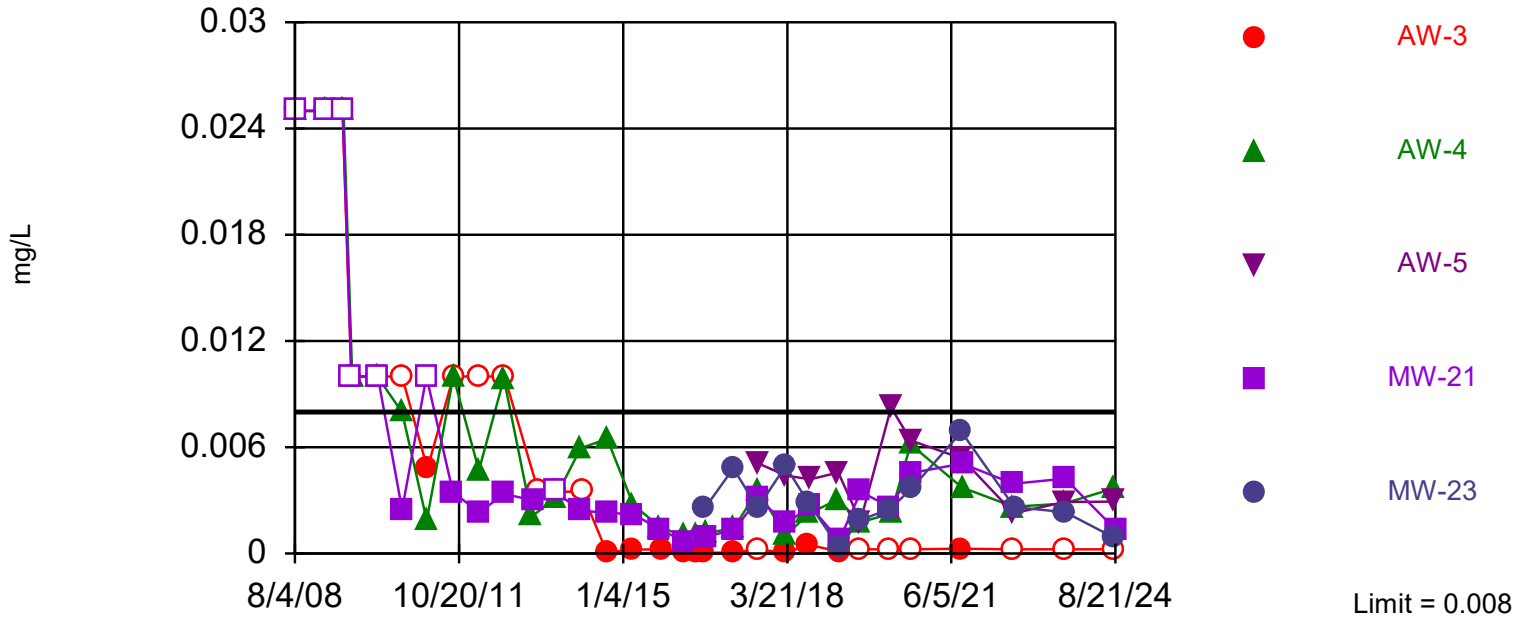
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

Constituent: Cobalt Analysis Run 10/16/2024 5:30 PM

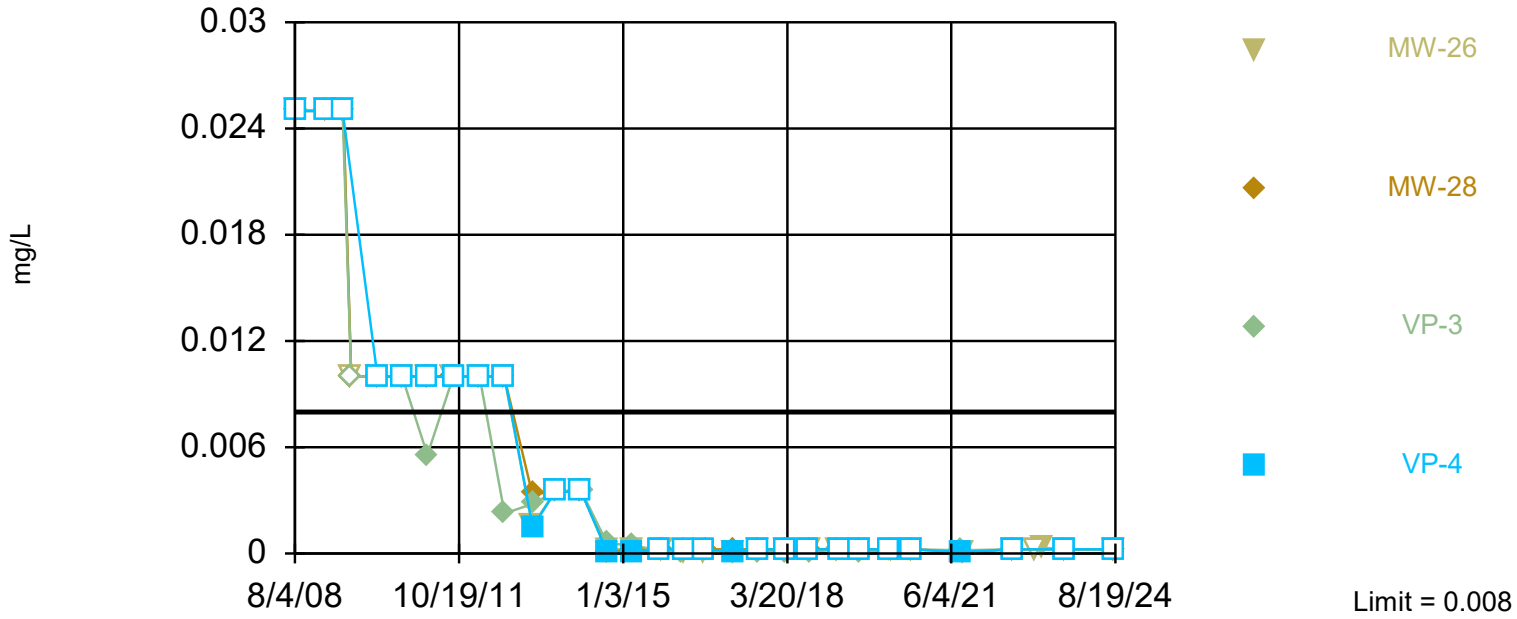
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

Constituent: Cobalt Analysis Run 10/16/2024 5:33 PM

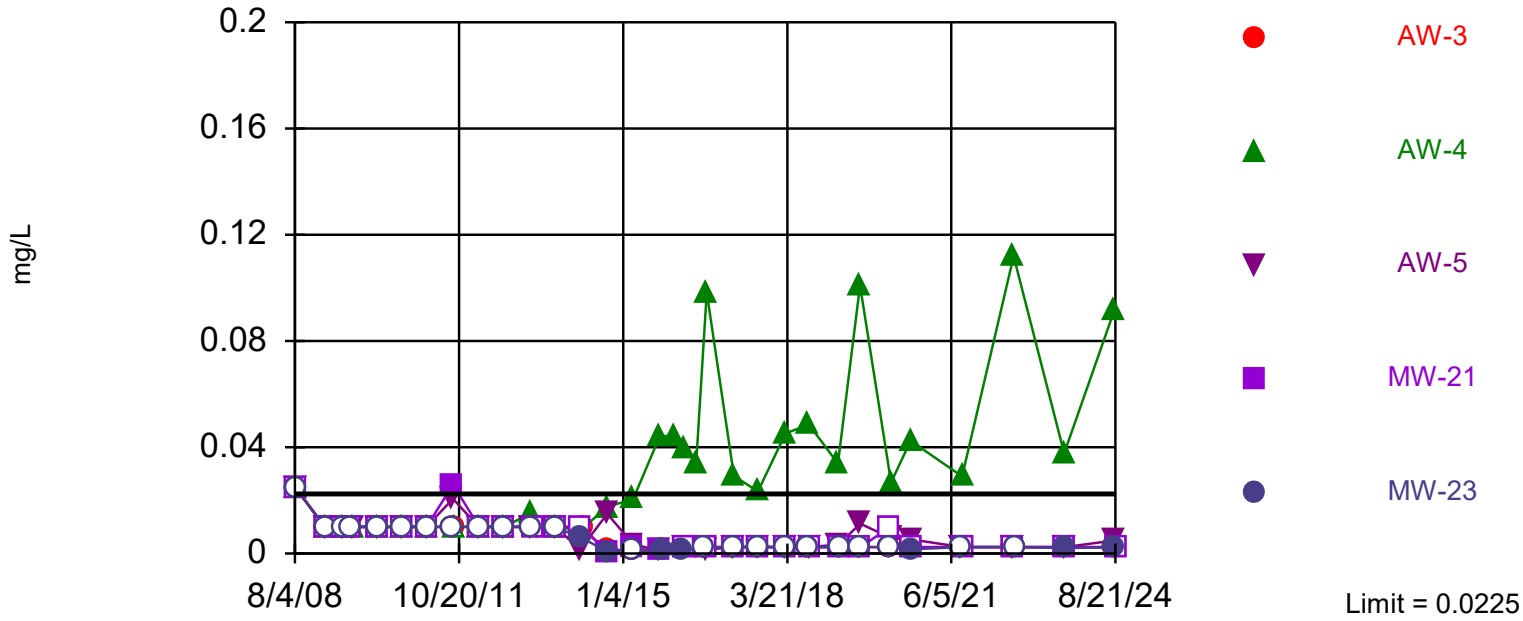
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: AW-4

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 94.23% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Copper Analysis Run 10/16/2024 5:30 PM

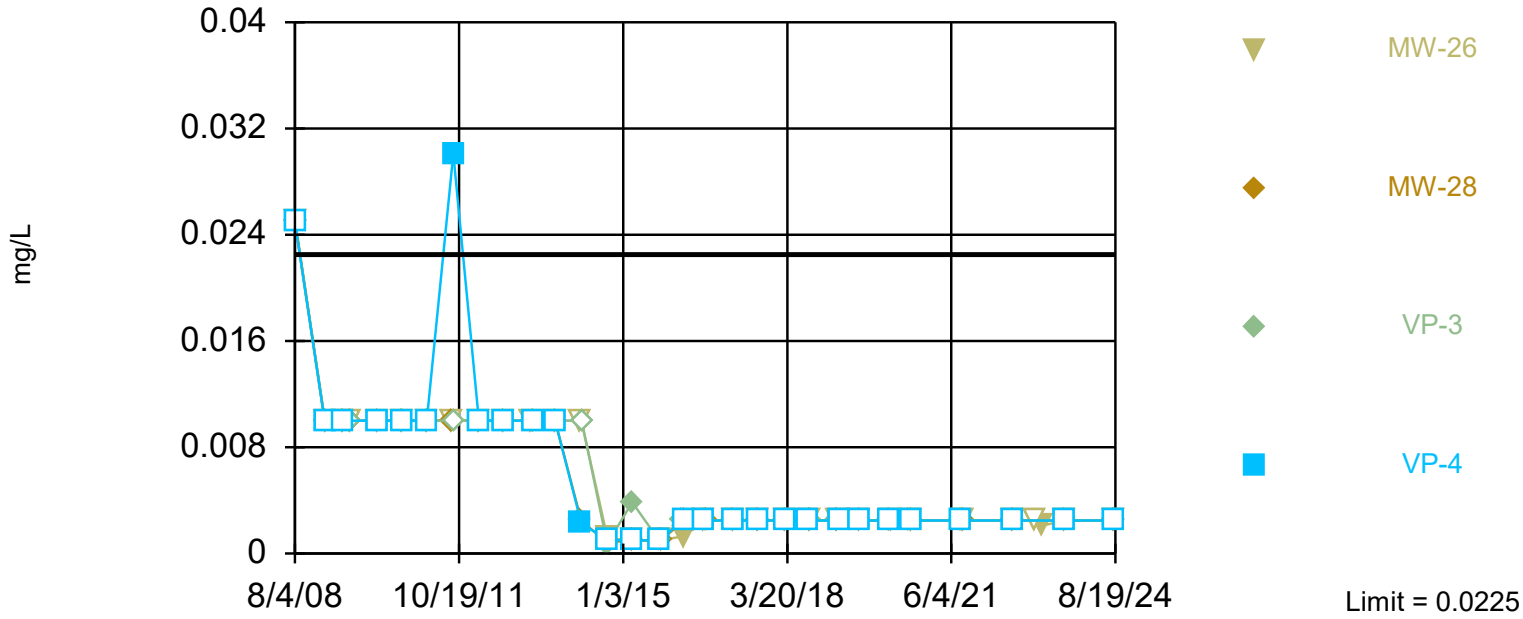
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 94.23% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Copper Analysis Run 10/16/2024 5:33 PM

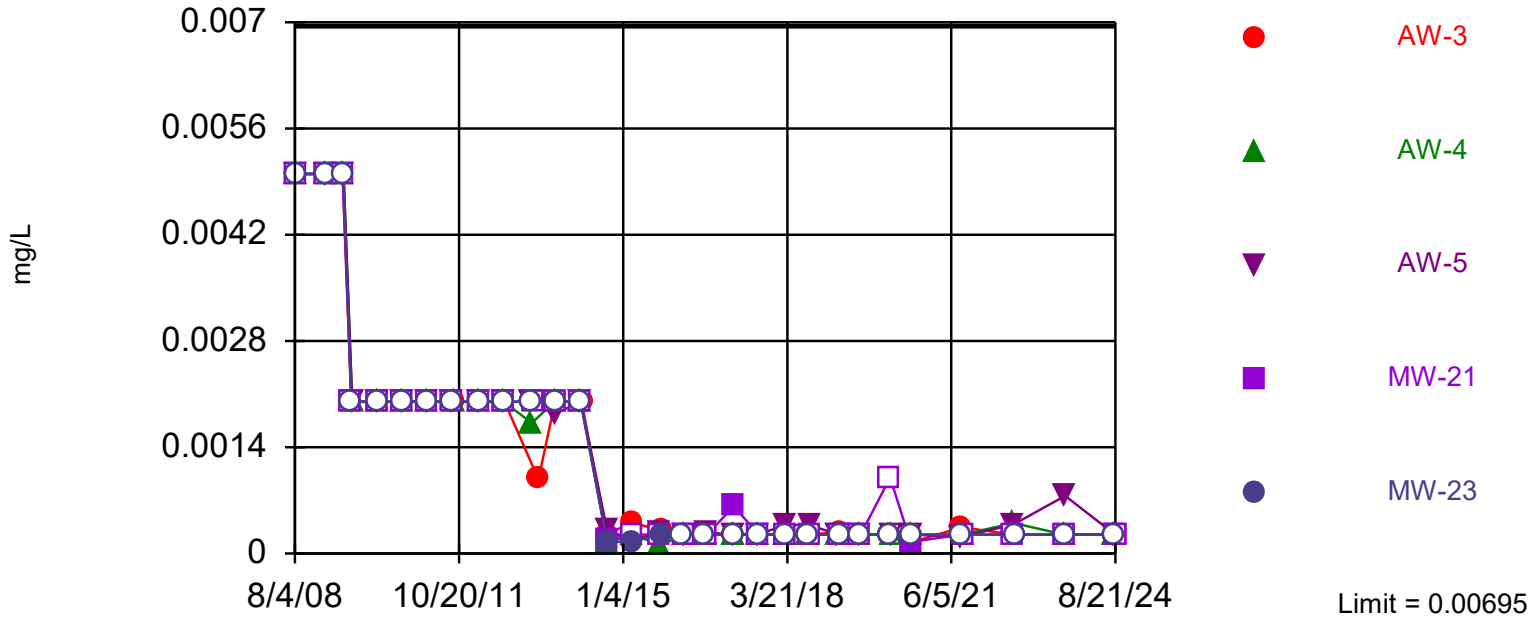
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 78.43% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Lead Analysis Run 10/16/2024 5:30 PM

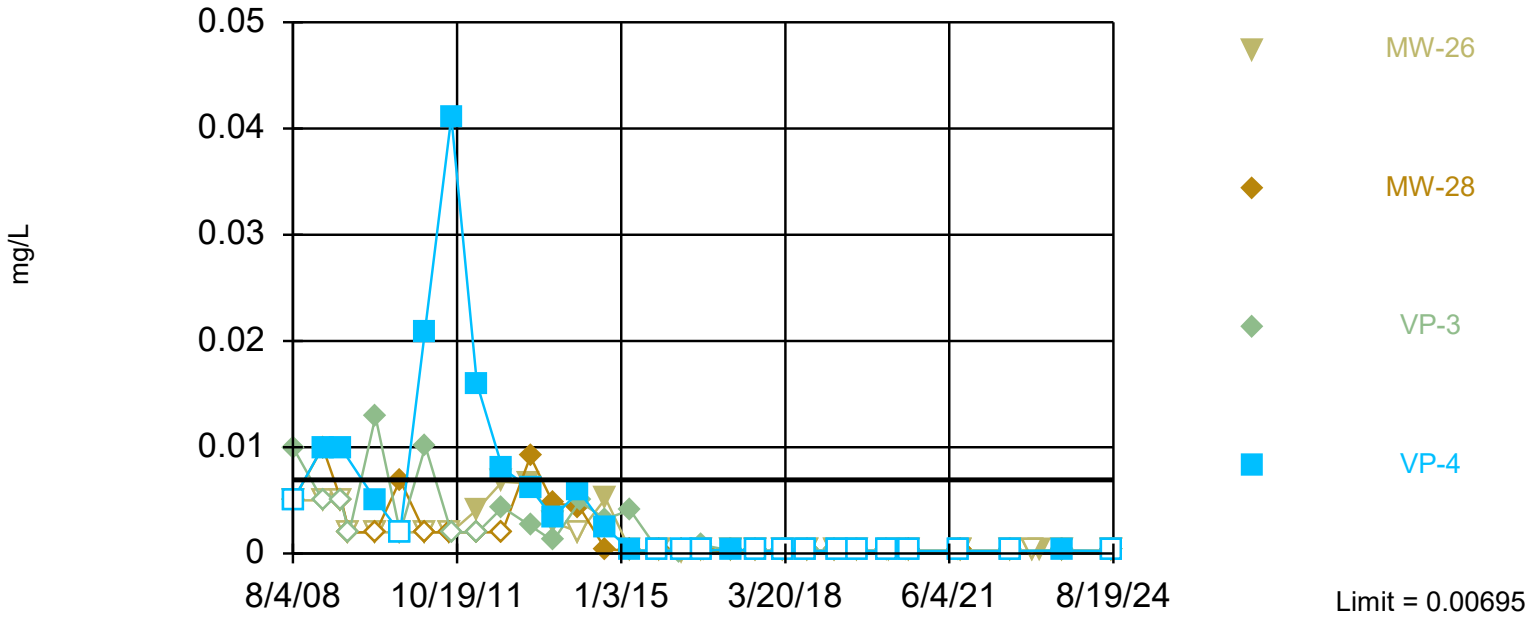
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 78.43% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Lead Analysis Run 10/16/2024 5:33 PM

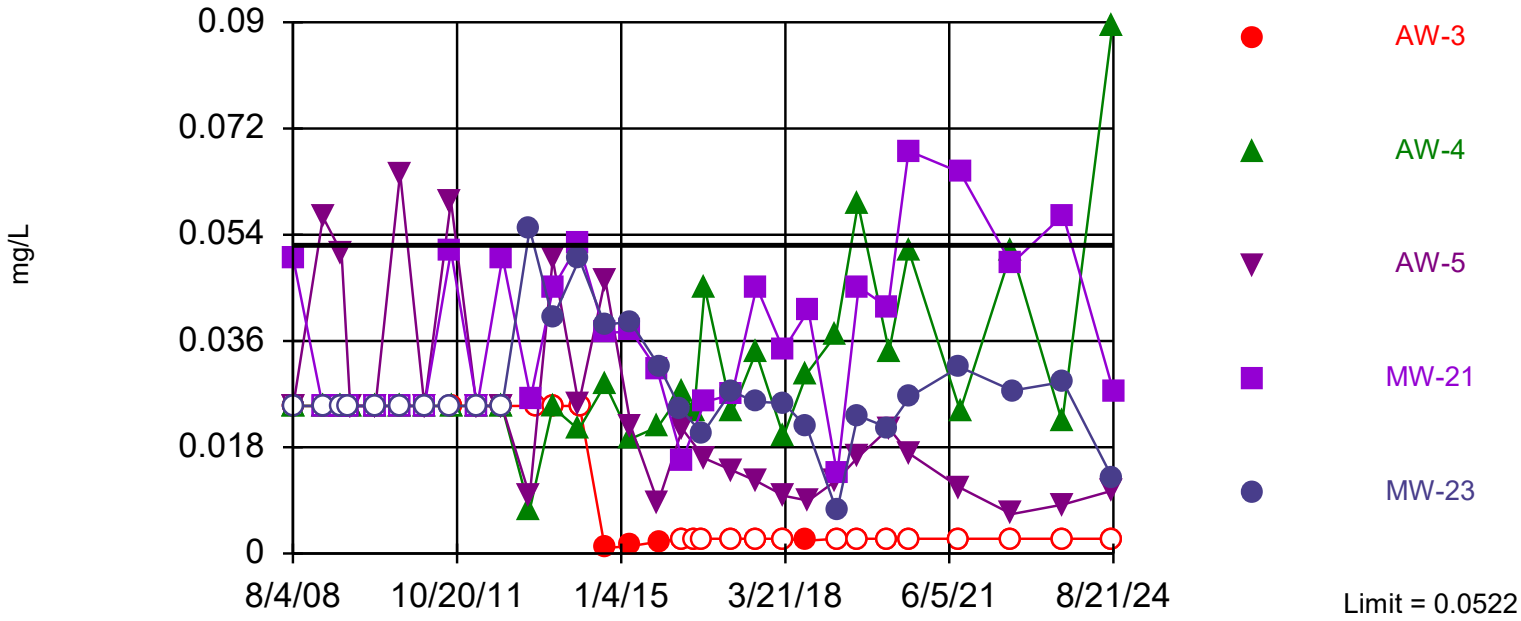
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: AW-4

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 57.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Nickel Analysis Run 10/16/2024 5:30 PM

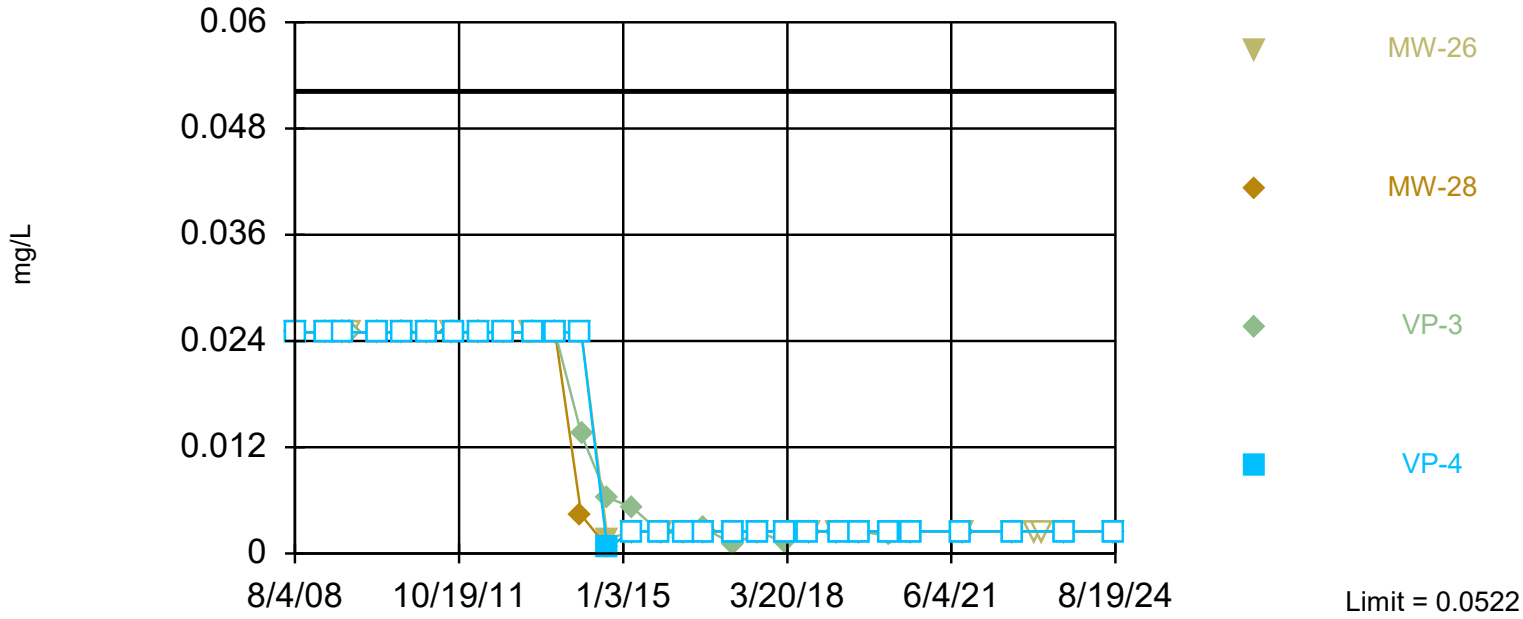
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 57.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Nickel Analysis Run 10/16/2024 5:33 PM

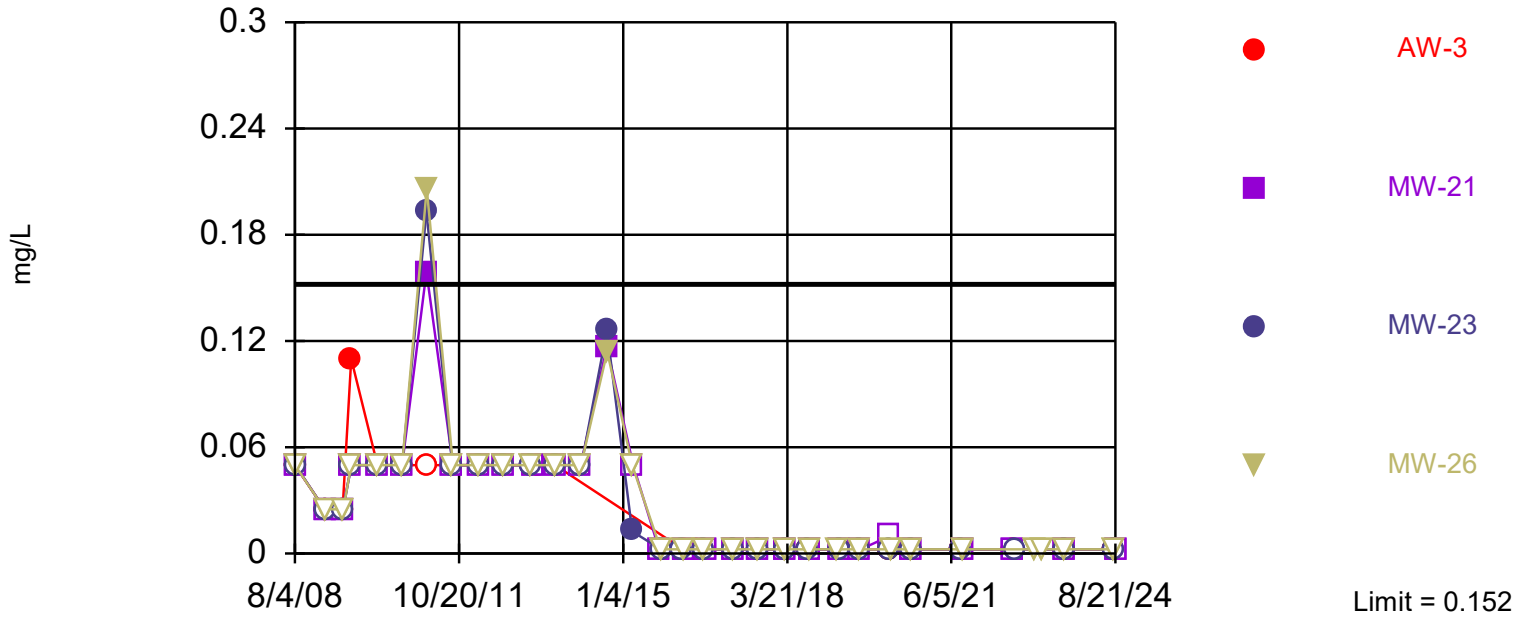
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 54 background values. 96.3% NDs. Annual per-constituent alpha = 0.02478. Individual comparison alpha = 0.0006272 (1 of 2).

Constituent: Tin Analysis Run 10/16/2024 5:33 PM

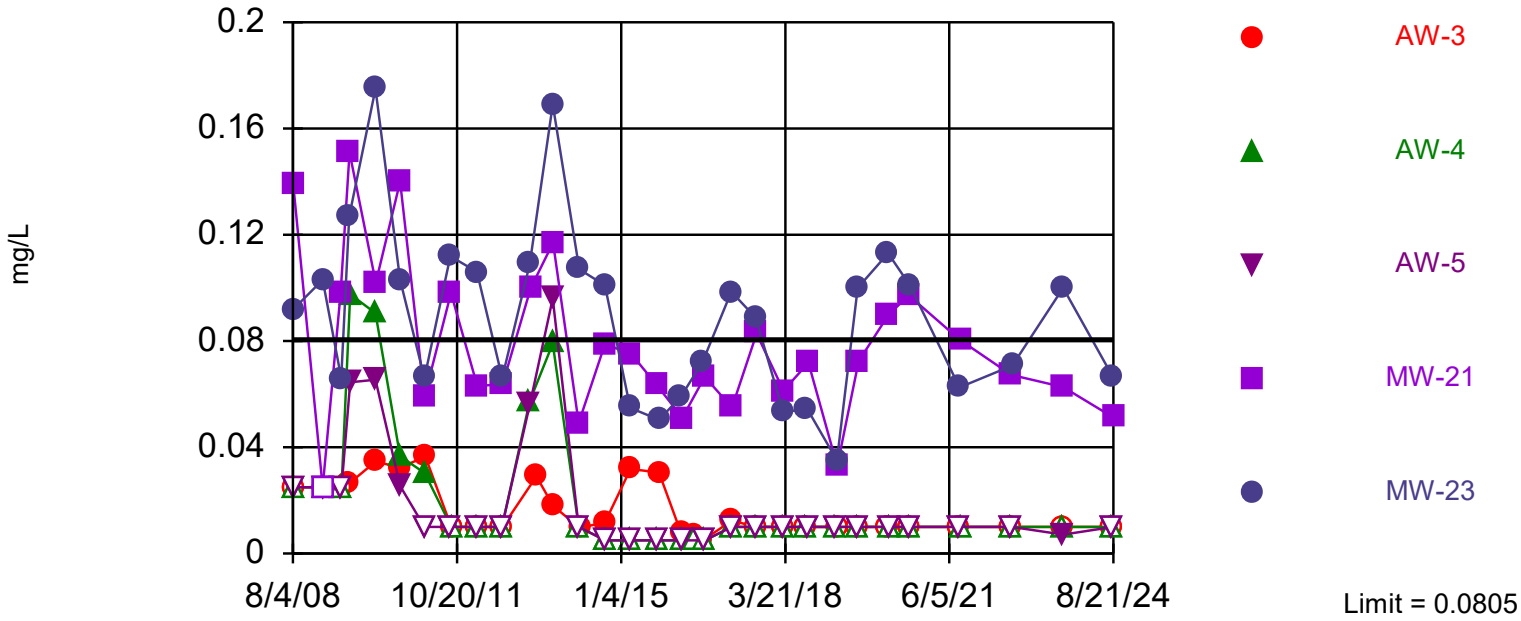
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 54 background values. 87.04% NDs. Annual per-constituent alpha = 0.02478. Individual comparison alpha = 0.0006272 (1 of 2).

Constituent: Zinc Analysis Run 10/16/2024 5:30 PM

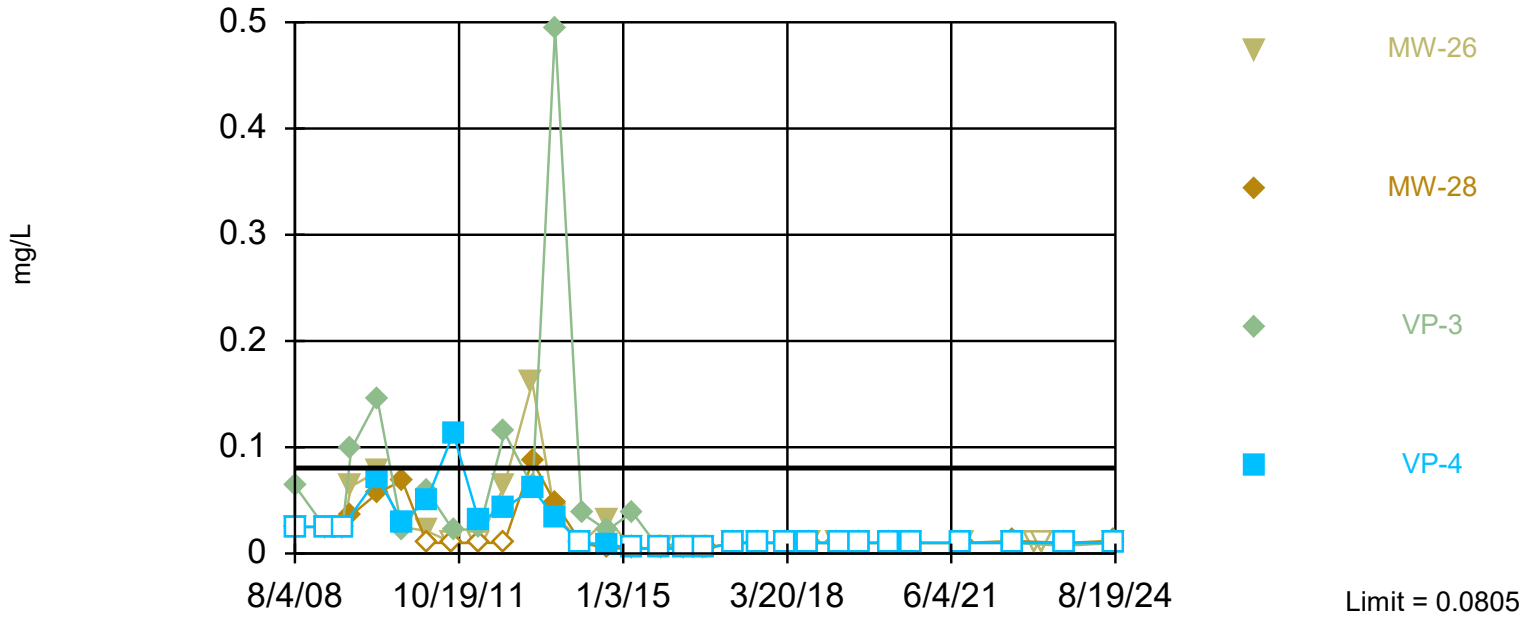
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 54 background values. 87.04% NDs. Annual per-constituent alpha = 0.02478. Individual comparison alpha = 0.0006272 (1 of 2).

Constituent: Zinc Analysis Run 10/16/2024 5:33 PM

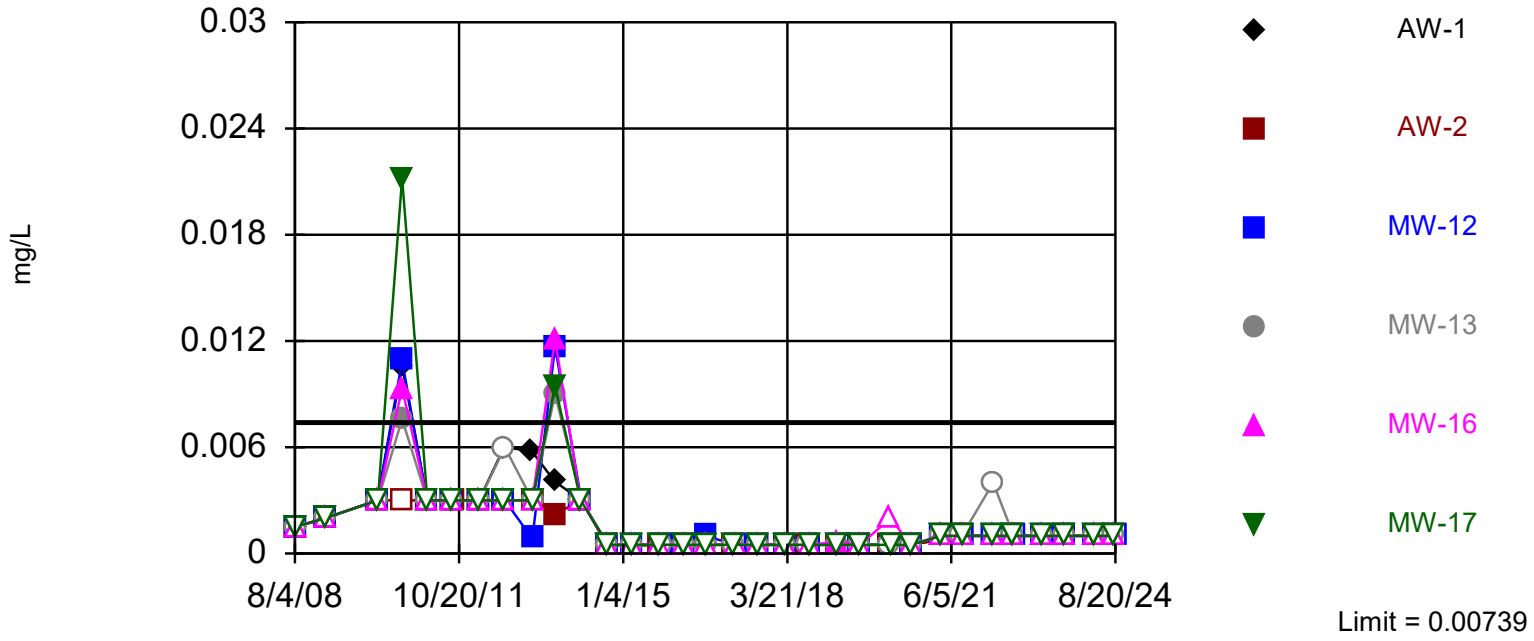
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 82.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Antimony Analysis Run 10/17/2024 10:31 AM

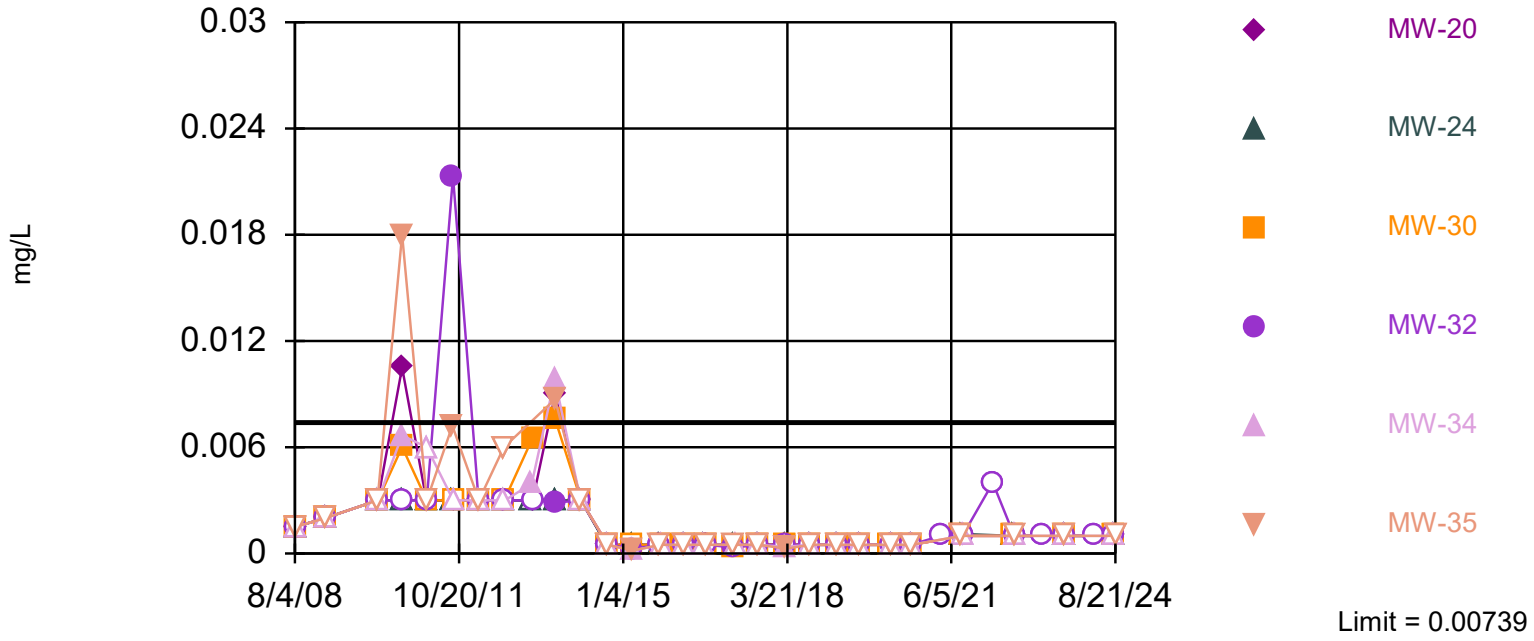
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 82.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Antimony Analysis Run 10/17/2024 10:39 AM

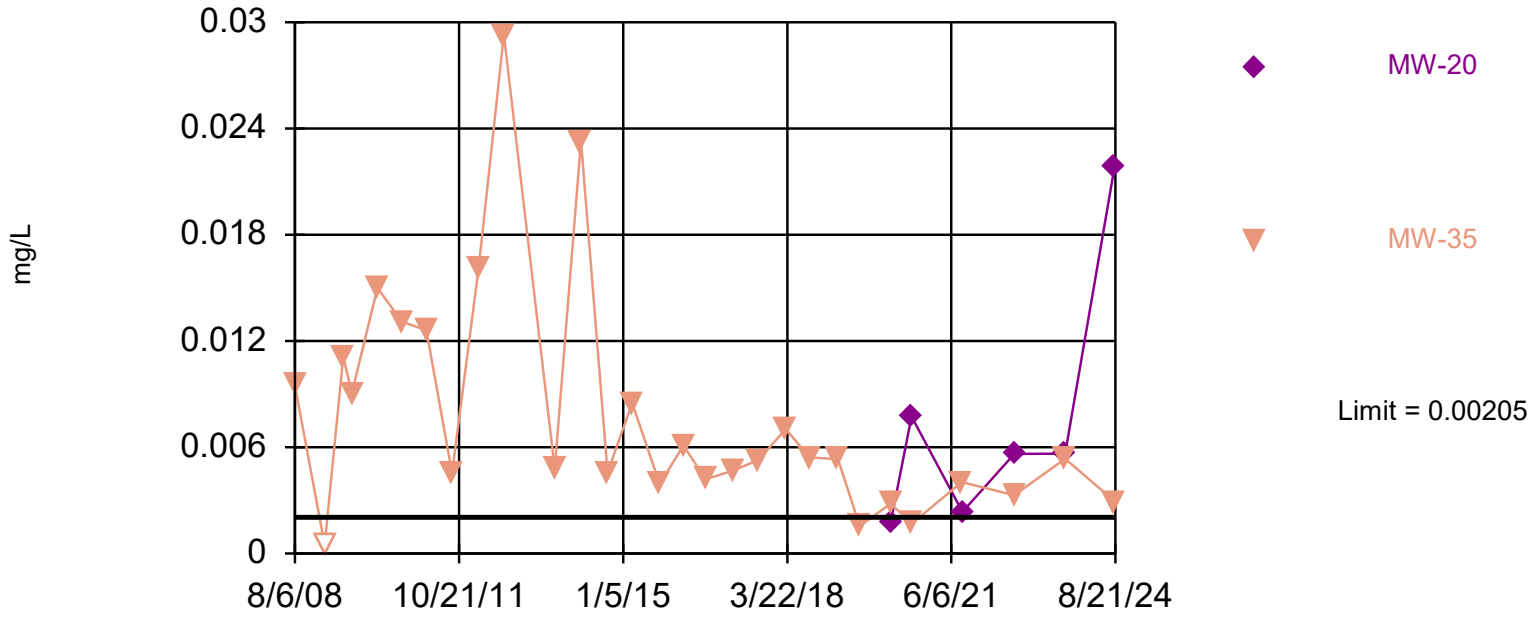
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-20, MW-35

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 81.13% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Arsenic Analysis Run 10/17/2024 10:31 AM

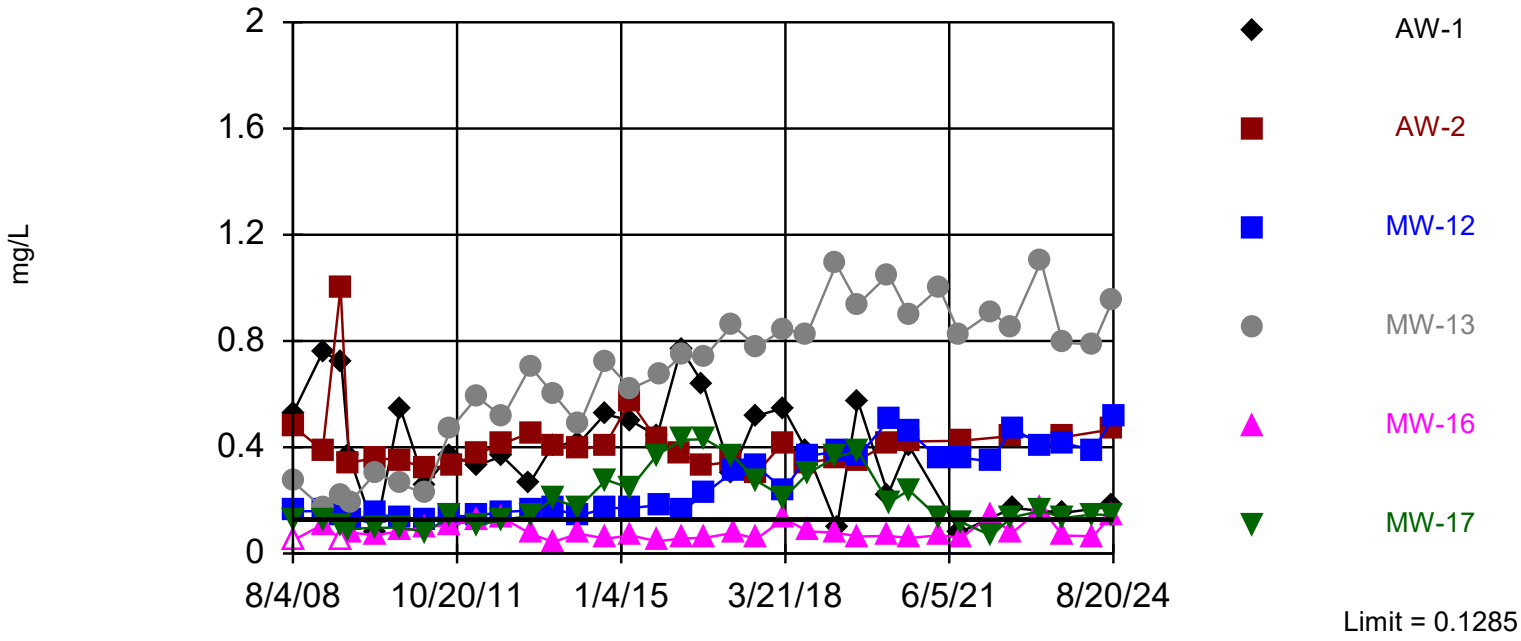
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: AW-1, AW-2, MW-12, MW-13, MW-16, MW-17

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.06, Std. Dev.=0.4357, n=49. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9351, critical = 0.929. Kappa = 2.314 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Barium Analysis Run 10/17/2024 10:31 AM

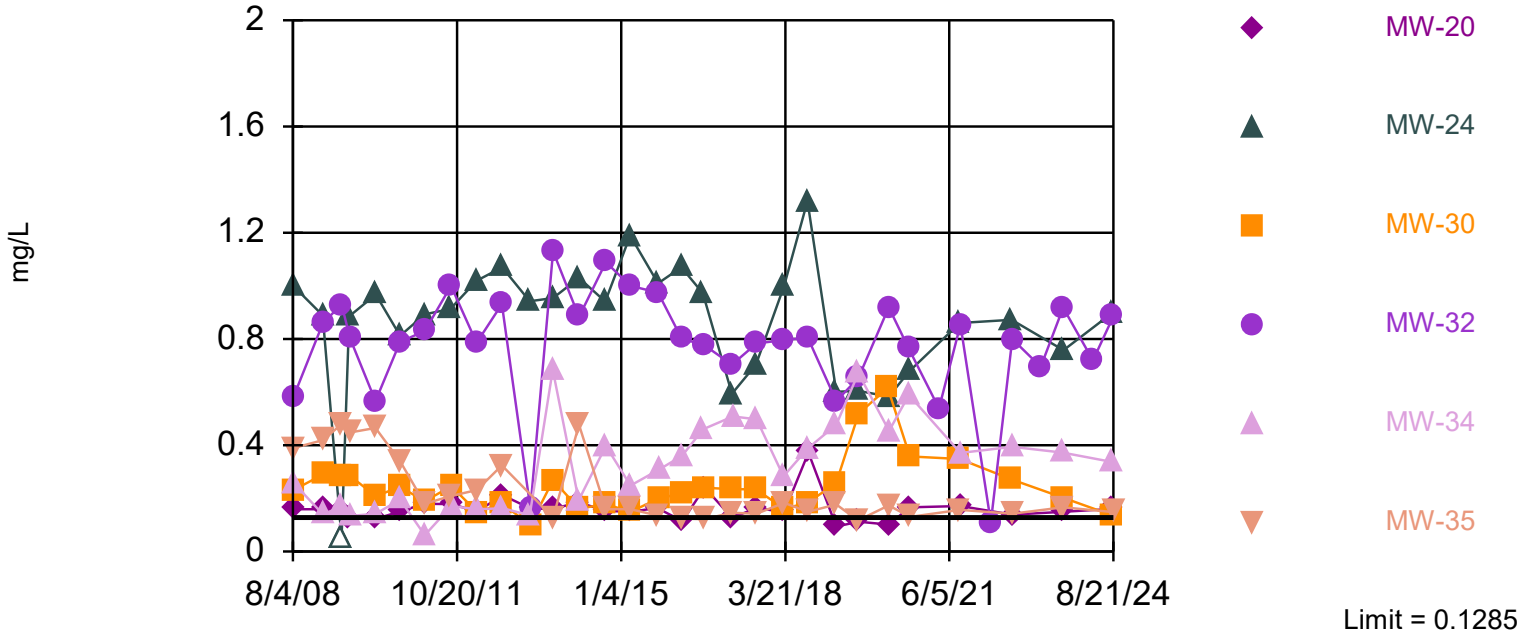
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-20, MW-24, MW-30, MW-32, MW-34, MW-35

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.06, Std. Dev.=0.4357, n=49. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9351, critical = 0.929. Kappa = 2.314 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Barium Analysis Run 10/17/2024 10:39 AM

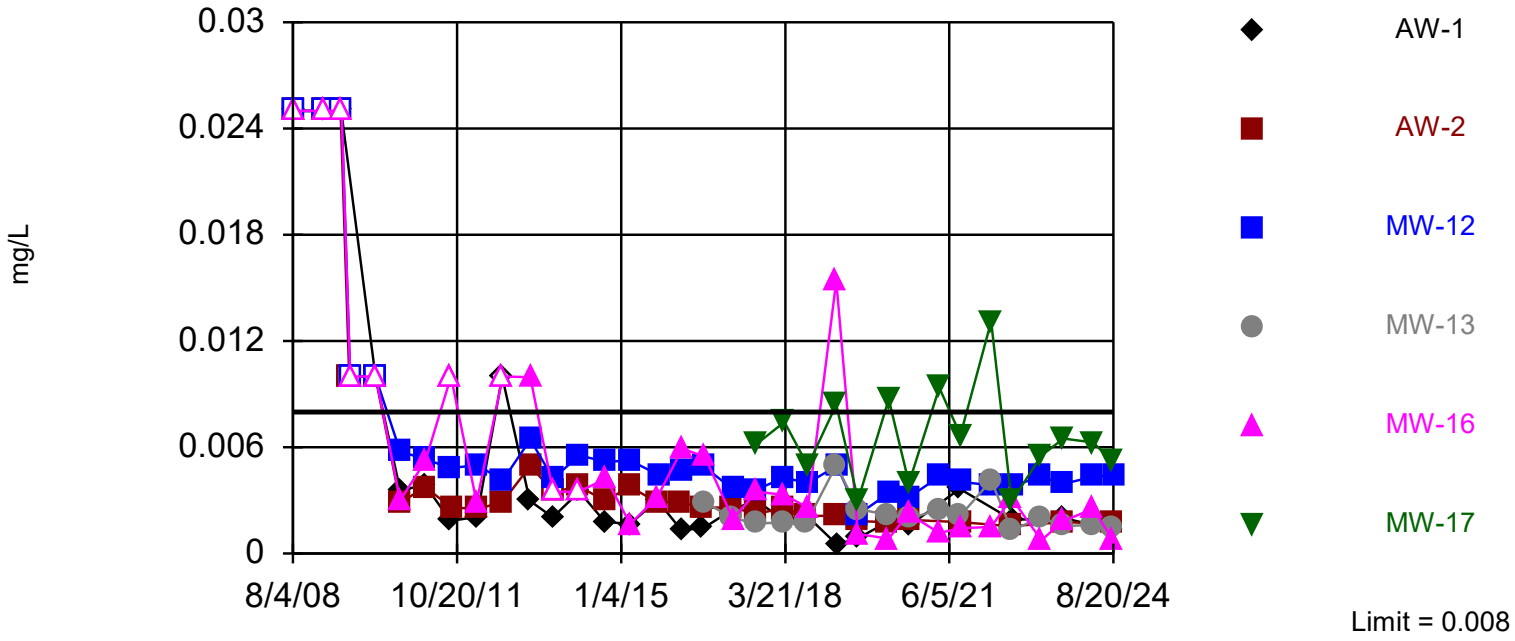
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

Constituent: Cobalt Analysis Run 10/17/2024 10:31 AM

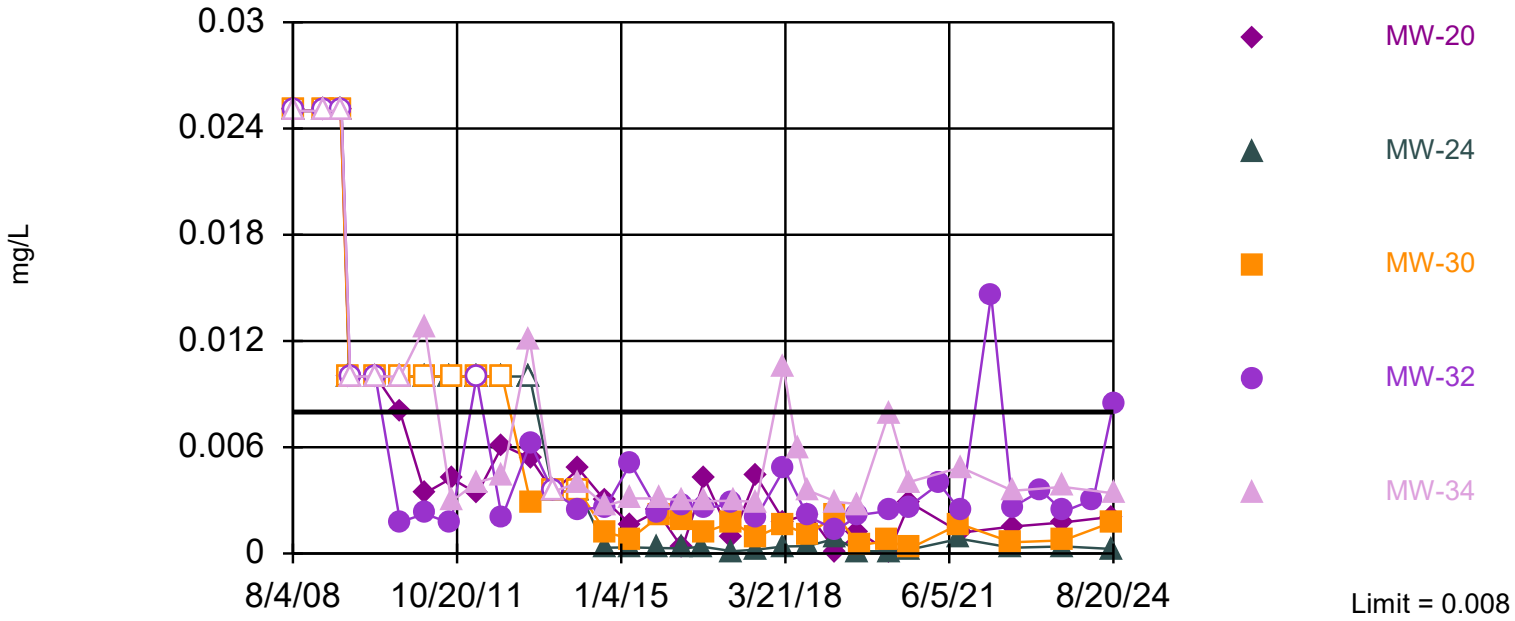
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-32

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

Constituent: Cobalt Analysis Run 10/17/2024 10:39 AM

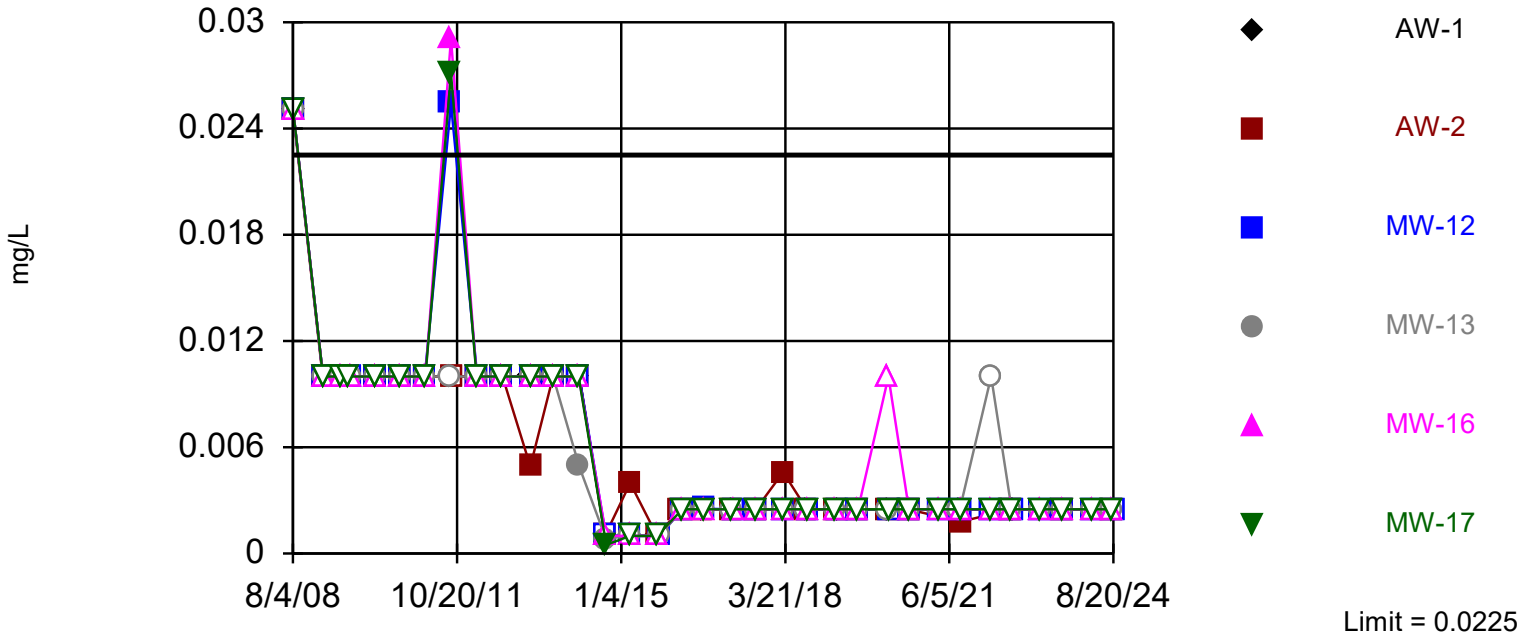
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 94.23% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Copper Analysis Run 10/17/2024 10:31 AM

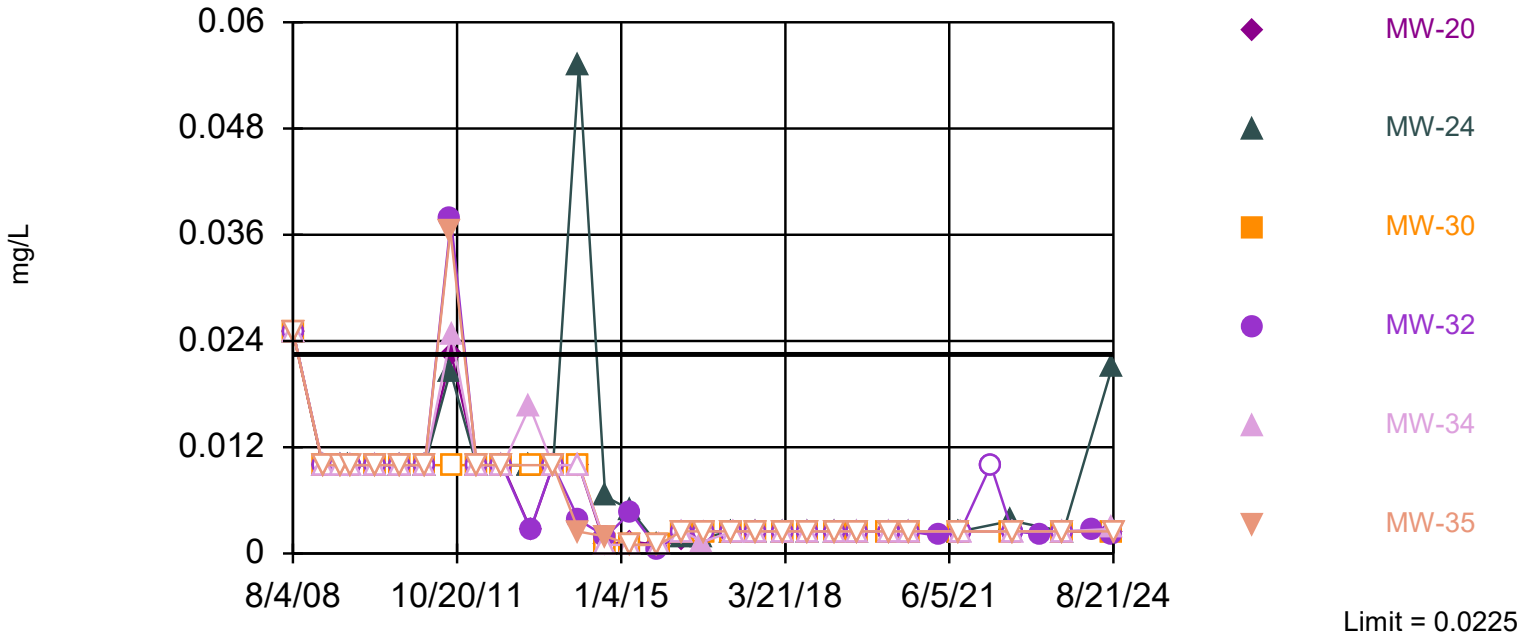
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 94.23% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Copper Analysis Run 10/17/2024 10:39 AM

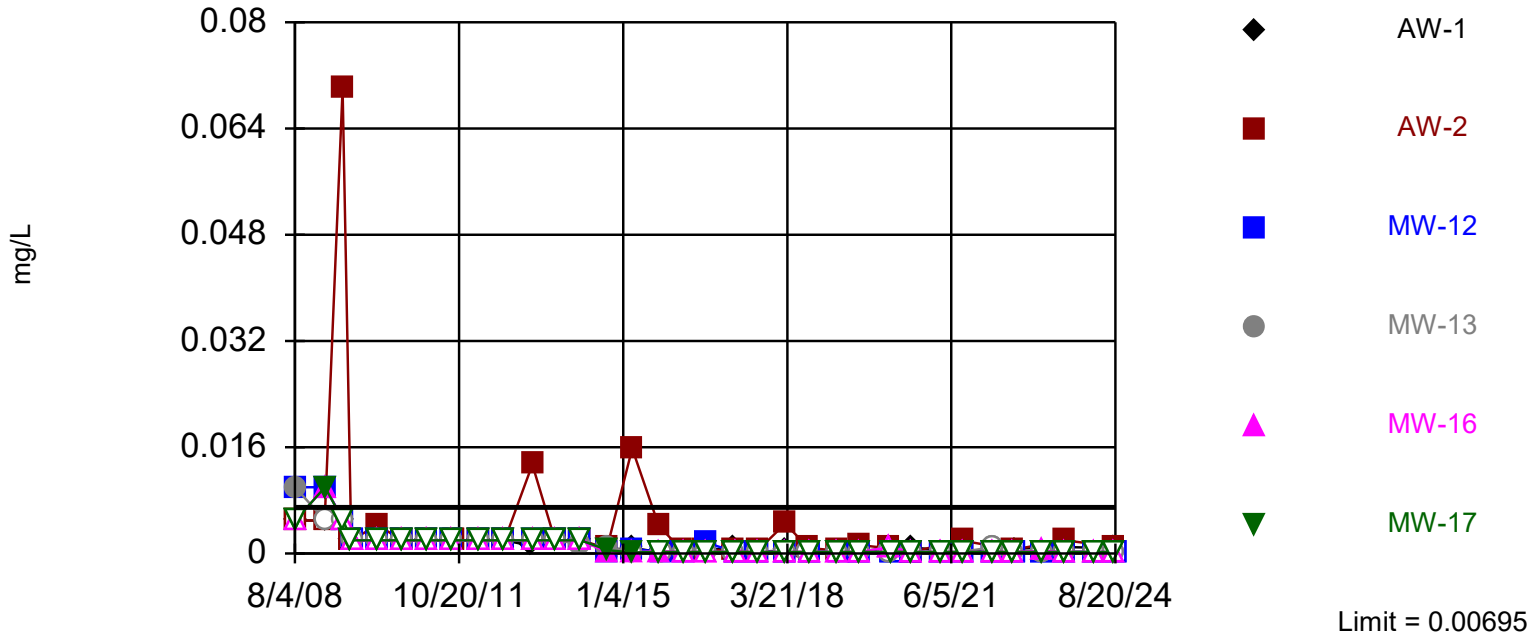
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 78.43% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Lead Analysis Run 10/17

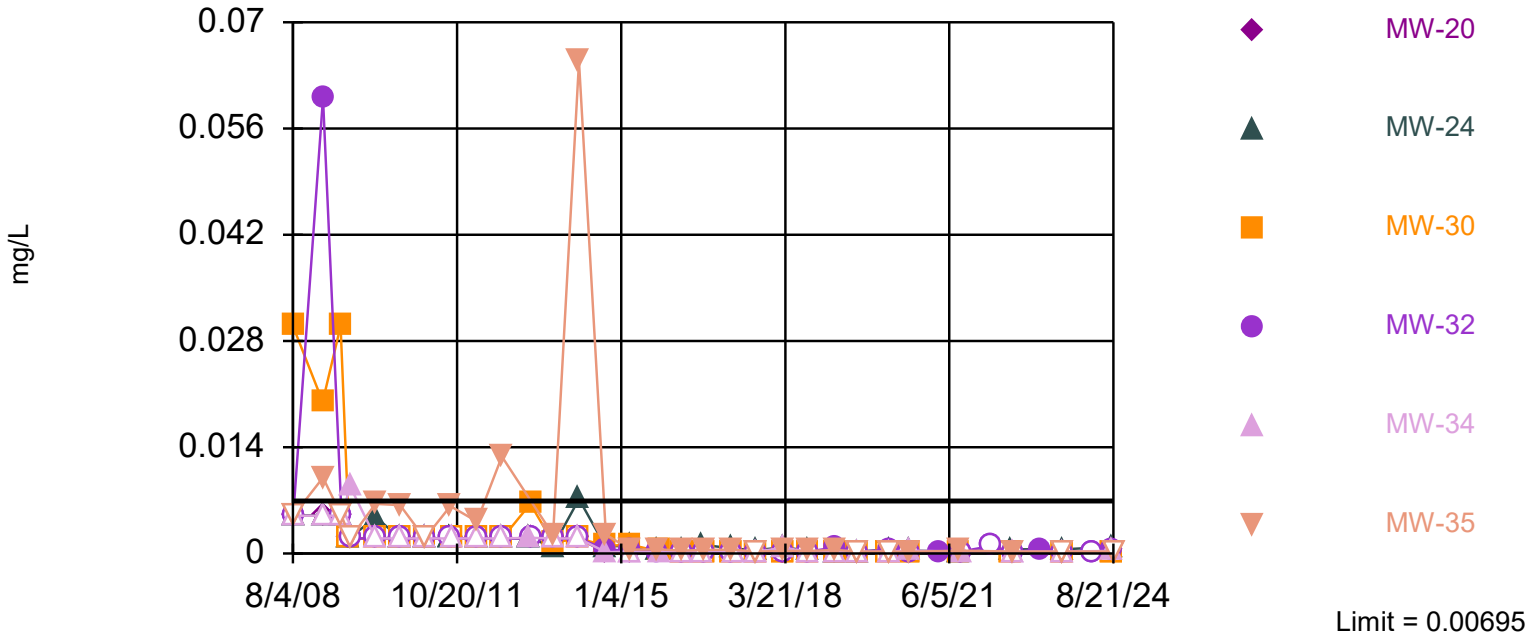
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 78.43% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Lead Analysis Run 10/17/2024 10:39 AM

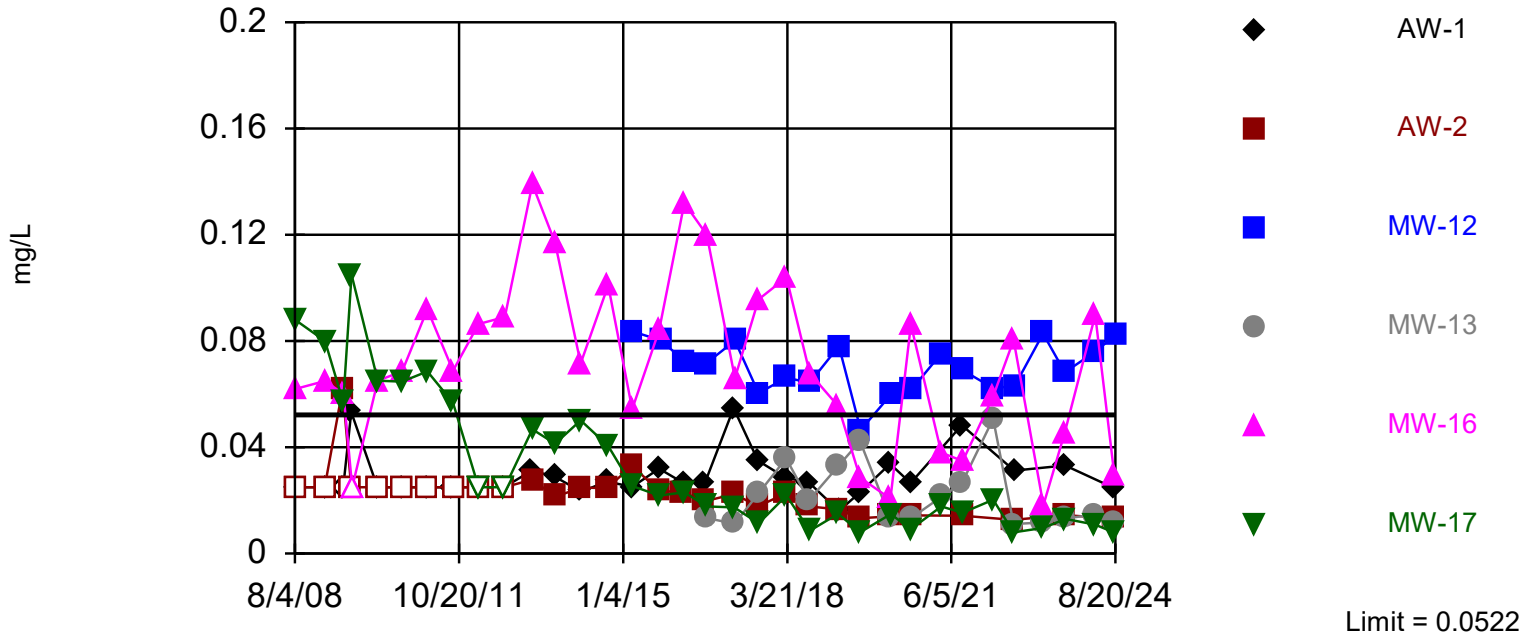
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-12

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 57.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Nickel Analysis Run 10/17/2024 10:31 AM

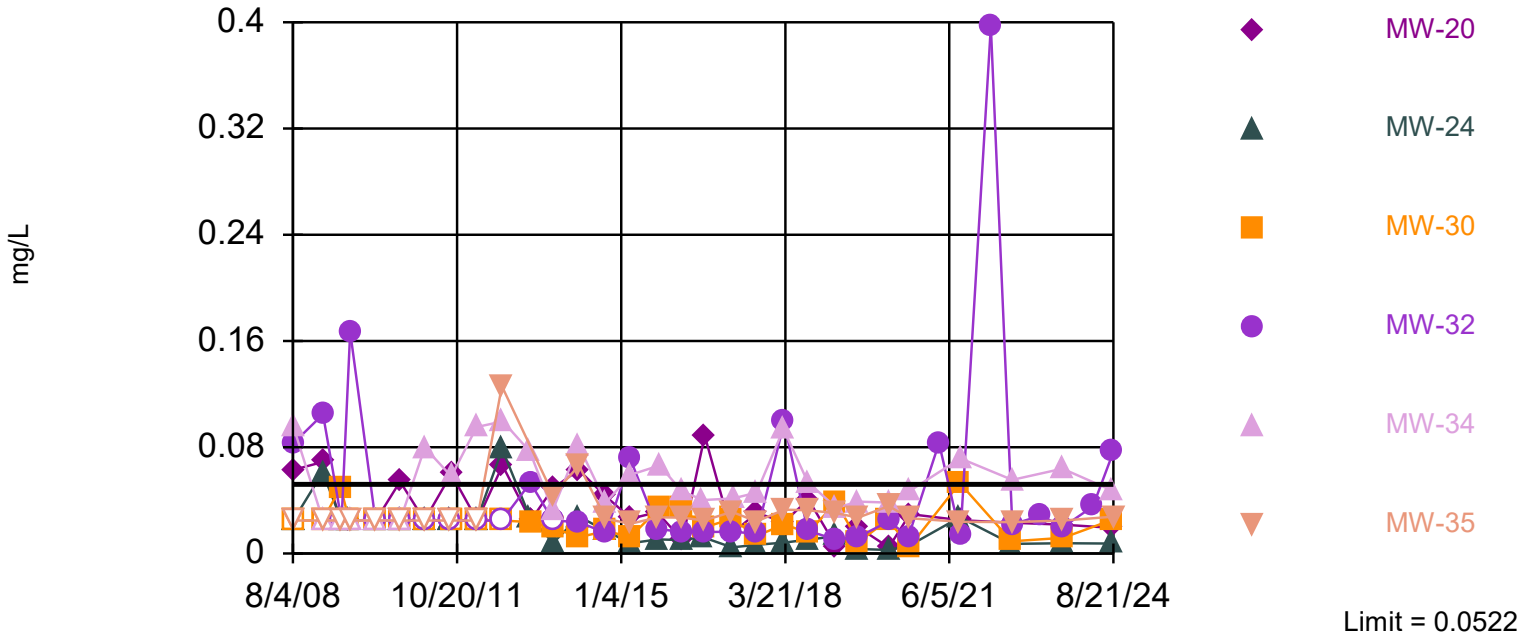
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-32

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 57.69% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Nickel Analysis Run 10/17/2024 10:39 AM

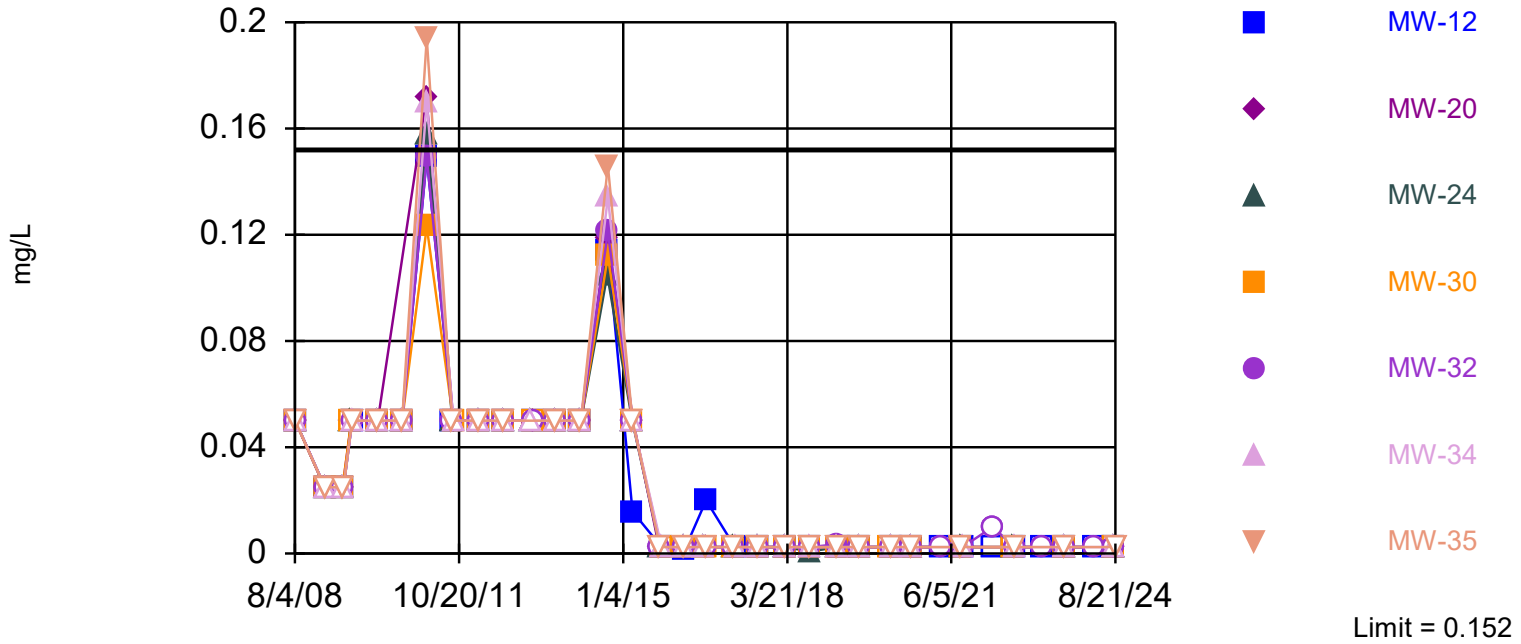
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 54 background values. 96.3% NDs. Annual per-constituent alpha = 0.02478. Individual comparison alpha = 0.0006272 (1 of 2).

Constituent: Tin Analysis Run 10/17/2024 10:31 AM

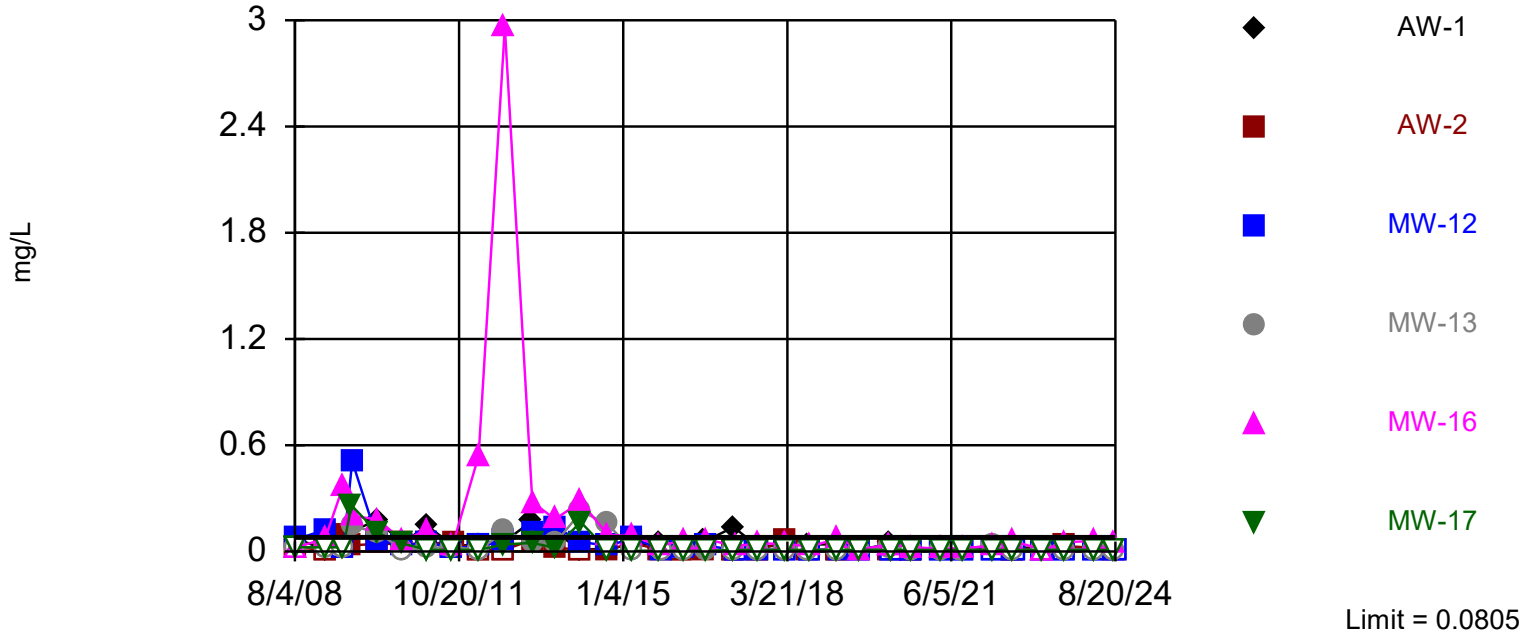
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 54 background values. 87.04% NDs. Annual per-constituent alpha = 0.02478. Individual comparison alpha = 0.0006272 (1 of 2).

Constituent: Zinc Analysis Run 10/17/2024 10:31 AM

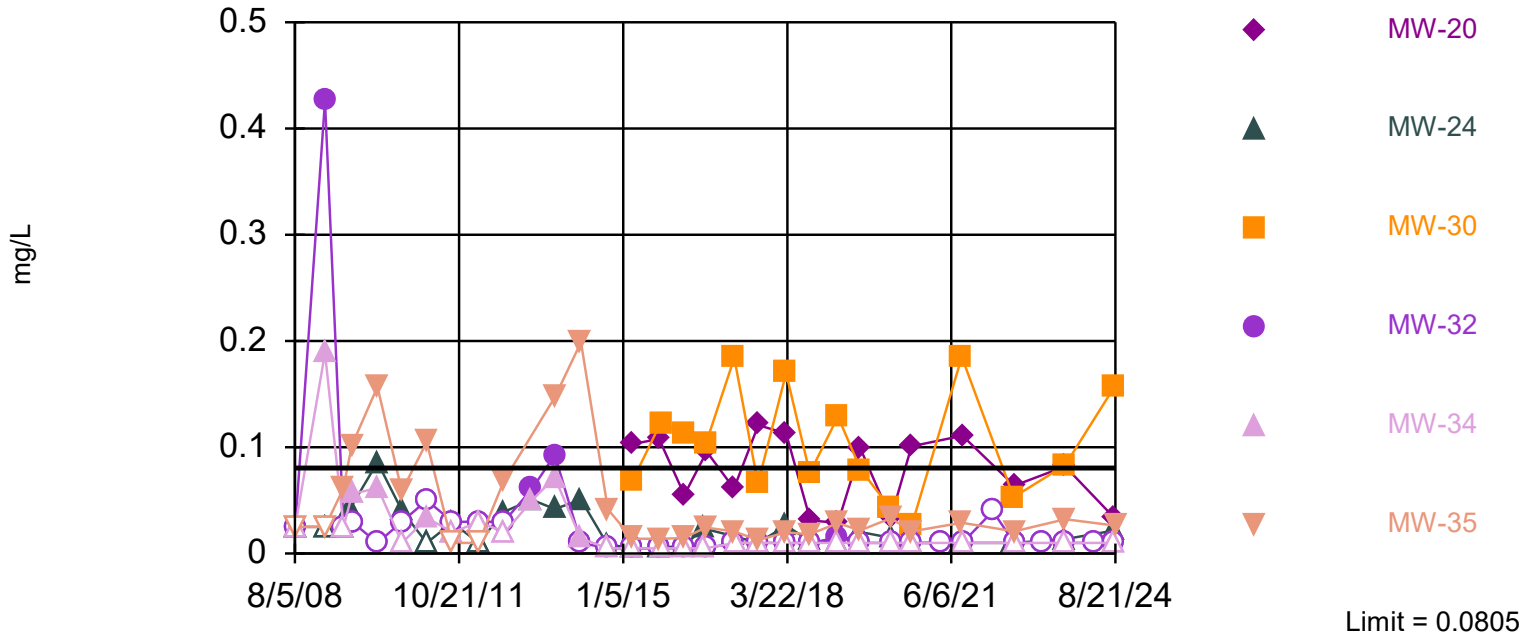
Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-30

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 54 background values. 87.04% NDs. Annual per-constituent alpha = 0.02478. Individual comparison alpha = 0.0006272 (1 of 2).

Constituent: Zinc Analysis Run 10/17/2024 10:39 AM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Deeper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Detection Monitoring Locations													
Antimony (mg/L)	MW-31	0.0101	8/20/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-31	0.00225	8/20/2024	0.001ND	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-31	0.138	8/20/2024	0.0961	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Cadmium (mg/L)	MW-31	0.000824	8/20/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-31	0.0008717	8/20/2024	0.00025ND	No	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Copper (mg/L)	MW-31	0.0108	8/20/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-31	0.00735	8/20/2024	0.0025ND	No	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-31	0.0366	8/20/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Delineation Monitoring Locations - Assessment Constituents													
Antimony (mg/L)	MW-102B	0.0101	8/20/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-105B	0.0101	8/19/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-107B	0.0101	8/15/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-108B	0.0101	8/21/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-109B	0.0101	8/15/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-102B	0.00225	8/20/2024	0.001ND	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-104B	0.00225	8/21/2024	0.001ND	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-105B	0.00225	8/19/2024	0.00602	Yes	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-107B	0.00225	8/15/2024	0.001ND	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-108B	0.00225	8/21/2024	0.001ND	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-102B	0.138	8/20/2024	0.138	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-105B	0.138	8/19/2024	0.11	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-107B	0.138	8/15/2024	0.326	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-108B	0.138	8/21/2024	0.189	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-109B	0.138	8/15/2024	0.681	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Cadmium (mg/L)	MW-102B	0.000824	8/20/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-105B	0.000824	8/19/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-107B	0.000824	8/15/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-108B	0.000824	8/21/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-109B	0.000824	8/15/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-102B	0.0008717	8/20/2024	0.00106	Yes	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-107B	0.0008717	8/15/2024	0.00224	Yes	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Copper (mg/L)	MW-102B	0.0108	8/20/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-105B	0.0108	8/19/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-107B	0.0108	8/15/2024	0.00239J	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-108B	0.0108	8/21/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-109B	0.0108	8/15/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-102B	0.00735	8/20/2024	0.00258J	No	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-105B	0.00735	8/19/2024	0.0131	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-107B	0.00735	8/15/2024	0.0113	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-108B	0.00735	8/21/2024	0.0069	No	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-109B	0.00735	8/15/2024	0.032	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-102B	0.0366	8/20/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-105B	0.0366	8/19/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-107B	0.0366	8/15/2024	0.0101J	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-108B	0.0366	8/21/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-109B	0.0366	8/15/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Assessment Monitoring Locations													
Antimony (mg/L)	MW-11	0.0101	8/20/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-15	0.0101	8/14/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2

Deeper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Assessment Monitoring Locations Continued													
Antimony (mg/L)	MW-18	0.0101	8/13/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-19	0.0101	8/15/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-25	0.0101	8/15/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-11	0.00225	8/20/2024	0.001ND	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-15	0.00225	8/14/2024	0.00061J	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-18	0.00225	8/13/2024	0.00347	Yes	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-19	0.00225	8/15/2024	0.000834J	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Arsenic (mg/L)	MW-25	0.00225	8/15/2024	0.00161J	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-11	0.138	8/20/2024	0.0571	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-15	0.138	8/14/2024	0.0414	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-18	0.138	8/13/2024	0.0197	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-19	0.138	8/15/2024	0.0327	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-25	0.138	8/15/2024	0.195	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	MW-11	25.4	8/20/2024	5.2ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	MW-15	25.4	8/14/2024	6.25ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	MW-18	25.4	8/13/2024	5.45ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	MW-19	25.4	8/15/2024	5.2ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	MW-25	25.4	8/15/2024	5.2ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-11	0.000824	8/20/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-15	0.000824	8/14/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-18	0.000824	8/13/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-19	0.000824	8/15/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-25	0.000824	8/15/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-11	0.0008717	8/20/2024	0.00097	Yes	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-15	0.0008717	8/14/2024	0.00515	Yes	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-18	0.0008717	8/13/2024	0.00025ND	No	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-19	0.0008717	8/15/2024	0.00025ND	No	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-25	0.0008717	8/15/2024	0.00025ND	No	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Copper (mg/L)	MW-11	0.0108	8/20/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-15	0.0108	8/14/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-18	0.0108	8/13/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-19	0.0108	8/15/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-25	0.0108	8/15/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-11	0.00735	8/20/2024	0.00441J	No	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-15	0.00735	8/14/2024	0.0136	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-18	0.00735	8/13/2024	0.00643	No	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-19	0.00735	8/15/2024	0.0144	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-25	0.00735	8/15/2024	0.0025ND	No	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-11	0.109	8/20/2024	0.0025ND	No	53	n/a	n/a	96	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-25	0.109	8/15/2024	0.0025ND	No	53	n/a	n/a	96	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-11	0.0366	8/20/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-15	0.0366	8/14/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-18	0.0366	8/13/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-19	0.0366	8/15/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-25	0.0366	8/15/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Corrective Action Monitoring Locations - Assessment Constituents													
Antimony (mg/L)	AW-6	0.0101	8/19/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	CRL-9	0.0101	8/13/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-14	0.0101	8/15/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2

Deeper Bedrock

Interwell Prediction Limit [1]

Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Corrective Action Monitoring Locations - Assessment Constituents Continued													
Antimony (mg/L)	MW-22	0.0101	8/21/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-33	0.0101	8/21/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-36	0.0101	8/21/2024	0.001ND	No	51	n/a	n/a	96	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	AW-6	0.00225	8/19/2024	0.000805J	No	53	n/a	n/a	38	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Barium (mg/L)	AW-6	0.138	8/19/2024	0.174	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	CRL-9	0.138	8/13/2024	0.454	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-14	0.138	8/15/2024	0.736	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-22	0.138	8/21/2024	0.558	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-33	0.138	8/21/2024	0.666	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-36	0.138	8/21/2024	0.594	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	AW-6	25.4	8/19/2024	5ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	CRL-9	25.4	8/13/2024	5.2ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	MW-22	25.4	8/21/2024	4.81ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	MW-33	25.4	8/21/2024	5ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
bis[2-Ethylhexyl]phthalate (ug/L)	MW-36	25.4	8/21/2024	5ND	No	53	n/a	n/a	92	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	AW-6	0.000824	8/19/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	CRL-9	0.000824	8/13/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-14	0.000824	8/15/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-22	0.000824	8/21/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-33	0.000824	8/21/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-36	0.000824	8/21/2024	0.0001ND	No	50	n/a	n/a	98	n/a	n/a	0.0007087	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-14	0.0008717	8/15/2024	0.000543	No	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-33	0.0008717	8/21/2024	0.00139	Yes	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Cobalt (mg/L)	MW-36	0.0008717	8/21/2024	0.0013	Yes	40	-8.333	0.5481	18	Kaplan-Meier	ln(x)	0.0002634	Param Inter 1 of 2
Copper (mg/L)	AW-6	0.0108	8/19/2024	0.00234J	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	CRL-9	0.0108	8/13/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-14	0.0108	8/15/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-22	0.0108	8/21/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-33	0.0108	8/21/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-36	0.0108	8/21/2024	0.0025ND	No	52	n/a	n/a	98	n/a	n/a	0.0006679	NP Inter (NDs) 1 of 2
Nickel (mg/L)	AW-6	0.00735	8/19/2024	0.0286	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	CRL-9	0.00735	8/13/2024	0.0173	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-14	0.00735	8/15/2024	0.0148	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-22	0.00735	8/21/2024	0.0304	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-33	0.00735	8/21/2024	0.00722	No	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-36	0.00735	8/21/2024	0.00749	Yes	40	n/a	n/a	53	n/a	n/a	0.001061	NP Inter (NDs) 1 of 2
Tin (mg/L)	AW-6	0.109	8/19/2024	0.0025ND	No	53	n/a	n/a	96	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Tin (mg/L)	CRL-9	0.109	8/13/2024	0.0025ND	No	53	n/a	n/a	96	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-22	0.109	8/21/2024	0.0025ND	No	53	n/a	n/a	96	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-33	0.109	8/21/2024	0.0025ND	No	53	n/a	n/a	96	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-36	0.109	8/21/2024	0.0025ND	No	53	n/a	n/a	96	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	AW-6	0.0366	8/19/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	CRL-9	0.0366	8/13/2024	0.0139J	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-14	0.0366	8/15/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-22	0.0366	8/21/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-33	0.0366	8/21/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-36	0.0366	8/21/2024	0.01ND	No	53	n/a	n/a	91	n/a	n/a	0.0006476	NP Inter (NDs) 1 of 2

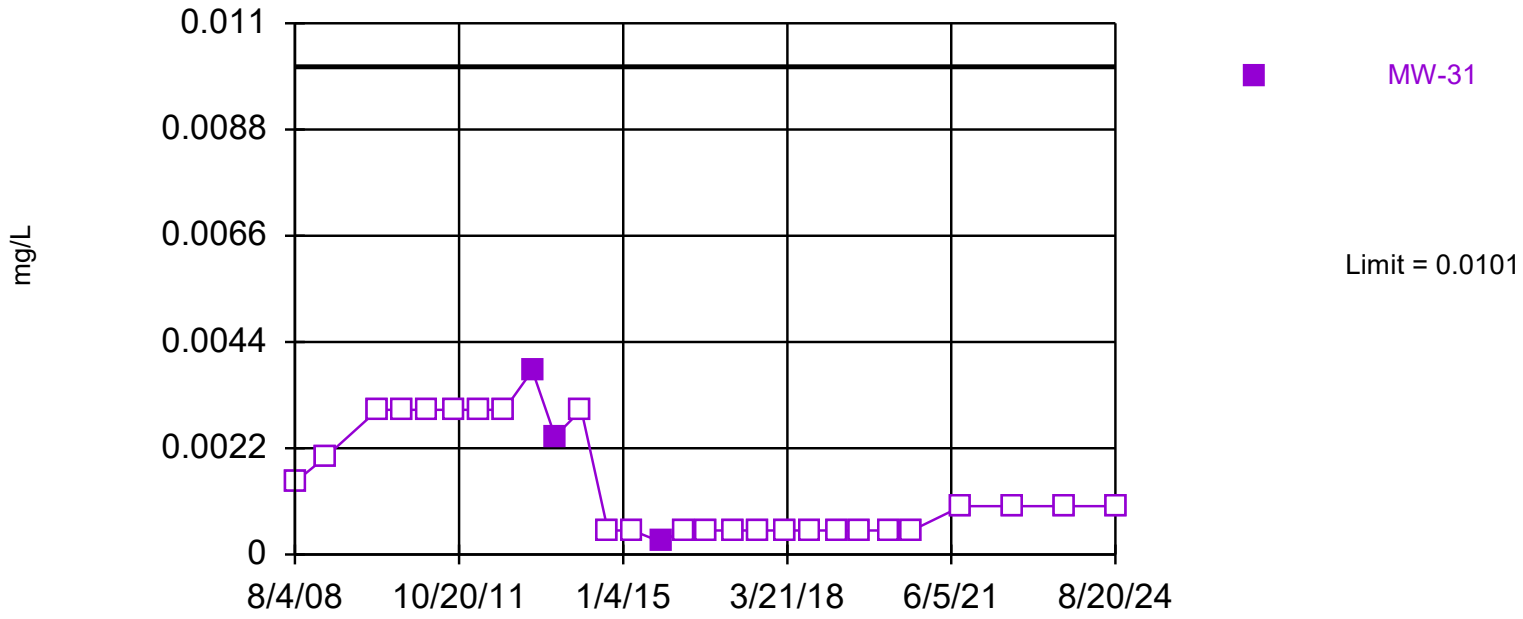
[1] Interwell prediction limit data consists of the detected Appendix I and II parameters in the combined MW-38 and MW-101B data set. Note that background data set adjustments were incorporated in accordance with Section 3.1 of the Fall 2024 Statistical Evaluation memo.

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Detection Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 96.08% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Antimony Analysis Run 10/17/2024 1:40 PM

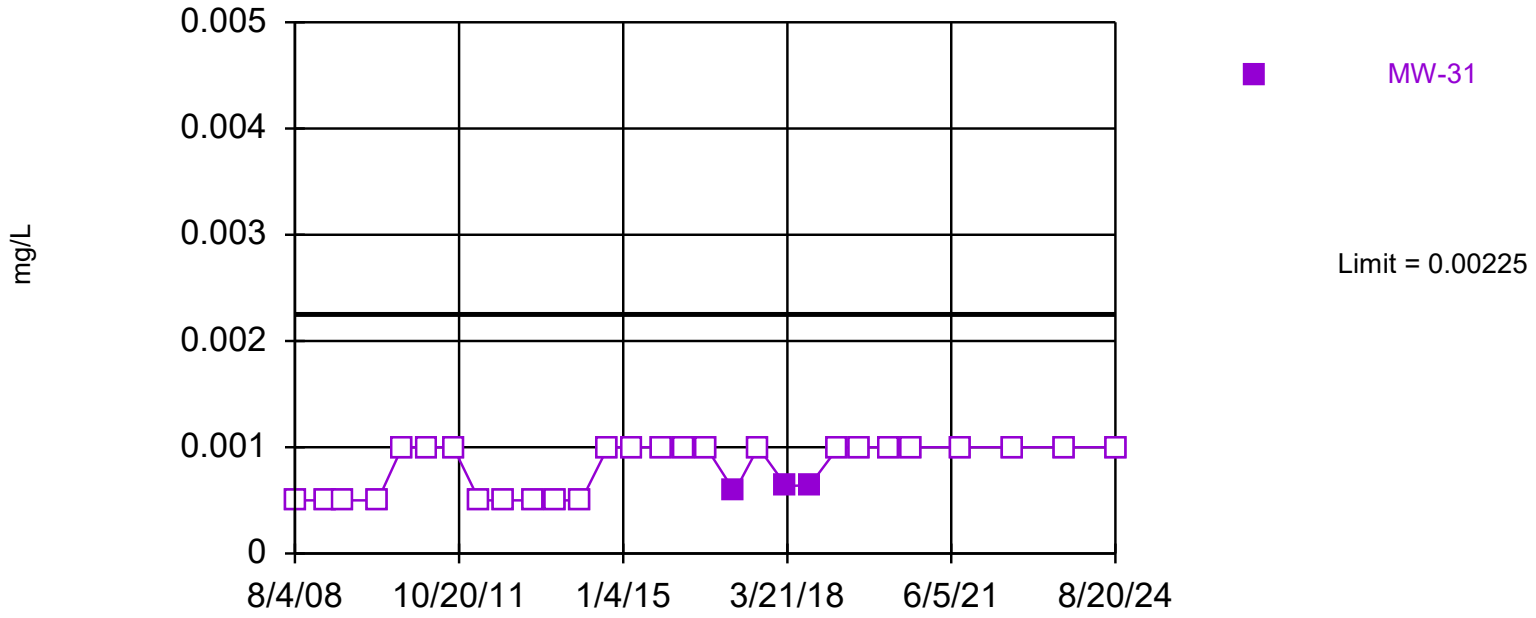
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Detection Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. 37.74% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Arsenic Analysis Run 10/17/2024 1:40 PM

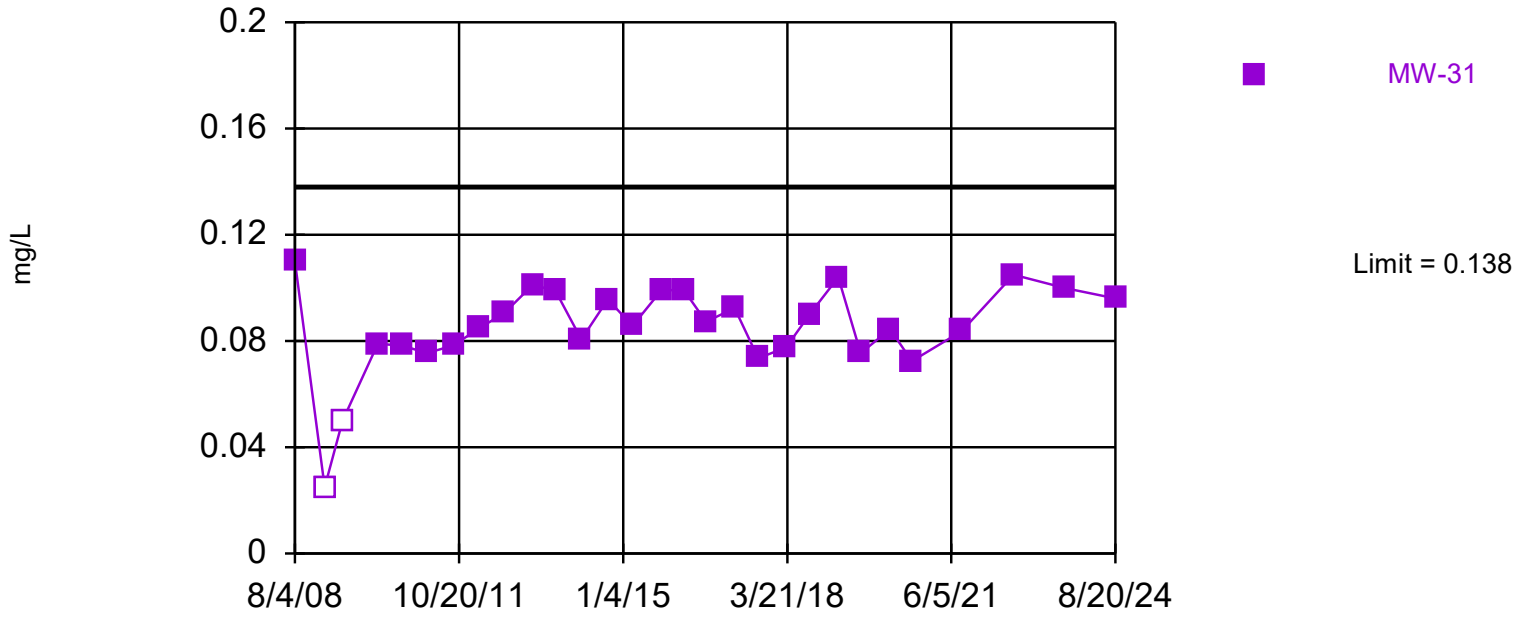
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Detection Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 49 background values. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2).

Constituent: Barium Analysis Run 10/17/2024 1:40 PM

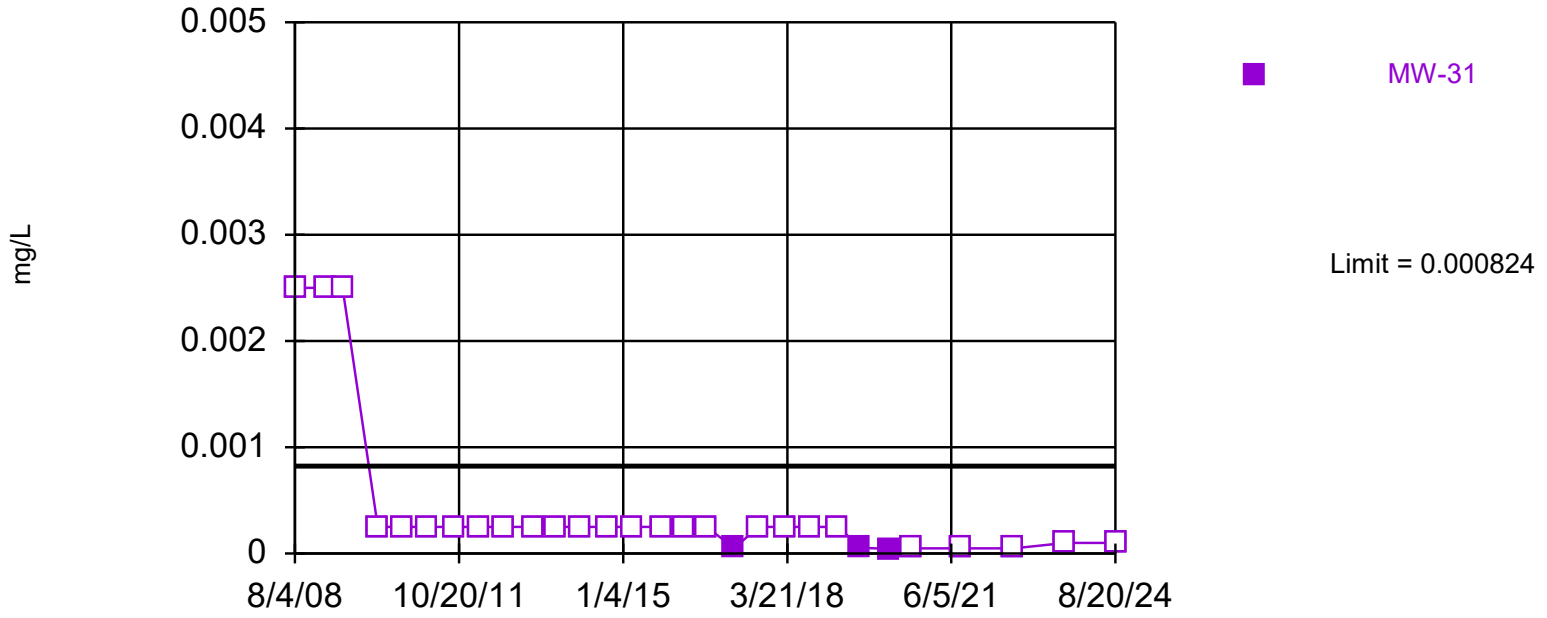
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Detection Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 50 background values. 98% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2).

Constituent: Cadmium Analysis Run 10/17/2024 1:40 PM

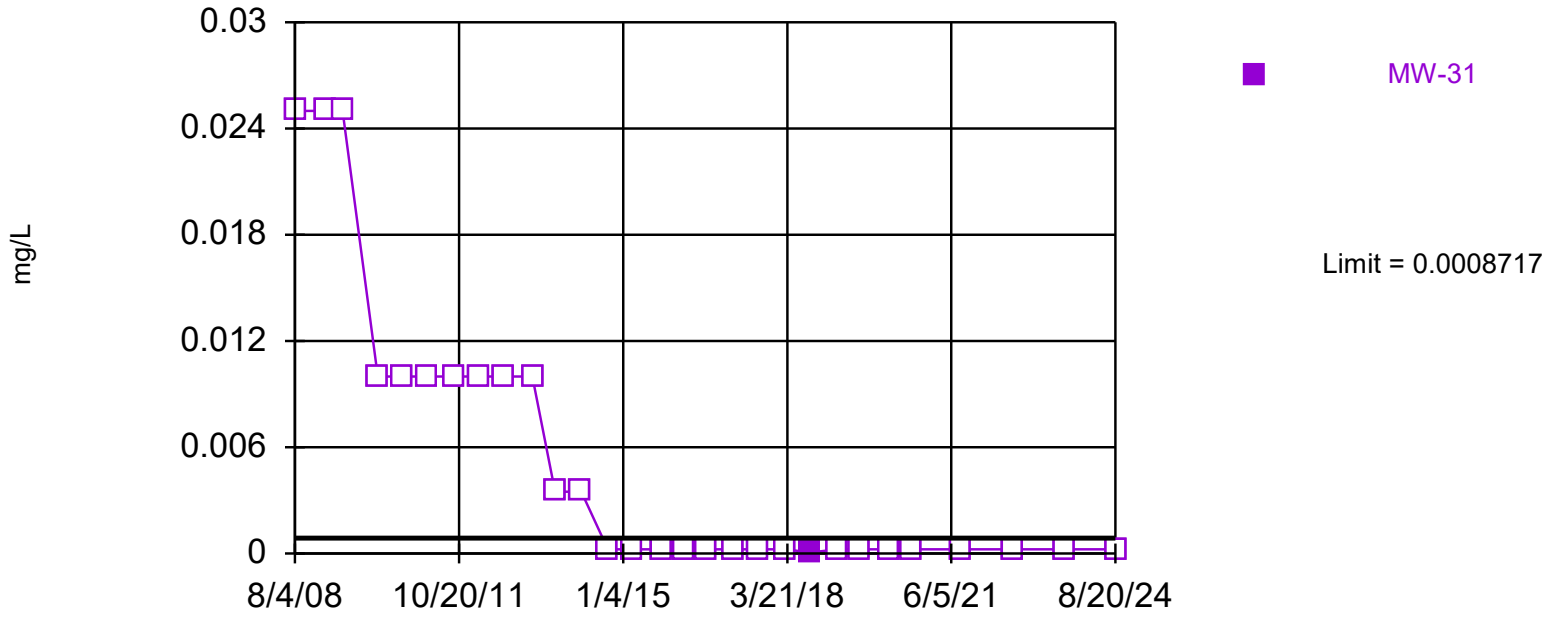
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Detection Monitoring

Interwell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-8.333, Std. Dev.=0.5481, n=40, 17.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9532, critical = 0.919. Kappa = 2.35 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Cobalt Analysis Run 10/17/2024 1:40 PM

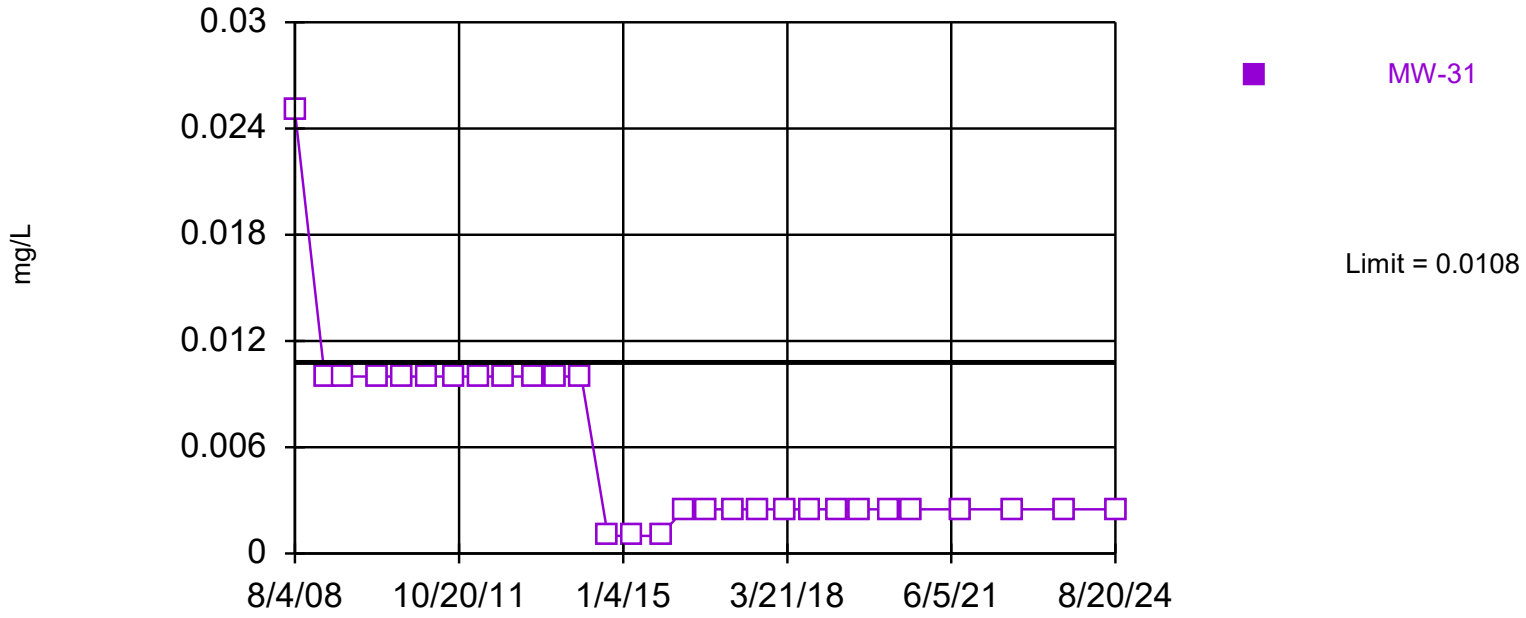
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Detection Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 98.08% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2). .

Constituent: Copper Analysis Run 10/17/2024 1:40 PM

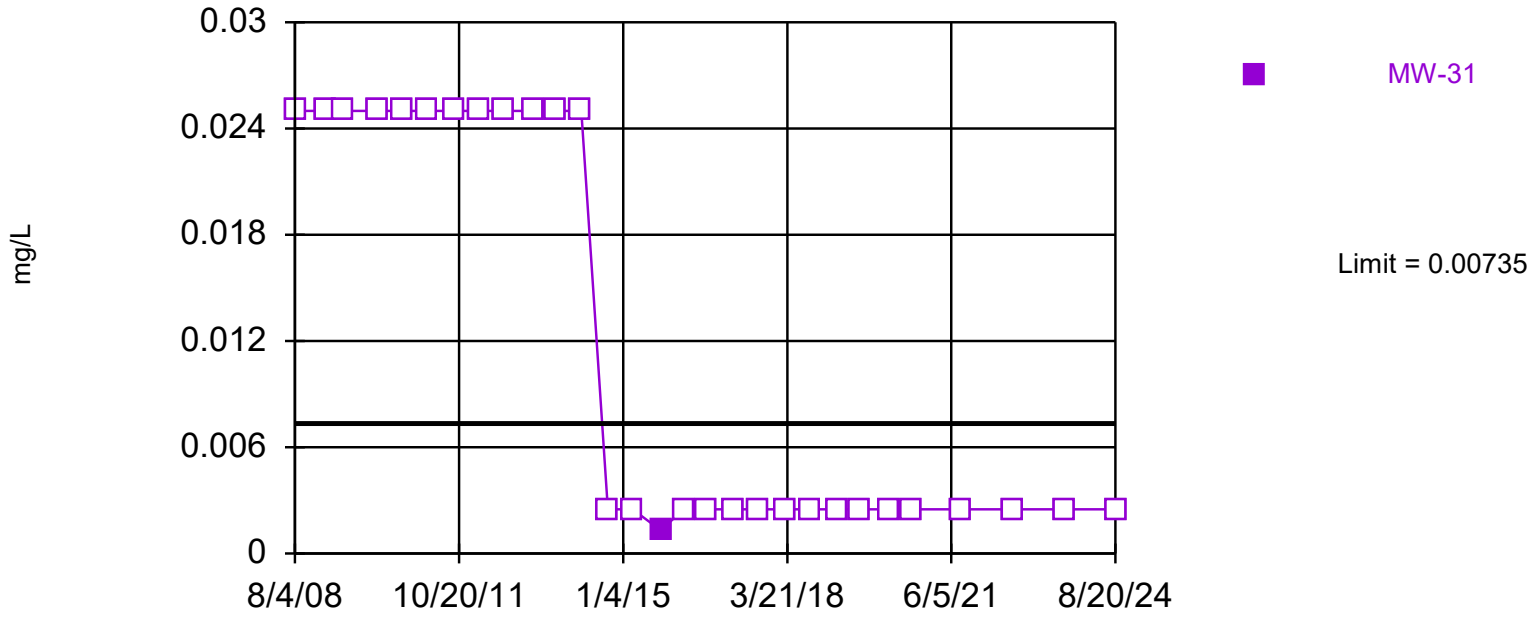
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Detection Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 52.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

Constituent: Nickel Analysis Run 10/17/2024 1:40 PM

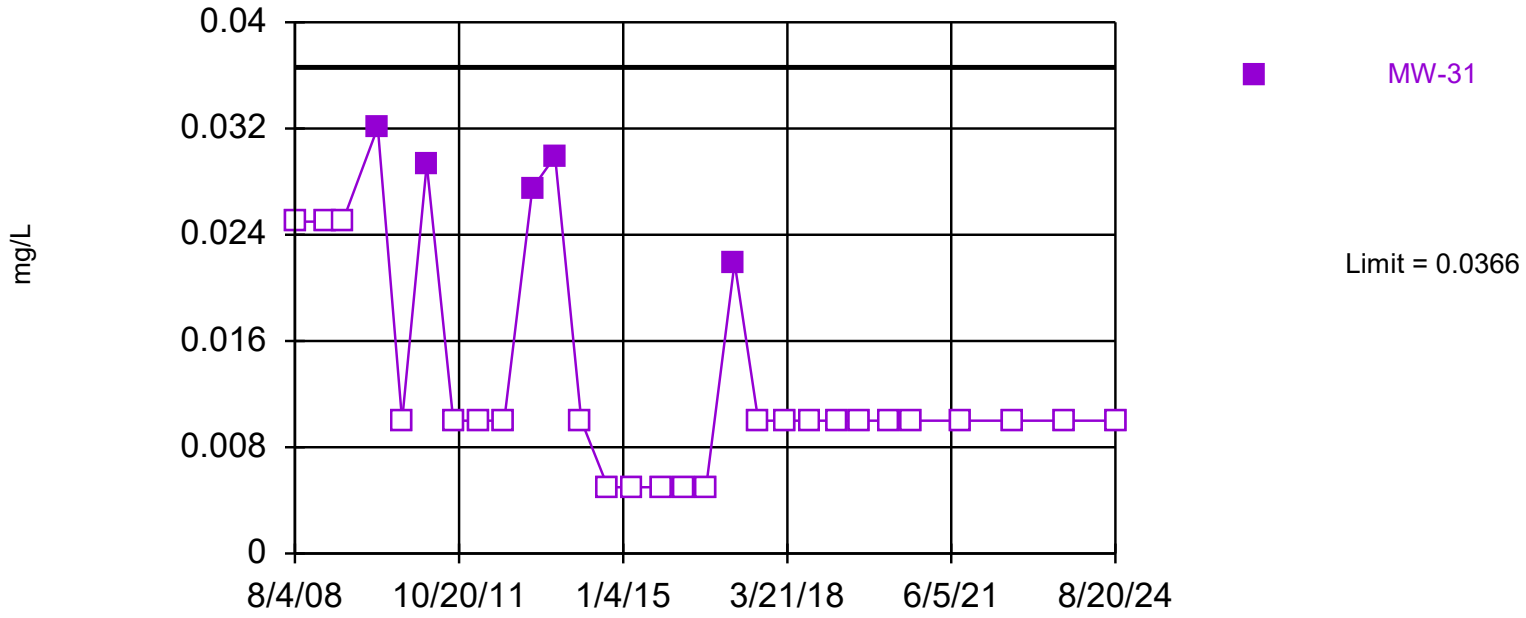
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Detection Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 90.57% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

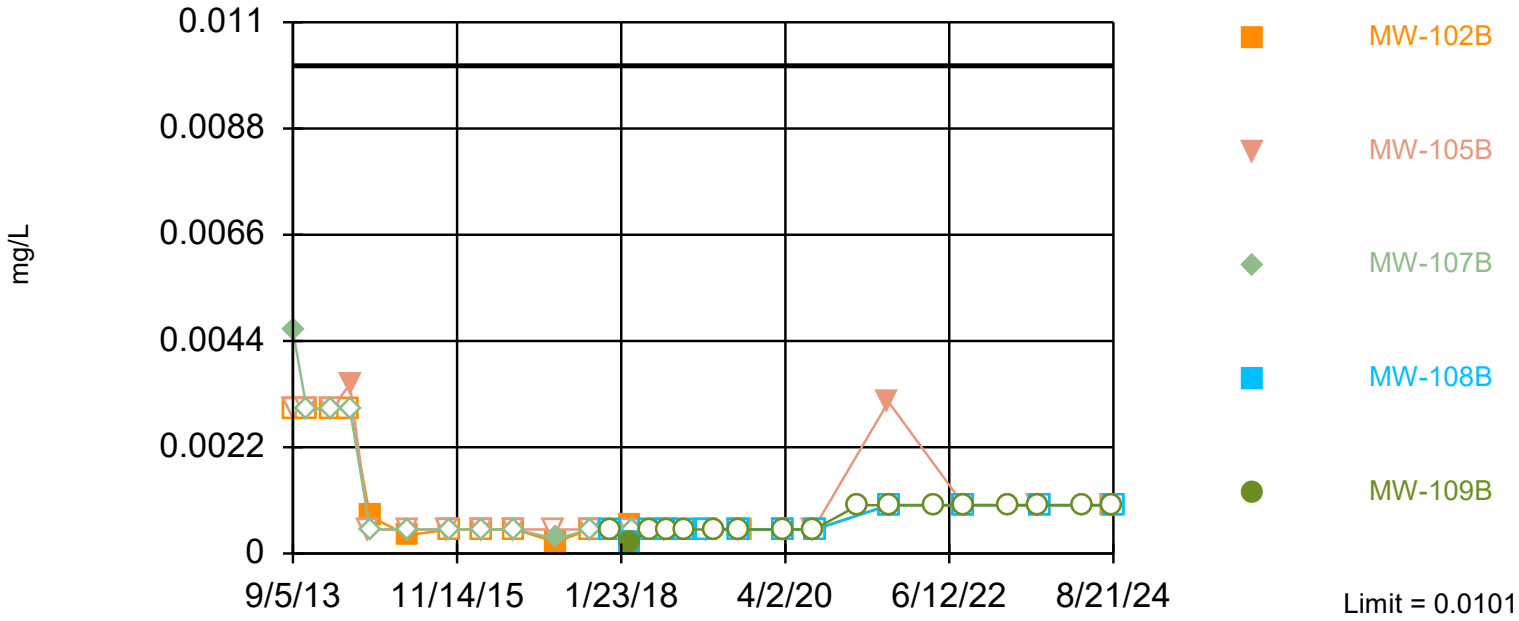
Constituent: Zinc Analysis Run 10/17/2024 1:40 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring
Interwell Non-parametric - Assessment Constituents



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 96.08% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Antimony Analysis Run 10/17/2024 2:36 PM

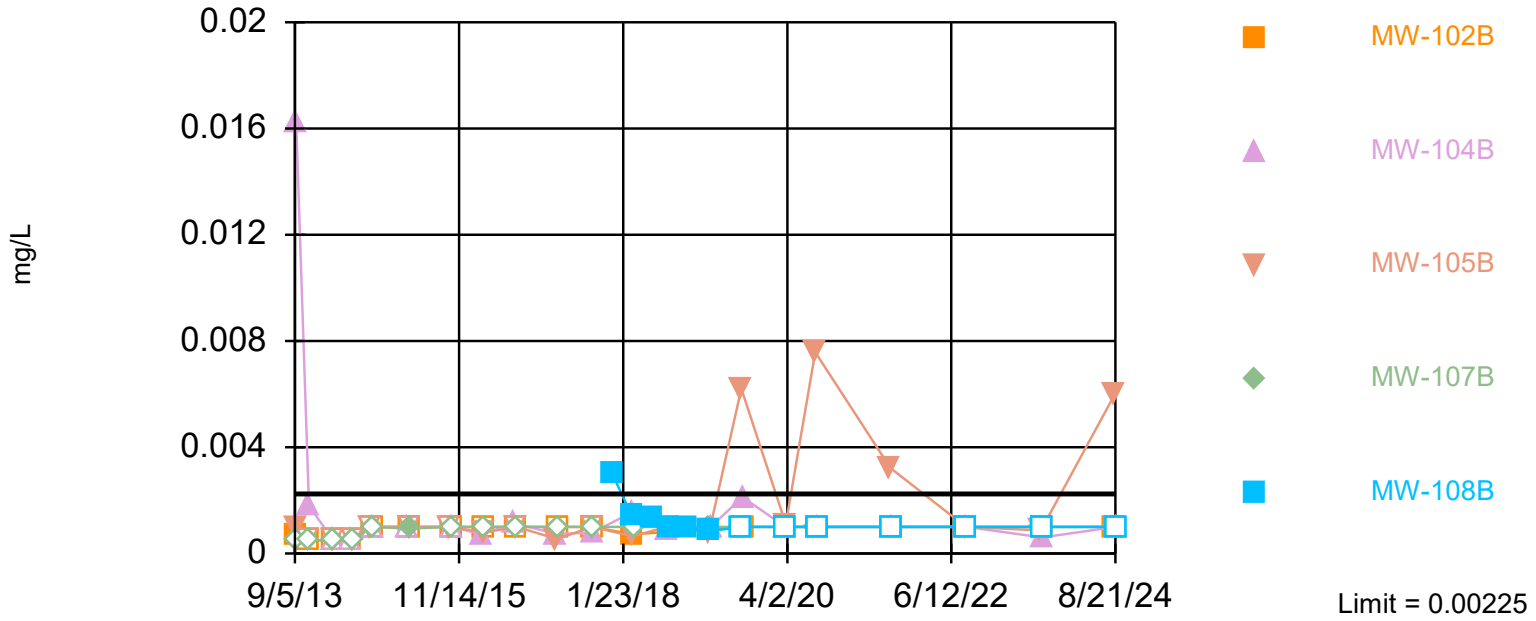
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-105B

Prediction Limit - Delineation Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. 37.74% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

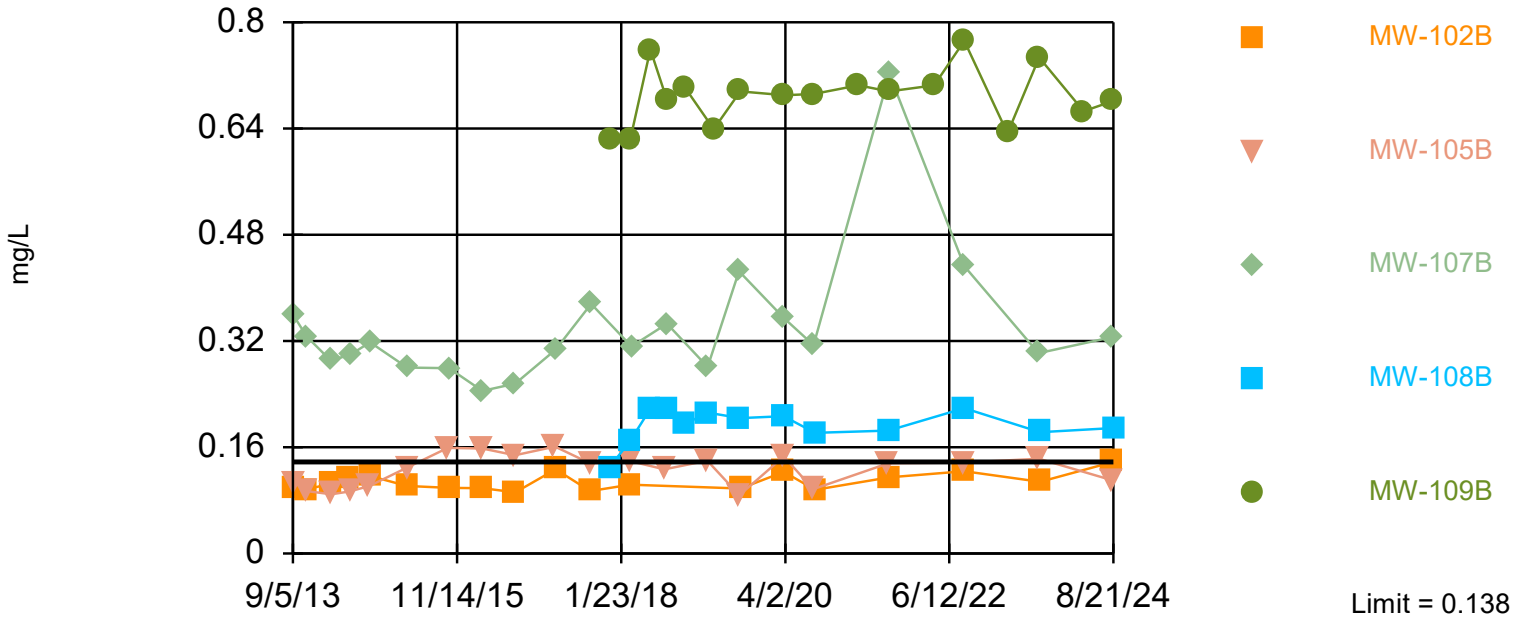
Constituent: Arsenic Analysis Run 10/17/2024 2:36 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Exceeds Limit: MW-107B, MW-108B, MW-109B

Prediction Limit - Delineation Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 49 background values. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2).

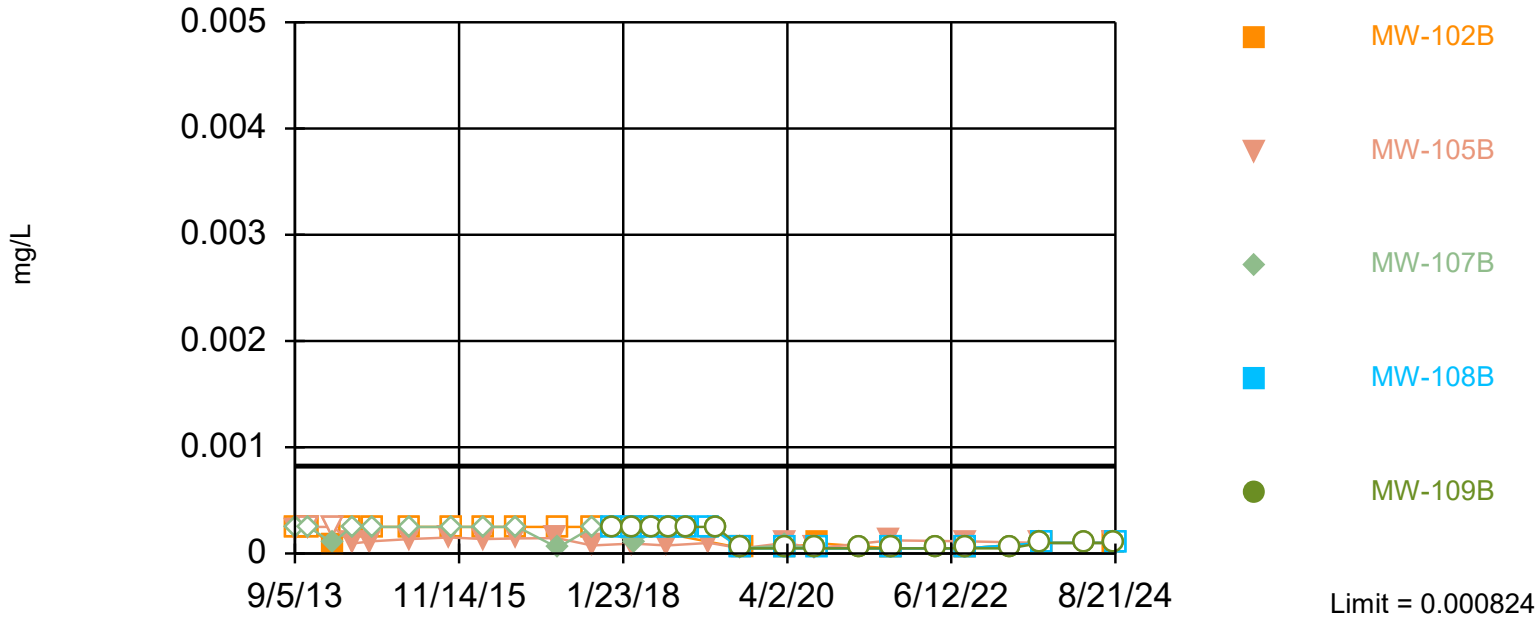
Constituent: Barium Analysis Run 10/17/2024 2:36 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring
Interwell Non-parametric - Assessment Constituents



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 50 background values. 98% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2).

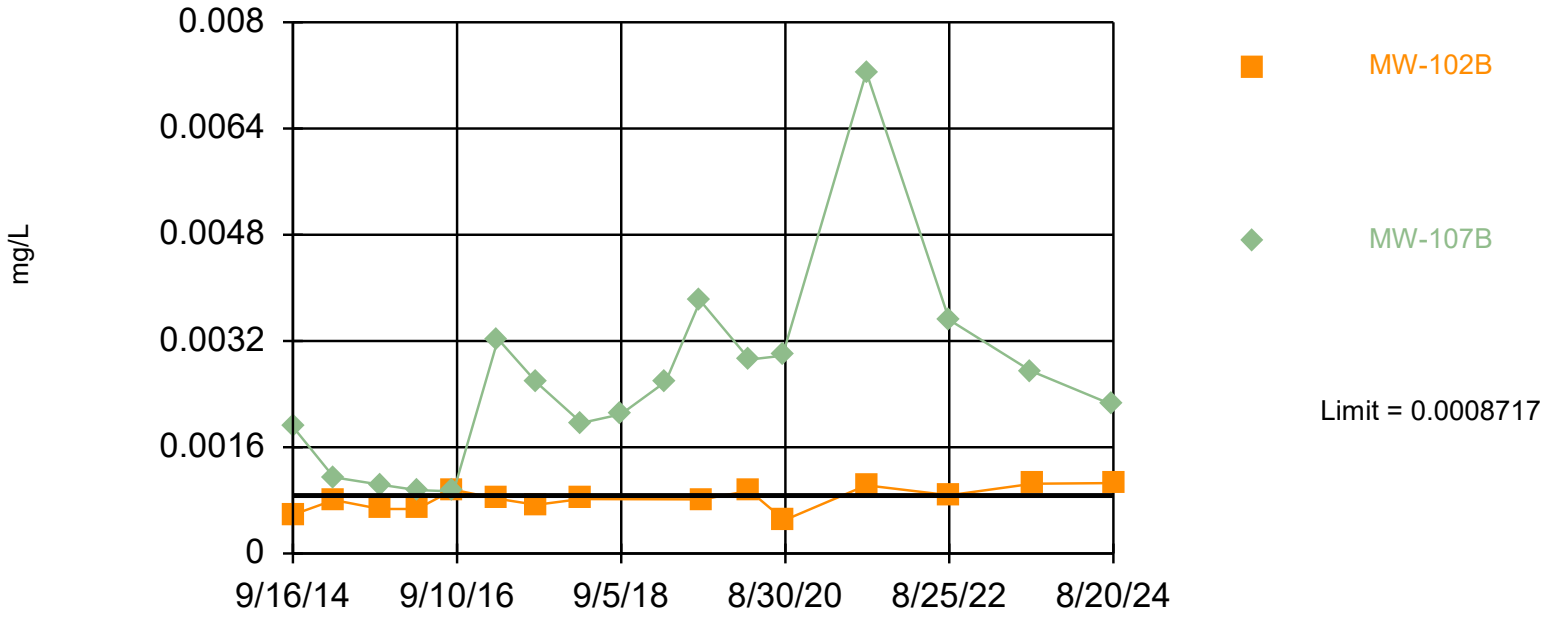
Constituent: Cadmium Analysis Run 10/17/2024 2:36 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Exceeds Limit: MW-102B, MW-107B

Prediction Limit - Delineation Monitoring - Assessment Constituents

Interwell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-8.333, Std. Dev.=0.5481, n=40, 17.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9532, critical = 0.919. Kappa = 2.35 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

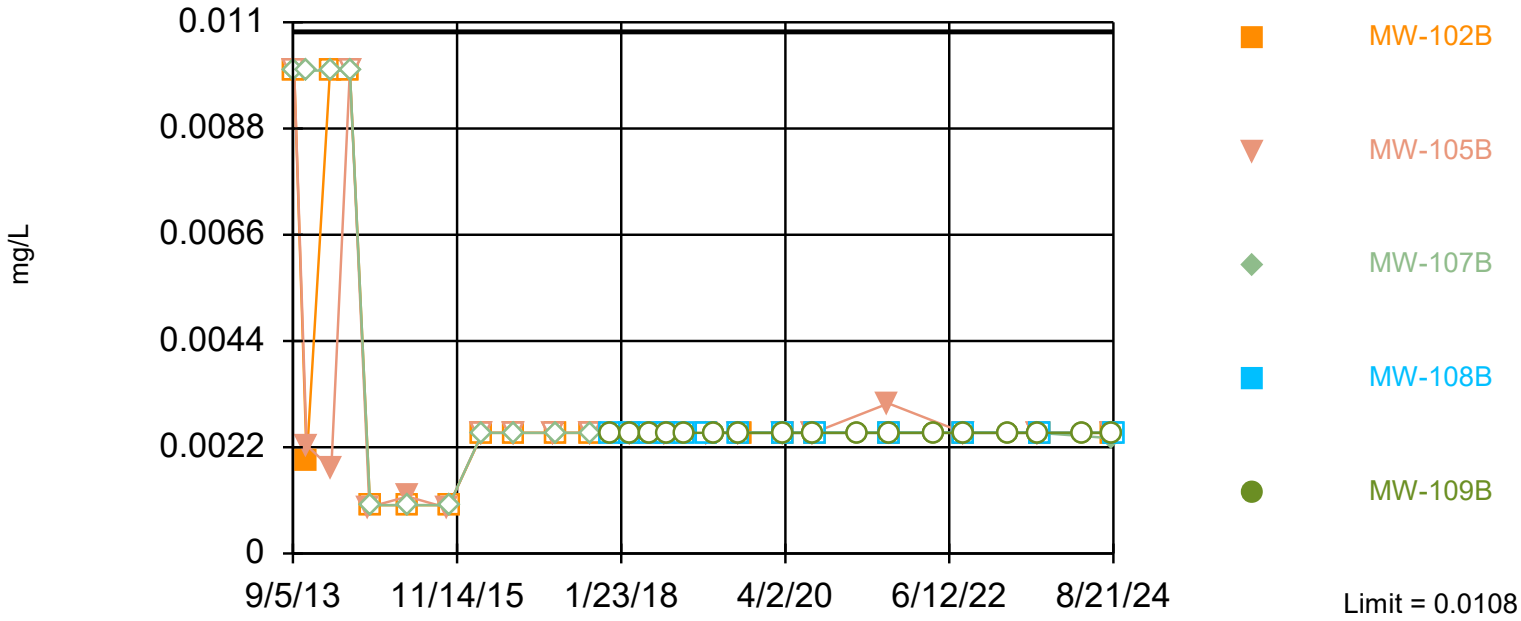
Constituent: Cobalt Analysis Run 10/17/2024 2:36 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring
Interwell Non-parametric - Assessment Constituents



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 98.08% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Copper Analysis Run 10/17/2024 2:36 PM

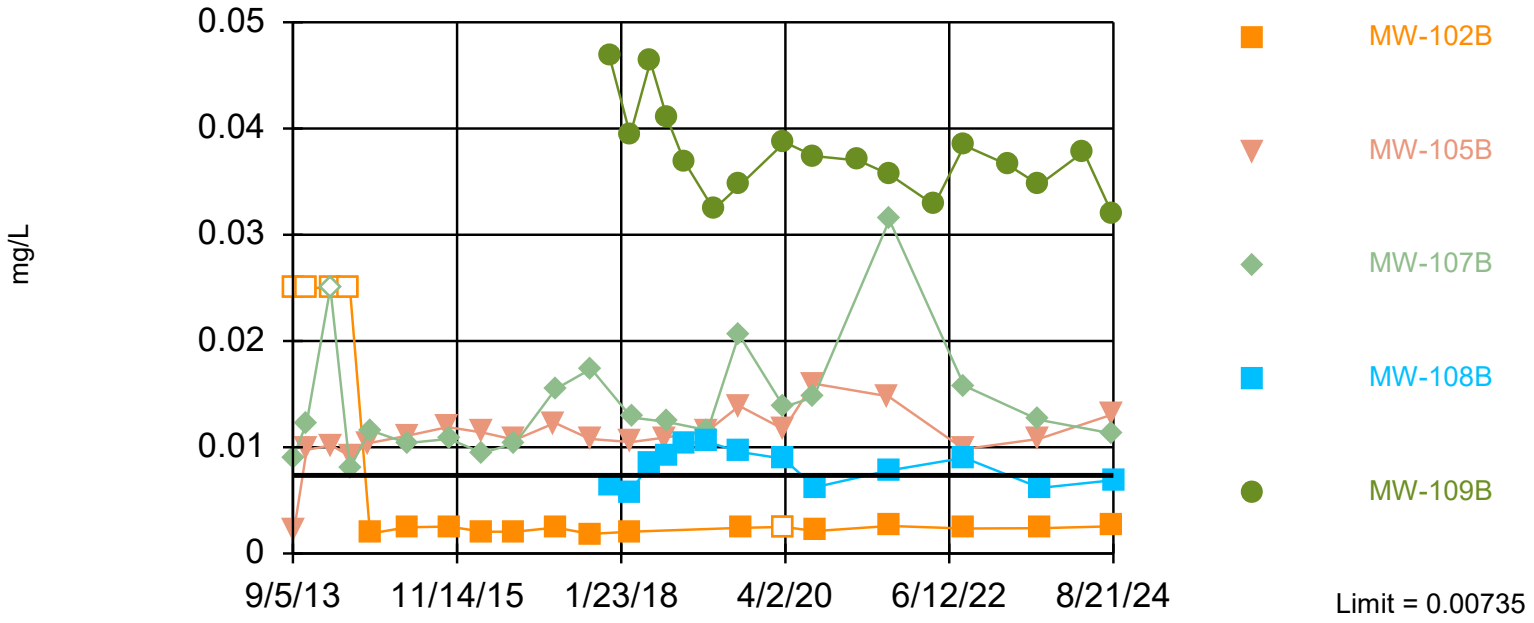
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-105B, MW-107B, MW-109B

Prediction Limit - Delineation Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 52.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

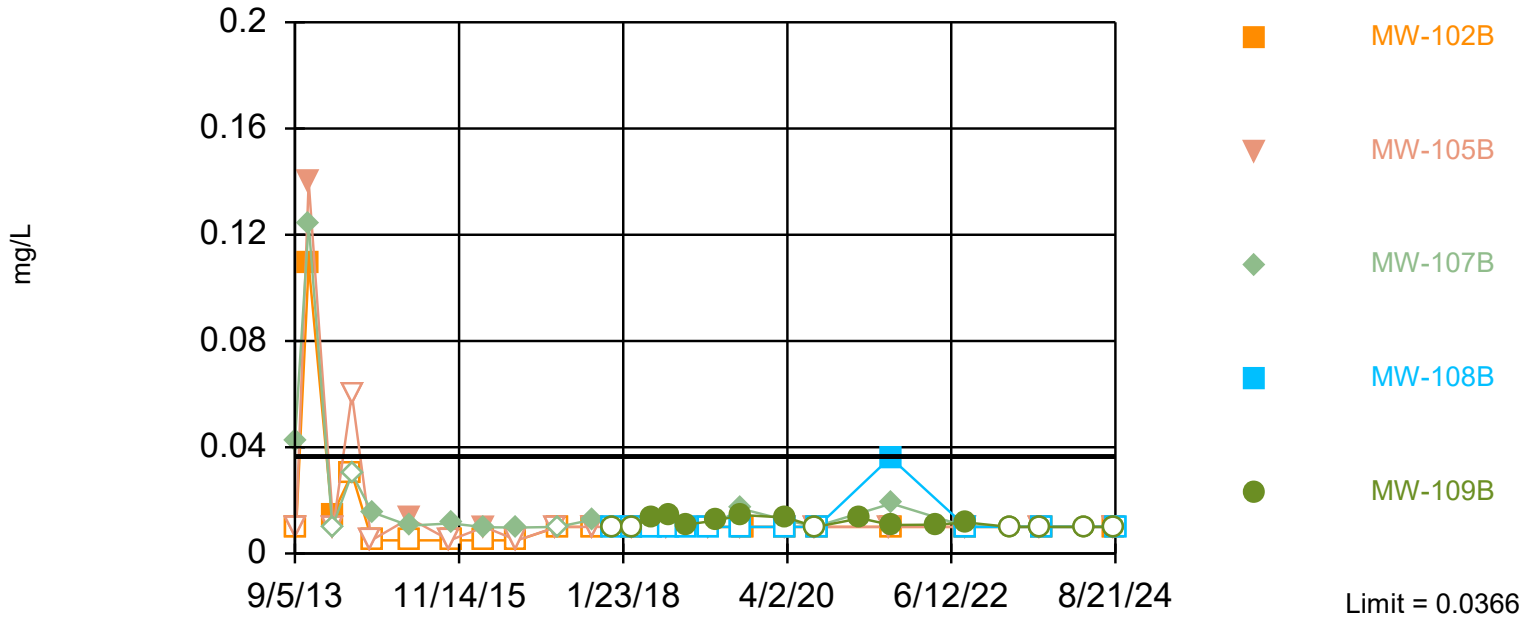
Constituent: Nickel Analysis Run 10/17/2024 2:36 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Delineation Monitoring
Interwell Non-parametric - Assessment Constituents



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 90.57% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Zinc Analysis Run 10/17/2024 2:36 PM

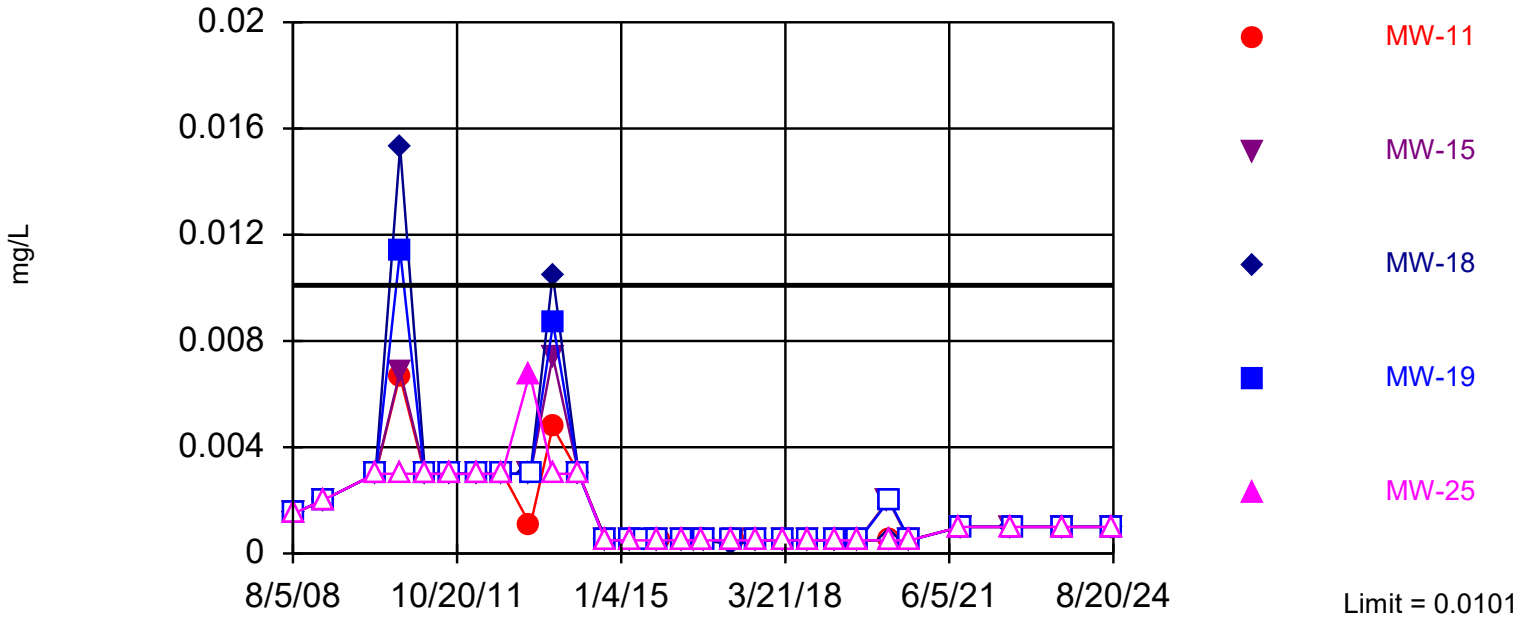
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 96.08% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Antimony Analysis Run 10/17/2024 2:01 PM

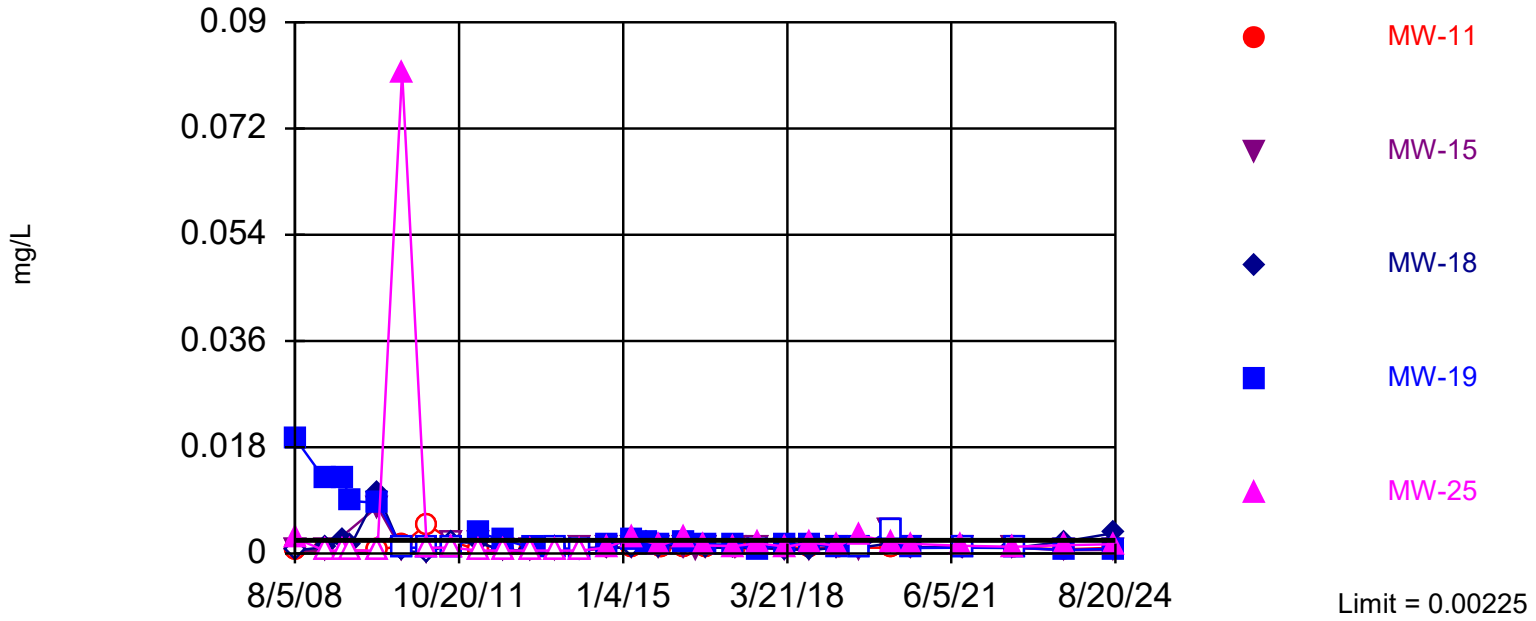
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-18

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. 37.74% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Arsenic Analysis Run 10/17/2024 2:01 PM

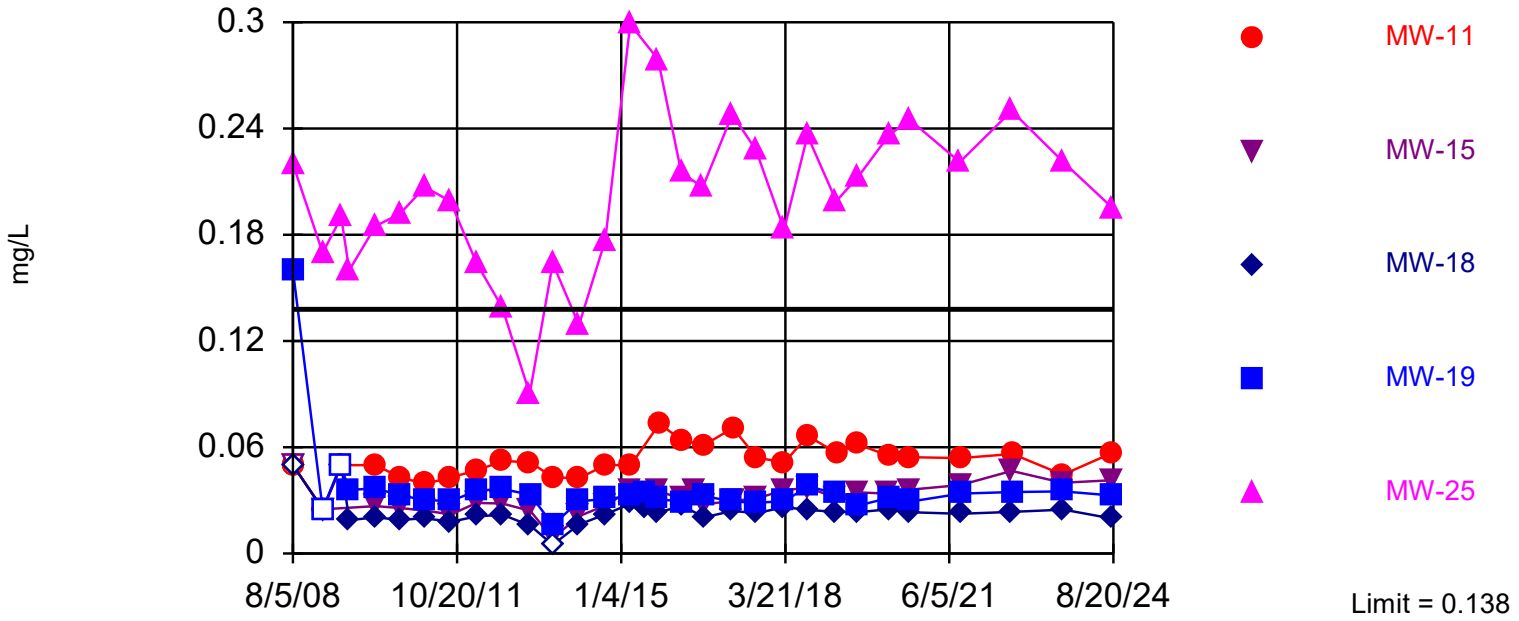
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-25

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 49 background values. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2).

Constituent: Barium Analysis Run 10/17/2024 2:01 PM

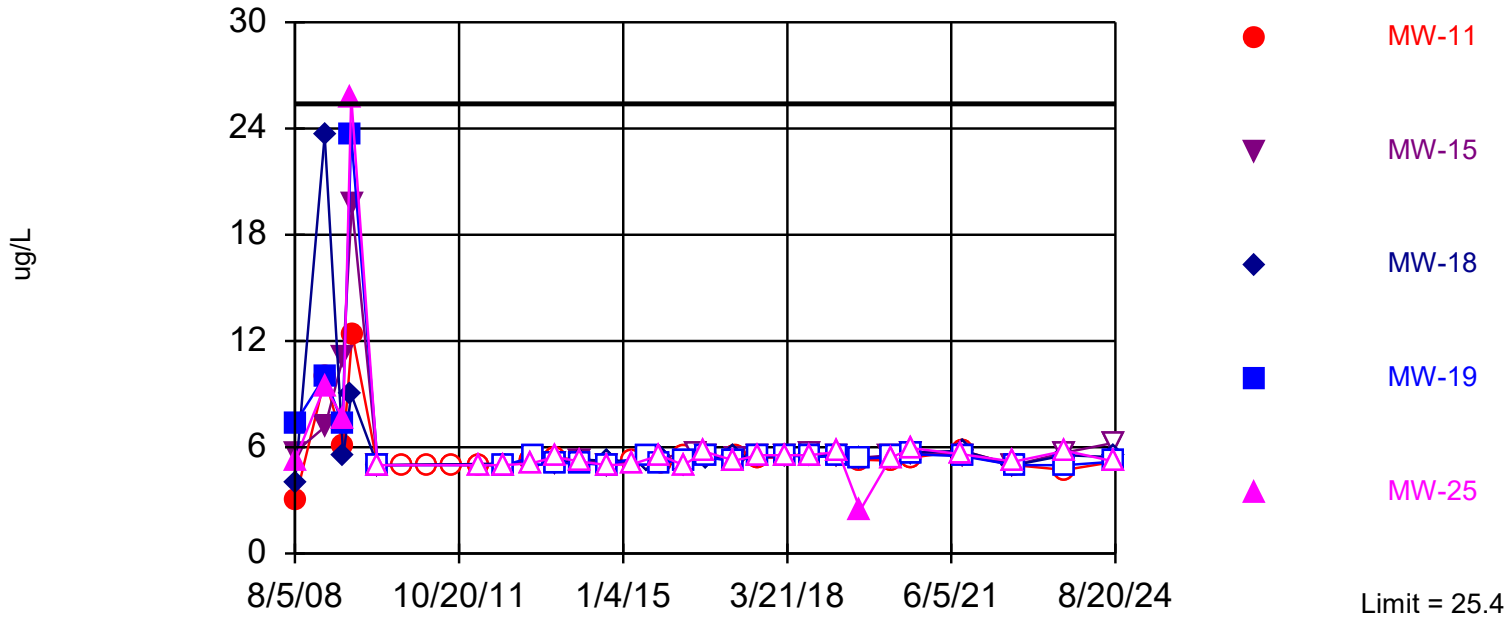
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 92.45% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: bis[2-Ethylhexyl]phthalate Analysis Run 10/17/2024 2:01 PM

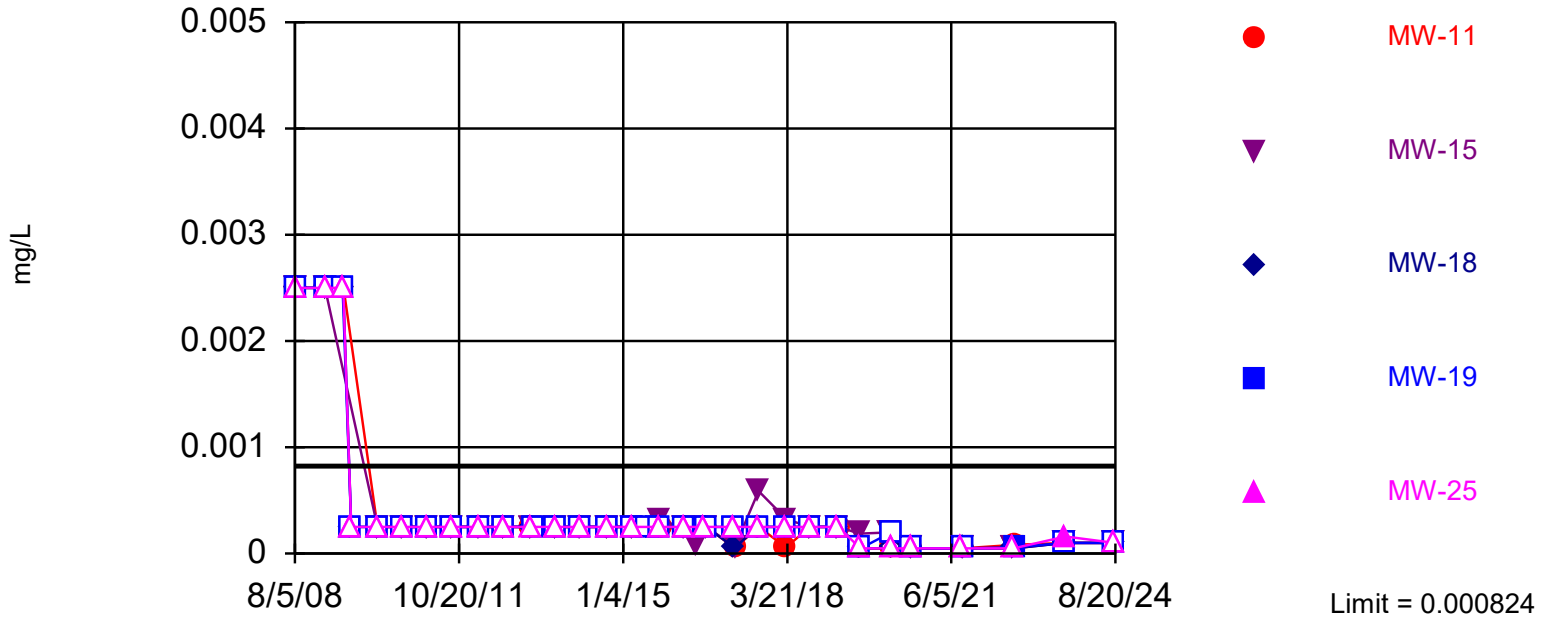
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 50 background values. 98% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2).

Constituent: Cadmium Analysis Run 10/17/2024 2:01 PM

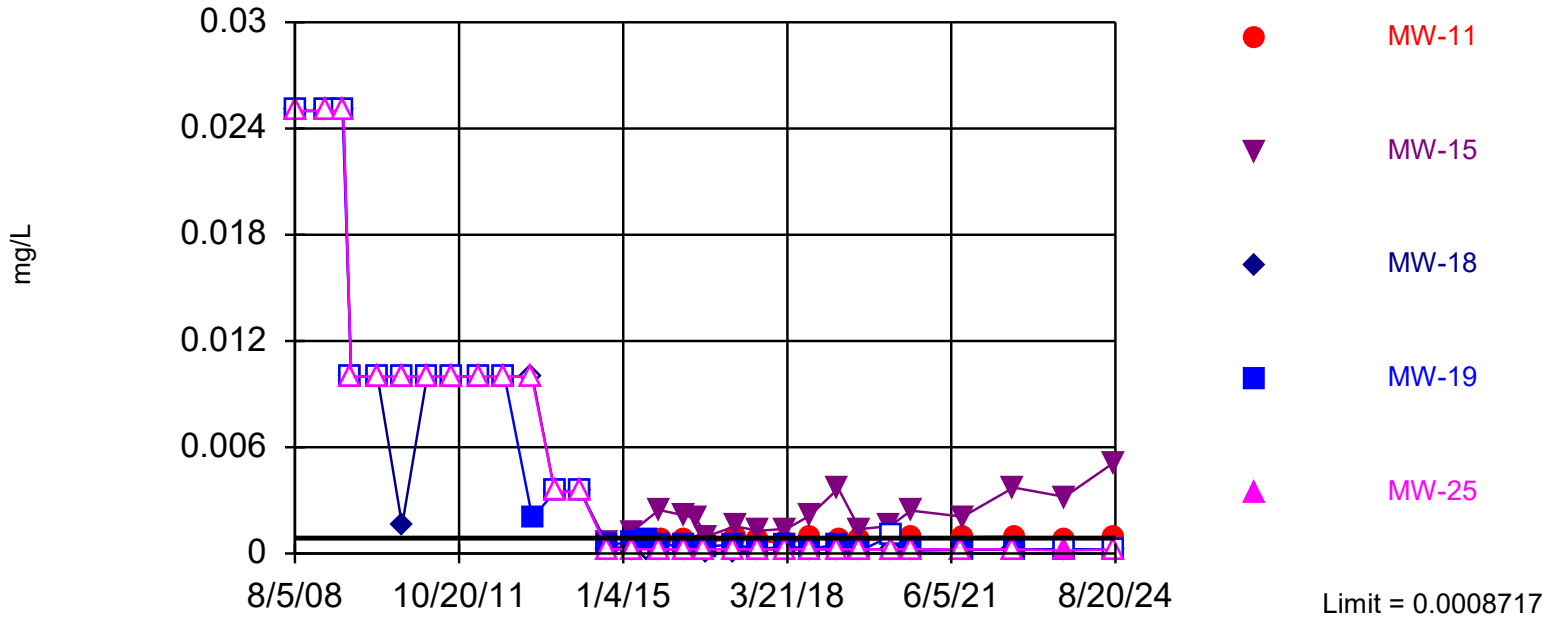
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-15

Prediction Limit - Assessment Monitoring

Interwell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-8.333, Std. Dev.=0.5481, n=40, 17.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9532, critical = 0.919. Kappa = 2.35 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Cobalt Analysis Run 10/17/2024 2:01 PM

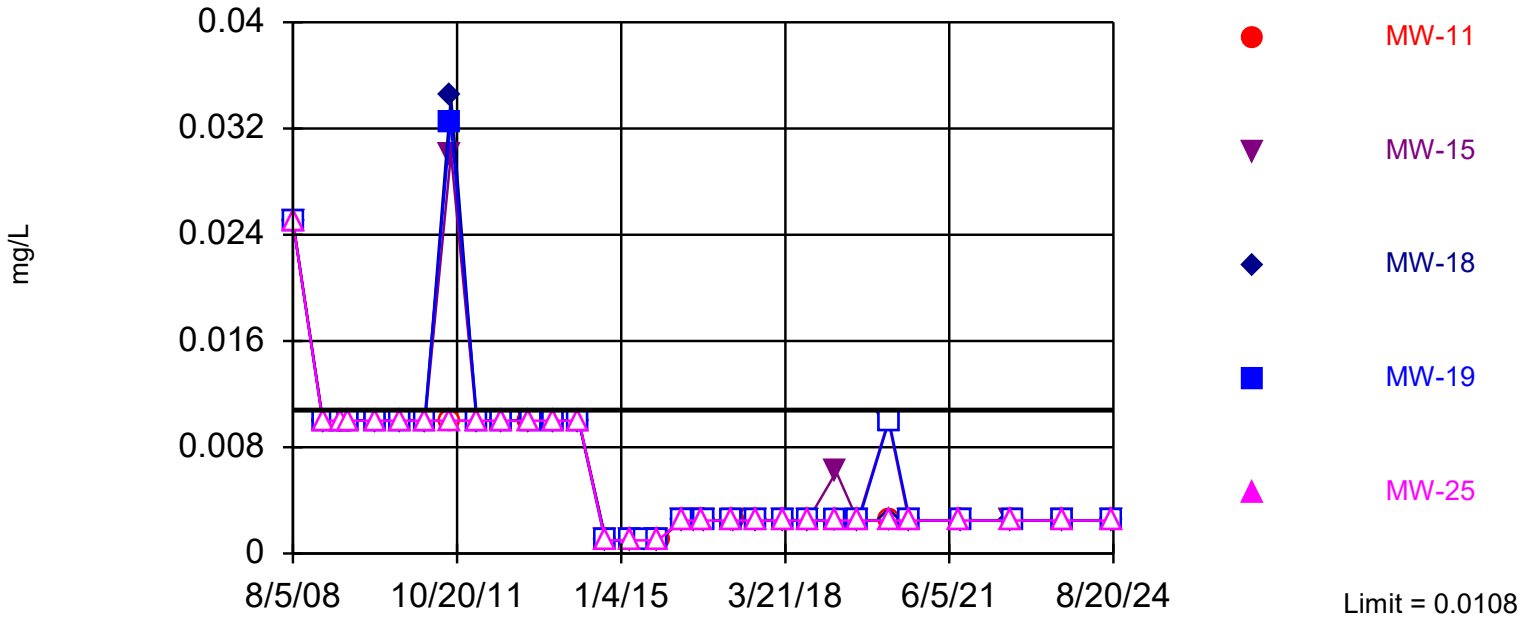
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 98.08% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

Constituent: Copper Analysis Run 10/17/2024 2:02 PM

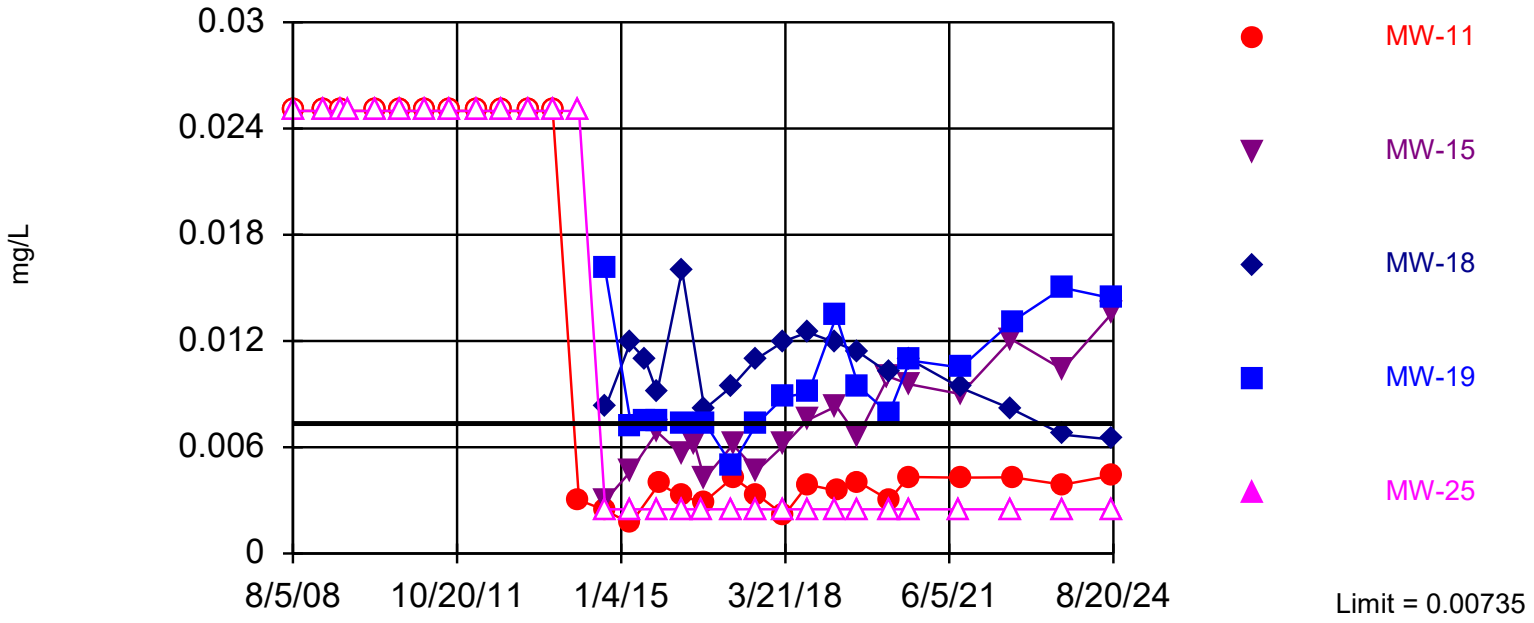
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: MW-15, MW-19

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 52.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

Constituent: Nickel Analysis Run 10/17/2024 2:02 PM

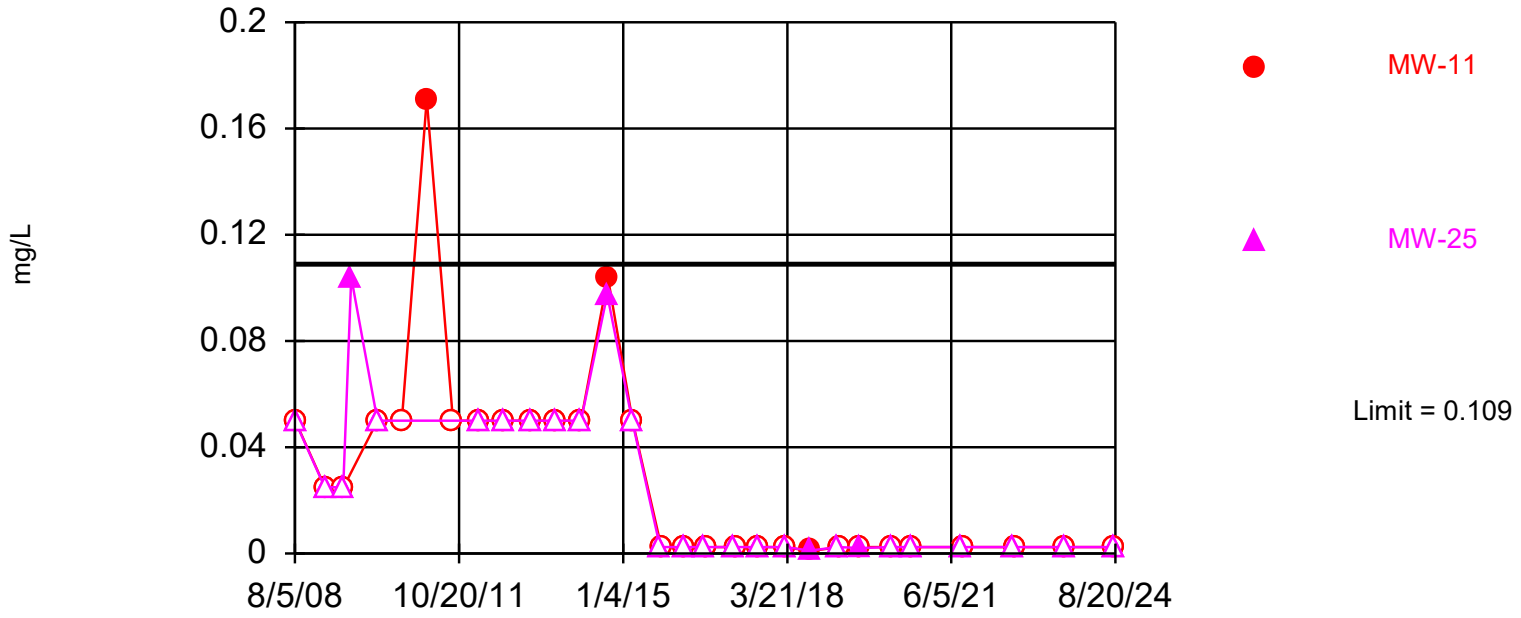
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 96.23% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Tin Analysis Run 10/17/2024 2:02 PM

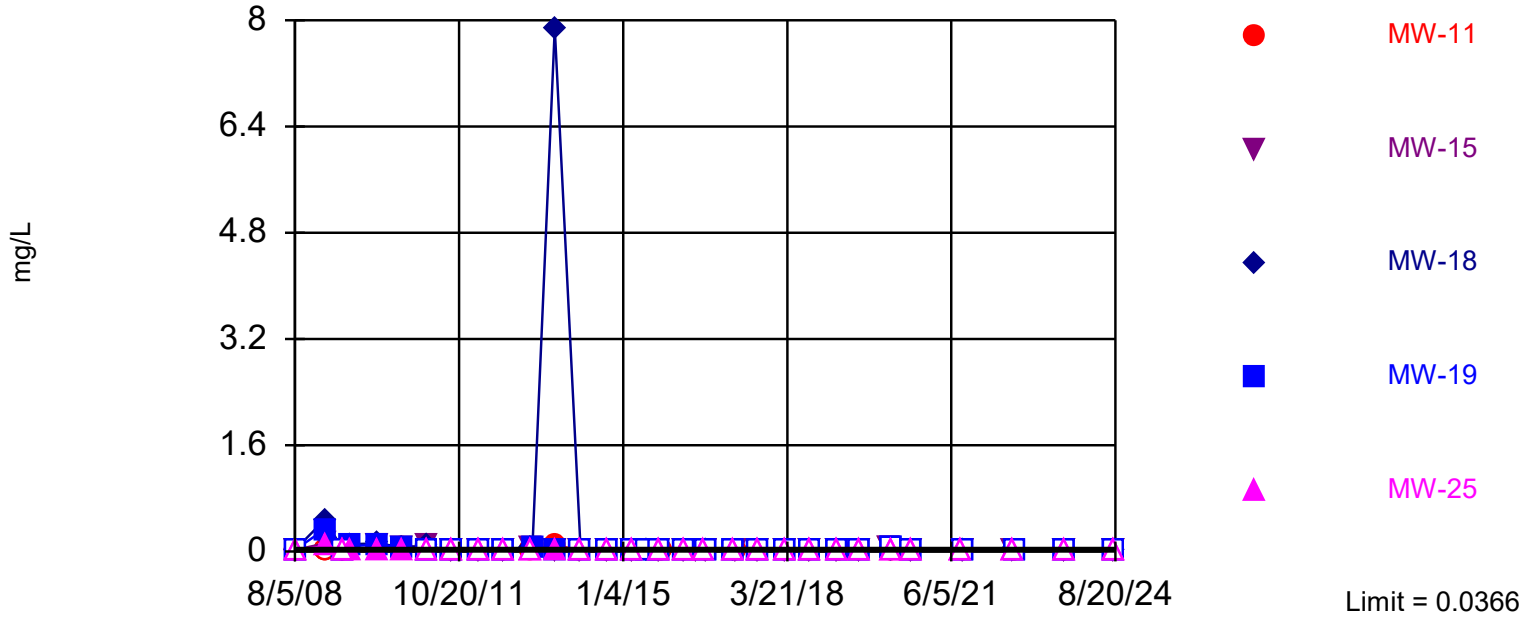
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Assessment Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 90.57% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Zinc Analysis Run 10/17/2024 2:02 PM

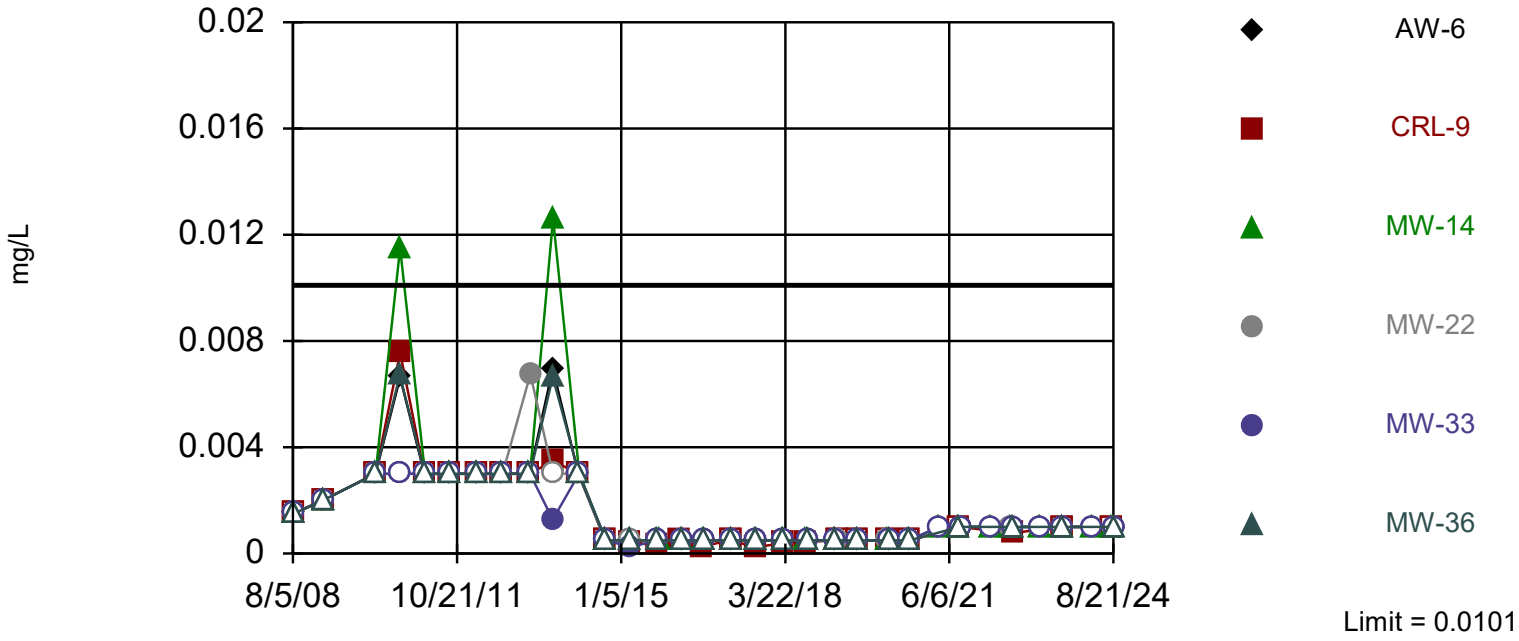
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 96.08% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2).

Constituent: Antimony Analysis Run 10/17/2024 2:19 PM

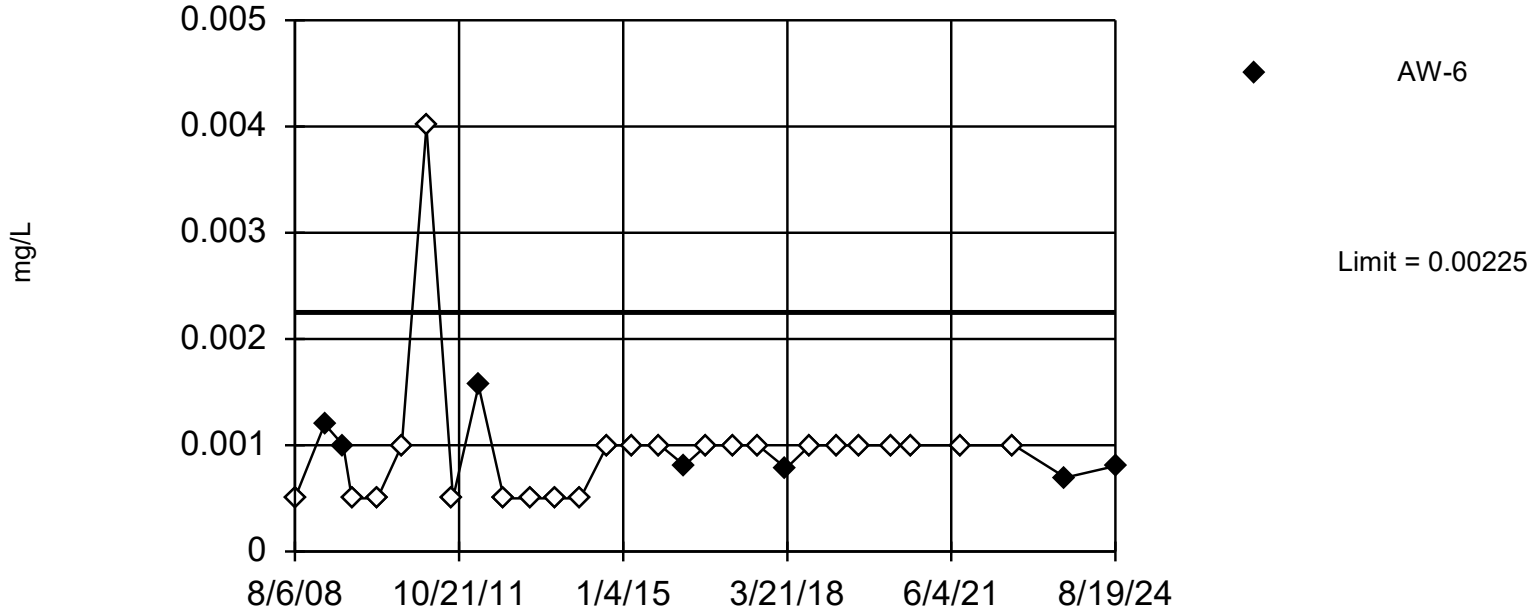
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. 37.74% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Arsenic Analysis Run 10/17/2024 2:19 PM

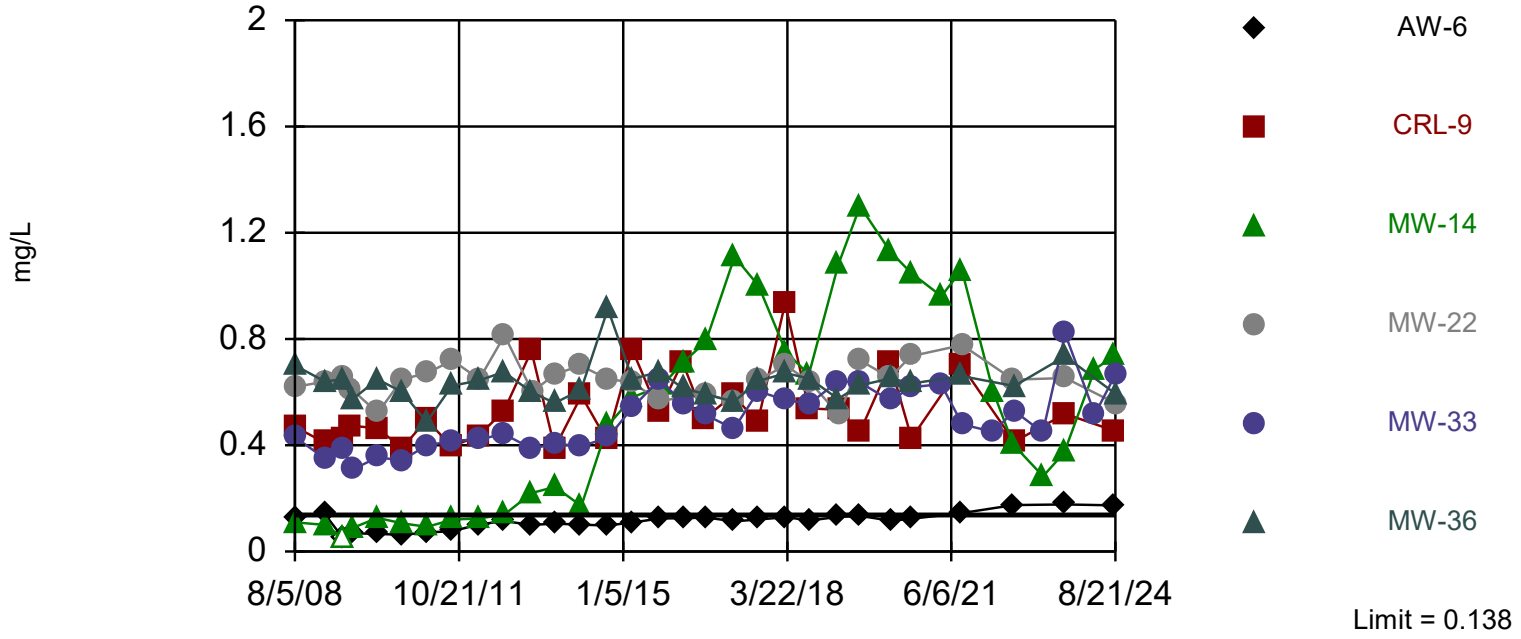
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Exceeds Limit: AW-6, CRL-9, MW-14, MW-22, MW-33, MW-36

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 49 background values. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2).

Constituent: Barium Analysis Run 10/17/2024 2:19 PM

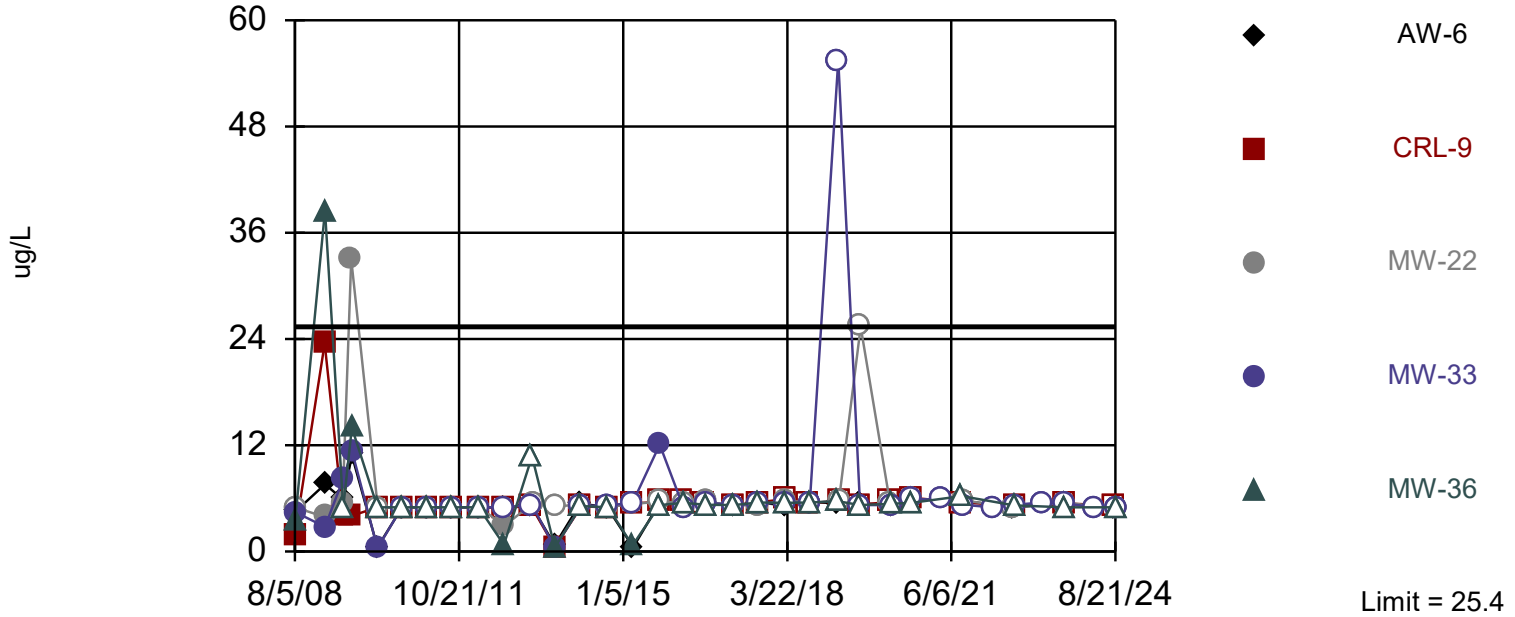
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 92.45% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: bis[2-Ethylhexyl]phthalate Analysis Run 10/17/2024 2:19 PM

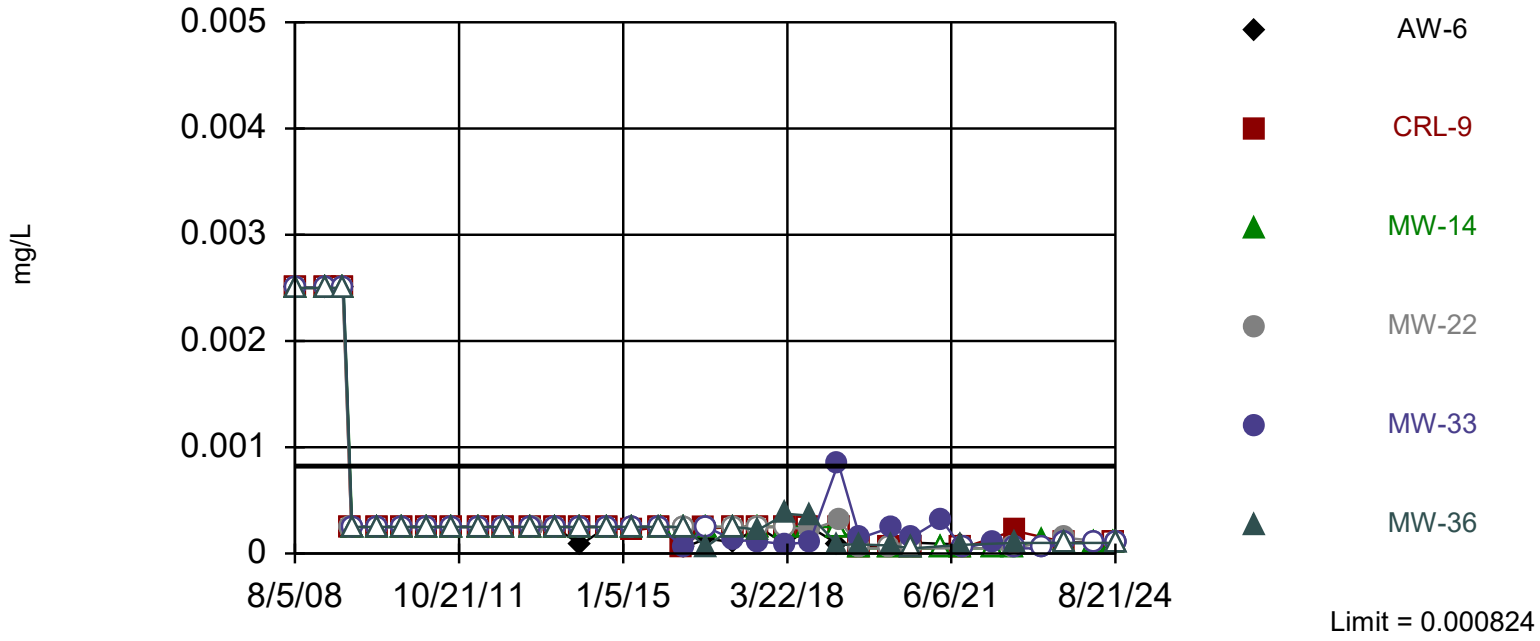
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 50 background values. 98% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2).

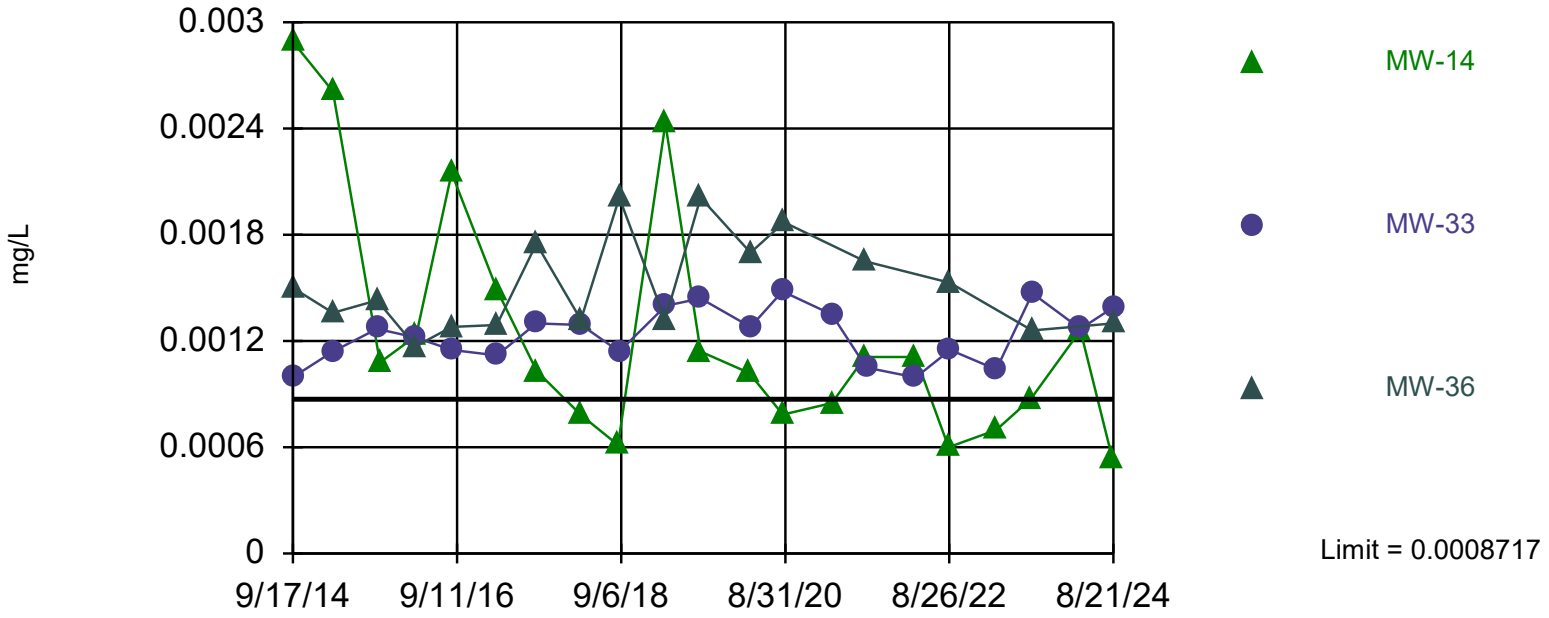
Constituent: Cadmium Analysis Run 10/17/2024 2:19 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Exceeds Limit: MW-33, MW-36

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-8.333, Std. Dev.=0.5481, n=40, 17.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9532, critical = 0.919. Kappa = 2.35 (c=10, w=40, 1 of 2, event alpha = 0.1). Report alpha = 0.01048. Individual comparison alpha = 0.0002634.

Constituent: Cobalt Analysis Run 10/17/2024 2:19 PM

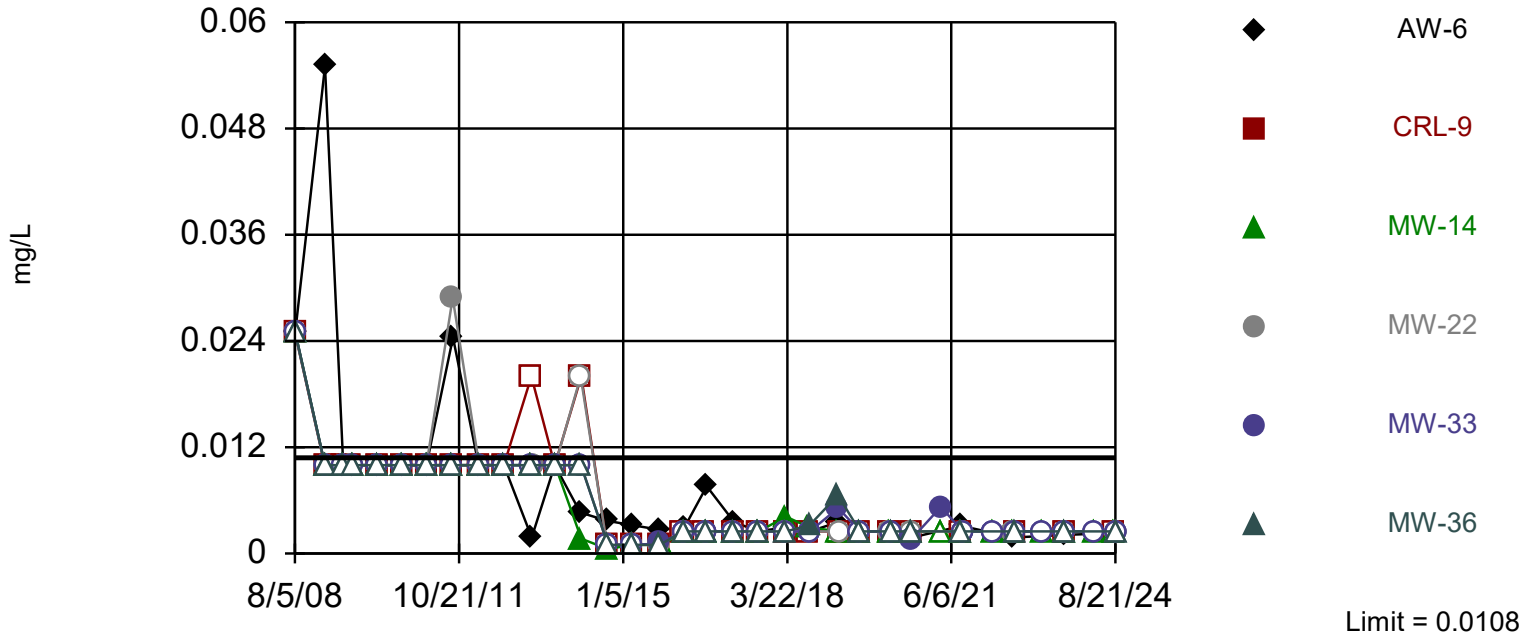
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 52 background values. 98.08% NDs. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2).

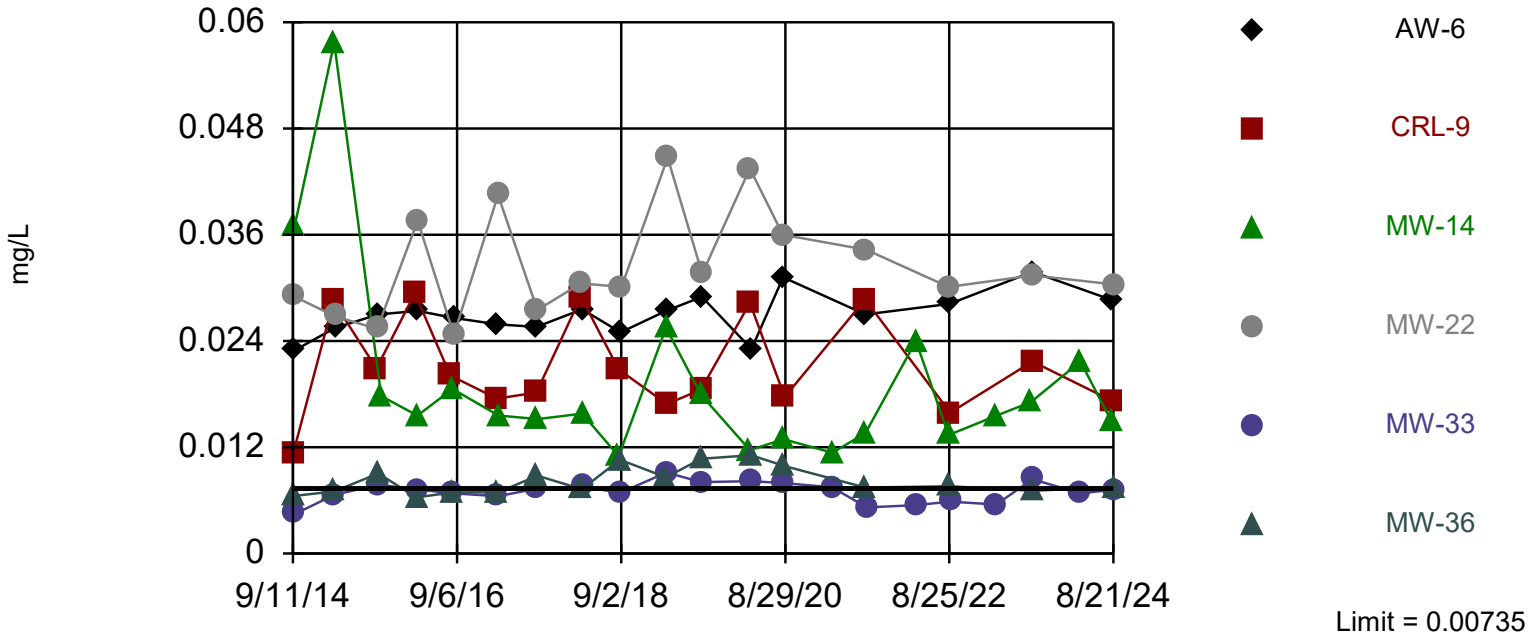
Constituent: Copper Analysis Run 10/17/2024 2:19 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Exceeds Limit: AW-6, CRL-9, MW-14, MW-22, MW-36

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 52.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

Constituent: Nickel Analysis Run 10/17/2024 2:19 PM

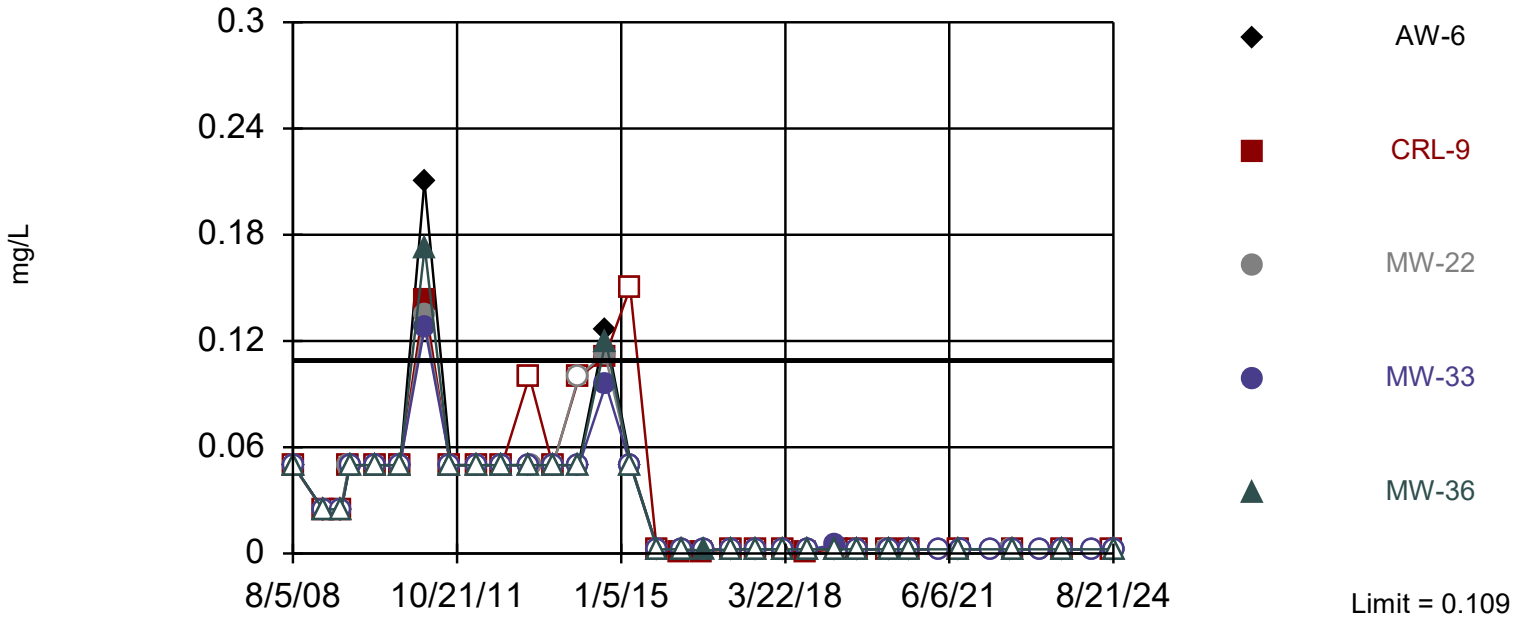
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 96.23% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Tin Analysis Run 10/17/2024 2:19 PM

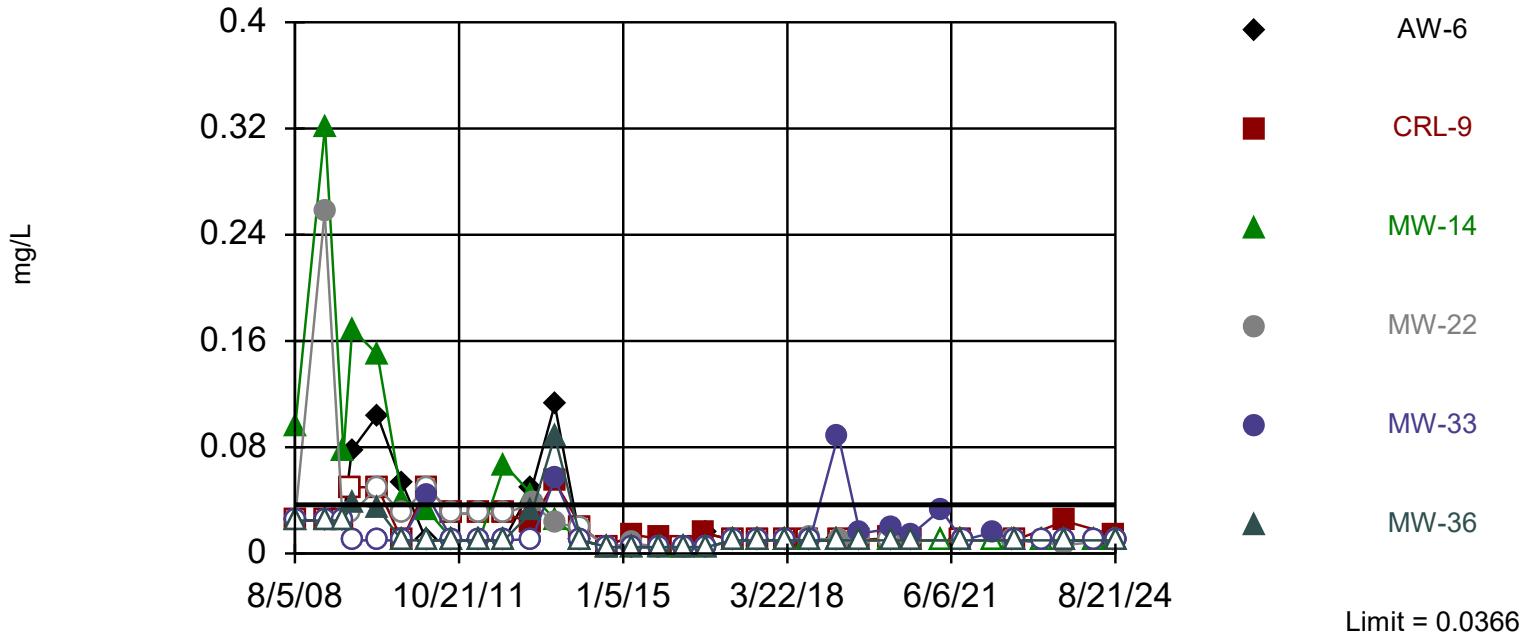
Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Hollow symbols indicate censored values.

Within Limit

Prediction Limit - Corrective Action Monitoring - Assessment Constituents

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 90.57% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2).

Constituent: Zinc Analysis Run 10/17/2024 2:19 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Attachment 3

Sanitas Report Output for Double Quantification Rule Evaluations

Data Screening - Delineation Monitoring

Analysis Run 10/16/2024 5:08 PM - Assessment Constituents

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

A listing of detects for 209 constituents in MW-105A, MW-106A, MW-107A, and MW-109A in August 2024:

Selenium, MW-109A, 8/15/2024: 0.00822 mg/L

Data Screening - Assessment Monitoring

Analysis Run 10/17/2024 9:44 AM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

A listing of detects for 209 constituents in AW-3, AW-4, AW-5, MW-21, MW-23, MW-26, MW-28, VP-3, and VP-4 in August 2024:

Cadmium, AW-4, 8/13/2024: 0.000476 mg/L
Chlorobenzene, MW-21, 8/21/2024: 1.03 ug/L
Selenium, AW-5, 8/19/2024: 0.0172 mg/L
Thallium, MW-21, 8/21/2024: 0.00166 mg/L

Data Screening - Corrective Action Monitoring

Analysis Run 10/17/2024 10:19 AM **- Assessment Constituents**

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

A listing of detects for 209 constituents in AW-1, AW-2, MW-12, MW-13, MW-16, MW-17, MW-20, MW-24, MW-30, MW-32, MW-34, and MW-35 in August 2024:

1,1-Dichloroethane, AW-2, 8/12/2024: 1.29 ug/L
1,1-Dichloroethane, MW-12, 8/20/2024: 4.29 ug/L
1,1-Dichloroethane, MW-13, 8/15/2024: 1.74 ug/L
1,1-Dichloroethane, MW-16, 8/14/2024: 1.32 ug/L
1,1-Dichloroethane, MW-30, 8/19/2024: 11.1 ug/L
1,1-Dichloroethane, MW-34, 8/20/2024: 2.17 ug/L
1,2-Dichlorobenzene, MW-12, 8/20/2024: 2.71 ug/L
1,2-Dichlorobenzene, MW-13, 8/15/2024: 2.15 ug/L
1,2-Dichlorobenzene, MW-16, 8/14/2024: 1.32 ug/L
1,2-Dichlorobenzene, MW-24, 8/15/2024: 5.54 ug/L
1,2-Dichlorobenzene, MW-34, 8/20/2024: 1.12 ug/L
1,4-Dichlorobenzene, AW-1, 8/13/2024: 1.26 ug/L
1,4-Dichlorobenzene, MW-12, 8/20/2024: 8.01 ug/L
1,4-Dichlorobenzene, MW-13, 8/15/2024: 12.4 ug/L
1,4-Dichlorobenzene, MW-16, 8/14/2024: 5.18 ug/L
1,4-Dichlorobenzene, MW-24, 8/15/2024: 11.7 ug/L
1,4-Dichlorobenzene, MW-32, 8/20/2024: 2.47 ug/L
1,4-Dichlorobenzene, MW-34, 8/20/2024: 3.69 ug/L
Benzene, MW-12, 8/20/2024: 0.854 ug/L
Benzene, MW-13, 8/15/2024: 4.11 ug/L
Benzene, MW-16, 8/14/2024: 0.567 ug/L
Benzene, MW-24, 8/15/2024: 8.11 ug/L
Benzene, MW-30, 8/19/2024: 1.1 ug/L
Benzene, MW-32, 8/20/2024: 0.691 ug/L
Benzene, MW-34, 8/20/2024: 1.11 ug/L
Chlorobenzene, AW-1, 8/13/2024: 5.7 ug/L
Chlorobenzene, AW-2, 8/12/2024: 2.26 ug/L
Chlorobenzene, MW-12, 8/20/2024: 3.98 ug/L
Chlorobenzene, MW-13, 8/15/2024: 3.93 ug/L
Chlorobenzene, MW-16, 8/14/2024: 2.01 ug/L
Chlorobenzene, MW-24, 8/15/2024: 63 ug/L
Chlorobenzene, MW-32, 8/20/2024: 12 ug/L
Chlorobenzene, MW-34, 8/20/2024: 2.94 ug/L
Chloroethane, MW-30, 8/19/2024: 8.99 ug/L
cis-1,2-Dichloroethene, AW-2, 8/12/2024: 3.12 ug/L
cis-1,2-Dichloroethene, MW-12, 8/20/2024: 4.21 ug/L
cis-1,2-Dichloroethene, MW-30, 8/19/2024: 7.11 ug/L
Selenium, MW-35, 8/21/2024: 0.00683 mg/L
Thallium, AW-1, 8/13/2024: 0.00161 mg/L
Thallium, MW-12, 8/20/2024: 0.00255 mg/L
Toluene, MW-34, 8/20/2024: 68.9 ug/L
Vinyl Chloride, MW-30, 8/19/2024: 1.15 ug/L

Data Screening - Detection Monitoring

Analysis Run 10/17/2024 1:54 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

A listing of detects for 208 constituents in MW-31 in August 2024:

-none-

Data Screening - Delineation Monitoring

Analysis Run 10/17/2024 2:45 PM **- Assessment Constituents**

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

A listing of detects for 208 constituents in MW-102B, MW-105B, MW-107B, MW-108B, MW-109B in August 2024:

1,1-Dichloroethane, MW-105B, 8/19/2024: 5.29 ug/L
1,4-Dichlorobenzene, MW-109B, 8/15/2024: 1.48 ug/L
Chlorobenzene, MW-109B, 8/15/2024: 7.14 ug/L
Thallium, MW-107B, 8/15/2024: 0.00181 mg/L

Data Screening - Assessment Monitoring

Analysis Run 10/17/2024 2:10 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

A listing of detects for 208 constituents in MW-11, MW-15, MW-18, MW-19, and MW-25 in August 2024:

1,1-Dichloroethane, MW-11, 8/20/2024: 1.78 ug/L
cis-1,2-Dichloroethene, MW-25, 8/15/2024: 1.1 ug/L

Data Screening - Corrective Action Monitoring

- Assessment Constituents

Analysis Run 10/17/2024 2:25 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

A listing of detects for 208 constituents in AW-6, CRL-9, MW-14, MW-22, MW-33, MW-36 in August 2024:

1,1-Dichloroethane, AW-6, 8/19/2024: 1.8 ug/L
1,1-Dichloroethane, MW-14, 8/15/2024: 1.74 ug/L
1,1-Dichloroethane, MW-22, 8/21/2024: 1.71 ug/L
1,2-Dichlorobenzene, MW-14, 8/15/2024: 1.43 ug/L
1,4-Dichlorobenzene, MW-14, 8/15/2024: 7.57 ug/L
1,4-Dichlorobenzene, MW-22, 8/21/2024: 1.36 ug/L
1,4-Dichlorobenzene, MW-33, 8/21/2024: 1.04 ug/L
1,4-Dichlorobenzene, MW-36, 8/21/2024: 1.43 ug/L
Benzene, CRL-9, 8/13/2024: 2.62 ug/L
Benzene, MW-14, 8/15/2024: 0.86 ug/L
Chlorobenzene, MW-14, 8/15/2024: 2.26 ug/L
Chlorobenzene, MW-22, 8/21/2024: 3.01 ug/L
Chlorobenzene, MW-33, 8/21/2024: 6.92 ug/L
Chlorobenzene, MW-36, 8/21/2024: 6.98 ug/L

Attachment 4

Sanitas Report Output for Confidence Interval Calculations
Assessment Mode

Upper Bedrock

Confidence Interval - Assessment Mode [1]

Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2]	Exceed	N	Mean	Standard Deviation	CV	a to Achieve 50% Power at R=1.5 [3,4]	a to Achieve 80% Power at R=2.0 [3,4]	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Delineation Monitoring Locations - Assessment Constituents																
Barium (mg/L)	MW-106A	0.25	0.16	2	No	21	0.20	0.08	0.4	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-107A	0.14	0.10	2	No	21	0.12	0.04	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-109A	0.23	0.19	2	No	13	0.21	0.03	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Nickel (mg/L)	MW-106A	0.040	0.020	0.1	No	21	0.03	0.02	0.8	0.04	0.03	5	None	No	0.04	Param.
Selenium (mg/L)	MW-109A	0.007	0.003	0.05	No	13	0.006	0.005	0.8	0.05	<0.01	0	None	No	0.05	NP (normality)
Assessment Monitoring Locations																
Arsenic (mg/L)	AW-3	0.006	0.003	0.01	No	31	0.006	0.007	1.1	<0.01	<0.01	10	None	No	0.01	NP (normality)
Arsenic (mg/L)	AW-4	0.002	0.001	0.01	No	31	0.002	0.002	0.8	<0.01	<0.01	16	None	No	0.01	NP (normality)
Arsenic (mg/L)	VP-3	0.010	0.005	0.01	No	12	0.008	0.004	0.5	0.03	0.02	0	None	No	0.03	Param.
Arsenic (mg/L)	VP-4	0.006	0.003	0.01	No	29	0.005	0.002	0.5	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	AW-5	0.20	0.13	2	No	30	0.17	0.06	0.4	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-21	0.31	0.24	2	No	30	0.28	0.08	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-26	0.24	0.19	2	No	32	0.22	0.06	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-28	0.28	0.24	2	No	30	0.26	0.04	0.2	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	VP-3	0.69	0.51	2	No	30	0.60	0.20	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Cadmium (mg/L)	AW-4	0.0003	0.0002	0.005	No	31	0.0005	0.0007	1.5	<0.01	<0.01	35	None	No	0.01	NP (normality)
Chlorobenzene (ug/L)	MW-21	2.3	1.2	100	No	30	1.8	1.1	0.6	<0.01	<0.01	17	Kaplan-Meier	No	0.01	Param.
Copper (mg/L)	AW-4	0.04	0.02	1.3	No	32	0.03	0.03	0.9	<0.01	<0.01	34	None	No	0.01	NP (normality)
Nickel (mg/L)	AW-4	0.031	0.024	0.1	No	31	0.03	0.02	0.5	<0.01	<0.01	32	None	No	0.01	NP (normality)
Selenium (mg/L)	AW-5	0.003	0.002	0.05	No	30	0.006	0.007	1.2	<0.01	<0.01	63	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-21	0.002	0.001	0.002	No	29	0.002	0.001	0.4	<0.01	<0.01	31	None	No	0.01	NP (normality)
Corrective Action Monitoring Locations - Assessment Constituents																
1,1-Dichloroethane (ug/L)	AW-2	1.6	1.1	140	No	30	1.4	0.5	0.4	<0.01	<0.01	3	None	No	0.01	Param.
1,1-Dichloroethane (ug/L)	MW-12	21.5	12.6	140	No	34	17.0	10.6	0.6	<0.01	<0.01	0	None	No	0.01	Param.
1,1-Dichloroethane (ug/L)	MW-13	13.4	2.0	140	No	34	8.4	7.7	0.9	<0.01	<0.01	3	None	No	0.01	NP (normality)
1,1-Dichloroethane (ug/L)	MW-16	17.0	1.9	140	No	34	12.2	13.0	1.1	<0.01	<0.01	3	None	No	0.01	NP (normality)
1,1-Dichloroethane (ug/L)	MW-30	11.8	8.4	140	No	30	10.1	3.8	0.4	<0.01	<0.01	0	None	No	0.01	Param.
1,1-Dichloroethane (ug/L)	MW-34	13.3	8.0	140	No	30	10.6	5.9	0.6	<0.01	<0.01	3	None	No	0.01	Param.
1,2-Dichlorobenzene (ug/L)	MW-12	3.6	0.9	600	No	34	2.2	1.5	0.7	<0.01	<0.01	12	None	No	0.01	NP (normality)
1,2-Dichlorobenzene (ug/L)	MW-13	3.0	2.2	600	No	34	2.6	0.9	0.3	<0.01	<0.01	3	None	No	0.01	Param.
1,2-Dichlorobenzene (ug/L)	MW-16	1.3	0.5	600	No	34	0.9	0.5	0.5	<0.01	<0.01	35	None	No	0.01	NP (normality)
1,2-Dichlorobenzene (ug/L)	MW-24	5.1	3.9	600	No	30	4.5	1.3	0.3	<0.01	<0.01	0	None	No	0.01	Param.
1,2-Dichlorobenzene (ug/L)	MW-34	2.6	1.3	600	No	30	2.3	2.2	1.0	<0.01	<0.01	7	None	No	0.01	NP (normality)
1,4-Dichlorobenzene (ug/L)	AW-1	1.6	1.0	75	No	30	1.3	0.6	0.5	<0.01	<0.01	23	Kaplan-Meier	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-12	7.5	2.1	75	No	34	4.8	3.2	0.7	<0.01	<0.01	3	None	No	0.01	NP (normality)
1,4-Dichlorobenzene (ug/L)	MW-13	14.7	11.9	75	No	34	12.7	3.2	0.3	<0.01	<0.01	0	None	No	0.01	NP (normality)
1,4-Dichlorobenzene (ug/L)	MW-16	4.1	2.4	75	No	34	3.3	2.1	0.6	<0.01	<0.01	15	None	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-24	9.6	7.4	75	No	30	8.5	2.4	0.3	<0.01	<0.01	0	None	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-32	5.1	3.3	75	No	34	4.2	2.1	0.5	<0.01	<0.01	9	None	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-34	5.3	3.1	75	No	30	4.4	3.0	0.7	<0.01	<0.01	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MW-20	0.008	0.002	0.01	No	6	0.007	0.007	1.0	0.13	0.09	0	None	No	0.11 [5]	NP (normality)
Arsenic (mg/L)	MW-35	0.010	0.004	0.01	No	29	0.008	0.007	0.8	<0.01	<0.01	3	None	No	0.01	NP (normality)
Barium (mg/L)	AW-1	0.49	0.31	2	No	30	0.40	0.20	0.5	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	AW-2	0.42	0.35	2	No	30	0.42	0.12	0.3	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-12	0.37	0.16	2	No	34	0.27	0.13	0.5	<0.01	<0.01	0	None	No	0.01	NP (normality)

Upper Bedrock

Confidence Interval - Assessment Mode [1]

Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2]	Exceed	N	Mean	Standard Deviation	CV	a to Achieve 50% Power at R=1.5 [3,4]	a to Achieve 80% Power at R=2.0 [3,4]	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Corrective Action Monitoring Locations - Assessment Constituents Continued																
Barium (mg/L)	MW-13	0.79	0.56	2	No	34	0.68	0.28	0.4	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-16	0.08	0.06	2	No	34	0.08	0.03	0.4	<0.01	<0.01	6	None	No	0.01	NP (normality)
Barium (mg/L)	MW-17	0.25	0.13	2	No	34	0.20	0.11	0.5	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-20	0.17	0.15	2	No	30	0.16	0.05	0.3	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-24	1.00	0.81	2	No	30	0.87	0.23	0.3	<0.01	<0.01	3	None	No	0.01	NP (normality)
Barium (mg/L)	MW-30	0.27	0.18	2	No	30	0.24	0.11	0.4	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-32	0.89	0.72	2	No	34	0.78	0.22	0.3	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-34	0.40	0.25	2	No	30	0.32	0.17	0.5	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-35	0.33	0.14	2	No	29	0.23	0.13	0.5	<0.01	<0.01	0	None	No	0.01	NP (normality)
Benzene (ug/L)	MW-12	2.42	1.28	5	No	34	1.85	1.36	0.7	<0.01	<0.01	15	None	No	0.01	Param.
Benzene (ug/L)	MW-13	4.83	3.88	5	No	34	4.35	1.13	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Benzene (ug/L)	MW-16	2.63	1.63	5	No	34	2.13	1.20	0.6	<0.01	<0.01	3	None	No	0.01	Param.
Benzene (ug/L)	MW-24	5.95	4.10	5	No	30	5.14	1.45	0.3	<0.01	<0.01	0	None	No	0.01	NP (normality)
Benzene (ug/L)	MW-30	2.47	1.67	5	No	30	2.07	0.89	0.4	<0.01	<0.01	3	None	No	0.01	Param.
Benzene (ug/L)	MW-32	2.56	1.49	5	No	34	2.02	1.28	0.6	<0.01	<0.01	6	None	No	0.01	Param.
Benzene (ug/L)	MW-34	3.13	2.23	5	No	30	2.68	1.00	0.4	<0.01	<0.01	3	None	No	0.01	Param.
Chlorobenzene (ug/L)	AW-1	7.8	4.8	100	No	30	6.3	3.3	0.5	<0.01	<0.01	3	None	No	0.01	Param.
Chlorobenzene (ug/L)	AW-2	2.8	1.8	100	No	30	2.3	1.2	0.5	<0.01	<0.01	7	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-12	5.8	3.6	100	No	34	4.7	2.6	0.6	<0.01	<0.01	3	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-13	5.3	4.2	100	No	34	4.7	1.3	0.3	<0.01	<0.01	3	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-16	2.1	1.4	100	No	34	1.7	0.8	0.5	<0.01	<0.01	9	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-24	53.1	28.7	100	No	30	40.5	15.5	0.4	<0.01	<0.01	0	None	No	0.01	NP (normality)
Chlorobenzene (ug/L)	MW-32	11.6	9.0	100	No	34	10.3	3.2	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-34	5.0	2.9	100	No	30	4.1	2.3	0.6	<0.01	<0.01	10	None	No	0.01	NP (normality)
Chloroethane (ug/L)	MW-30	12.0	9.6	2800	No	30	10.8	2.7	0.2	<0.01	<0.01	0	None	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	AW-2	4.8	3.5	70	No	30	4.2	1.4	0.3	<0.01	<0.01	0	None	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-12	9.4	4.2	70	No	34	8.5	6.2	0.7	<0.01	<0.01	0	None	No	0.01	NP (normality)
cis-1,2-Dichloroethene (ug/L)	MW-30	6.3	5.0	70	No	30	5.7	1.4	0.2	<0.01	<0.01	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-32	0.005	0.002	0.008	No	34	0.006	0.007	1.1	<0.01	<0.01	21	None	No	0.01	NP (normality)
Nickel (mg/L)	MW-12	0.076	0.065	0.1	No	20	0.070	0.010	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Nickel (mg/L)	MW-32	0.036	0.017	0.1	No	34	0.049	0.071	1.5	<0.01	<0.01	24	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-35	0.004	0.003	0.05	No	29	0.005	0.007	1.4	<0.01	<0.01	83	None	No	0.01	NP (NDs)
Thallium (mg/L)	AW-1	0.0011	0.0007	0.002	No	29	0.0009	0.0003	0.3	<0.01	<0.01	38	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	MW-12	0.0041	0.0012	0.002	No	34	0.0034	0.0030	0.9	<0.01	<0.01	21	None	No	0.01	NP (normality)
Toluene (ug/L)	MW-34	2.2	0.5	1000	No	30	6.6	21.3	3.2	<0.01	<0.01	83	None	No	0.01	NP (NDs)
Vinyl Chloride (ug/L)	MW-30	1.36	1.03	2	No	30	1.15	0.43	0.4	<0.01	<0.01	17	Kaplan-Meier	No	0.01	Param.
Zinc (mg/L)	MW-30	0.14	0.07	2	No	16	0.10	0.05	0.5	<0.01	<0.01	0	None	No	0.01	Param.

[1] Under assessment mode, an SSL is indicated when the lower confidence limit exceeds the groundwater protection standard (compliance limit).

[2] Value is the 40 CFR Part 141 Safe Drinking Water Act MCL or the IAC 567 Chapter 137 Statewide Standard for a Protected Groundwater Source.

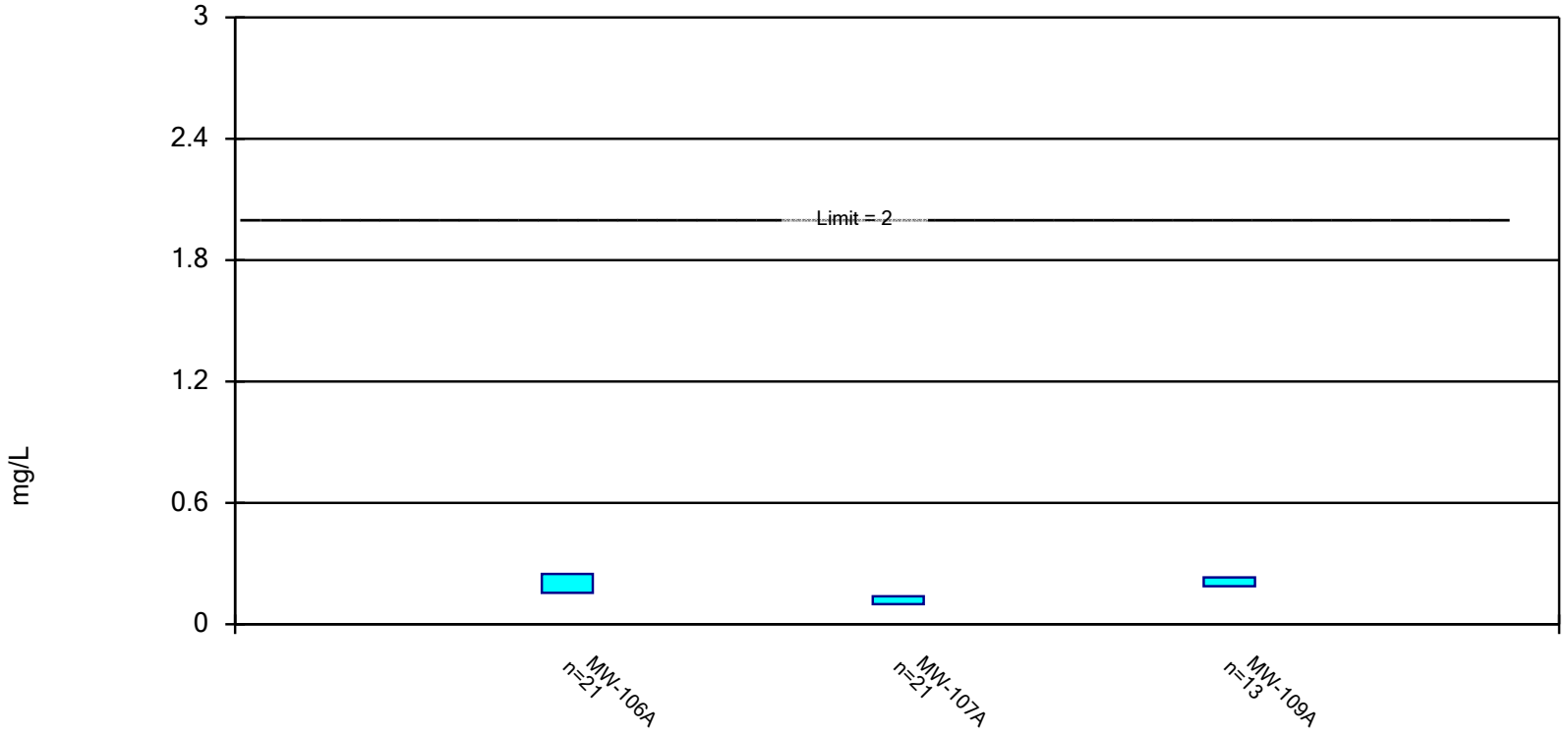
[3] For parametric confidence intervals: Except where otherwise indicated, based on Unified Guidance Equation 22.2, i.e., $\alpha \sim 1 - F_{T,n-1}\left(\frac{(R-1)\sqrt{n}}{R \cdot \widehat{CV}} - t_{1-\beta,n-1}\right)$
where R is the desired risk ratio, n is the sample size, CV is the estimated sample coefficient of variation, $t_{1-b,n-1}$ is the (1−b) Student's t-quantile with (n−1) degrees of freedom, and F is the cumulative (central) Student's t-distribution function.

[4] For non-parametric confidence intervals: Based on Unified Guidance Equation 22.1, i.e., $1-\beta = G_{T,n-1}\left(t_{1-\alpha,n-1} \middle| \Delta = \sqrt{n}(R-1)\right)$
where R is the desired risk ratio, $t_{1-a,n-1}$ is the (1−a) Student's t-quantile with (n−1) degrees of freedom and G represents the cumulative non-central t-distribution with (n−1) degrees of freedom and noncentrality parameter D.

[5] Value obtained from Unified Guidance Table 21-11.

Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

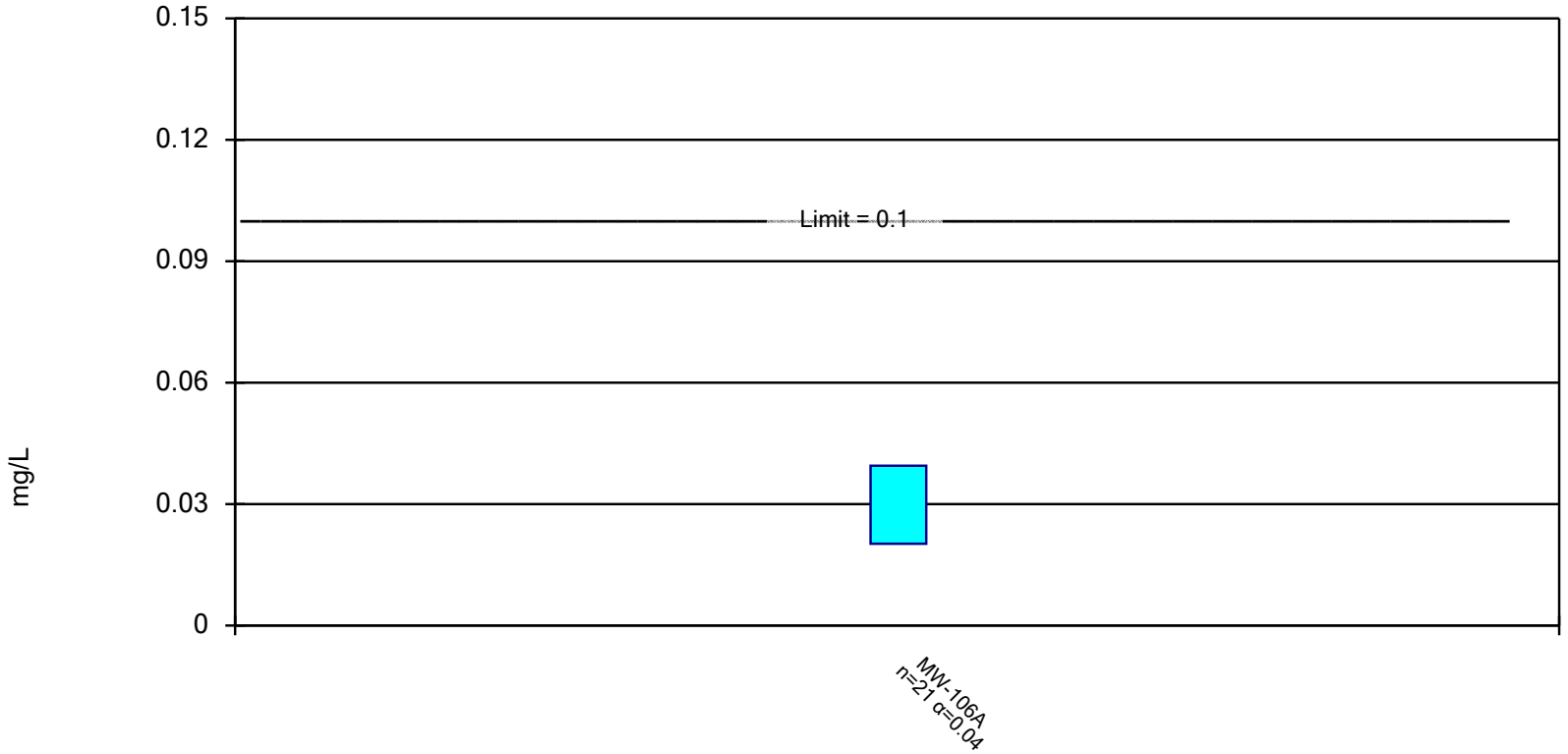


Constituent: Barium Analysis Run 10/18/2024 2:02 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

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

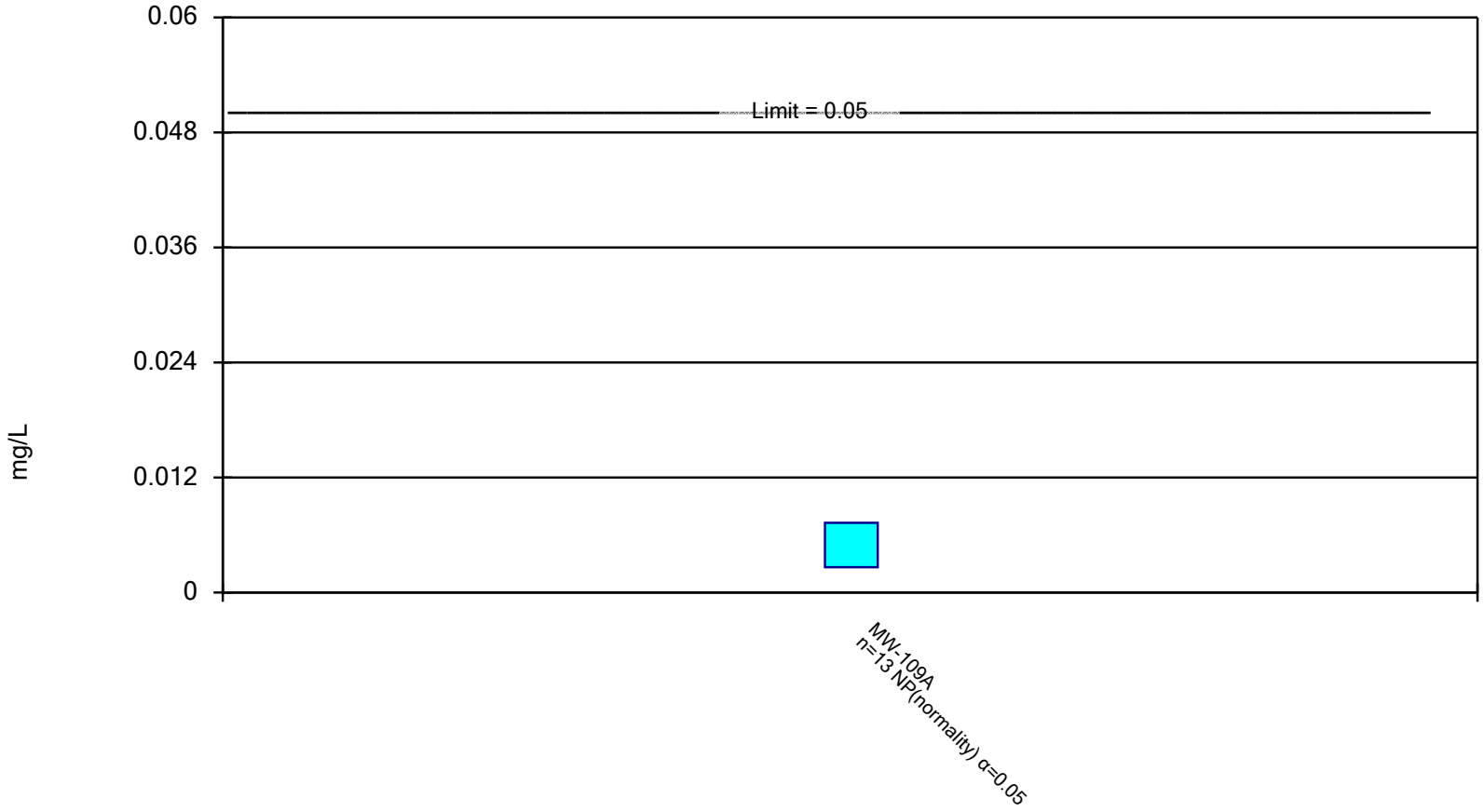


Constituent: Nickel Analysis Run 10/18/2024 2:12 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Delineation Monitoring

Compliance Limit is not exceeded. - Assessment Constituents

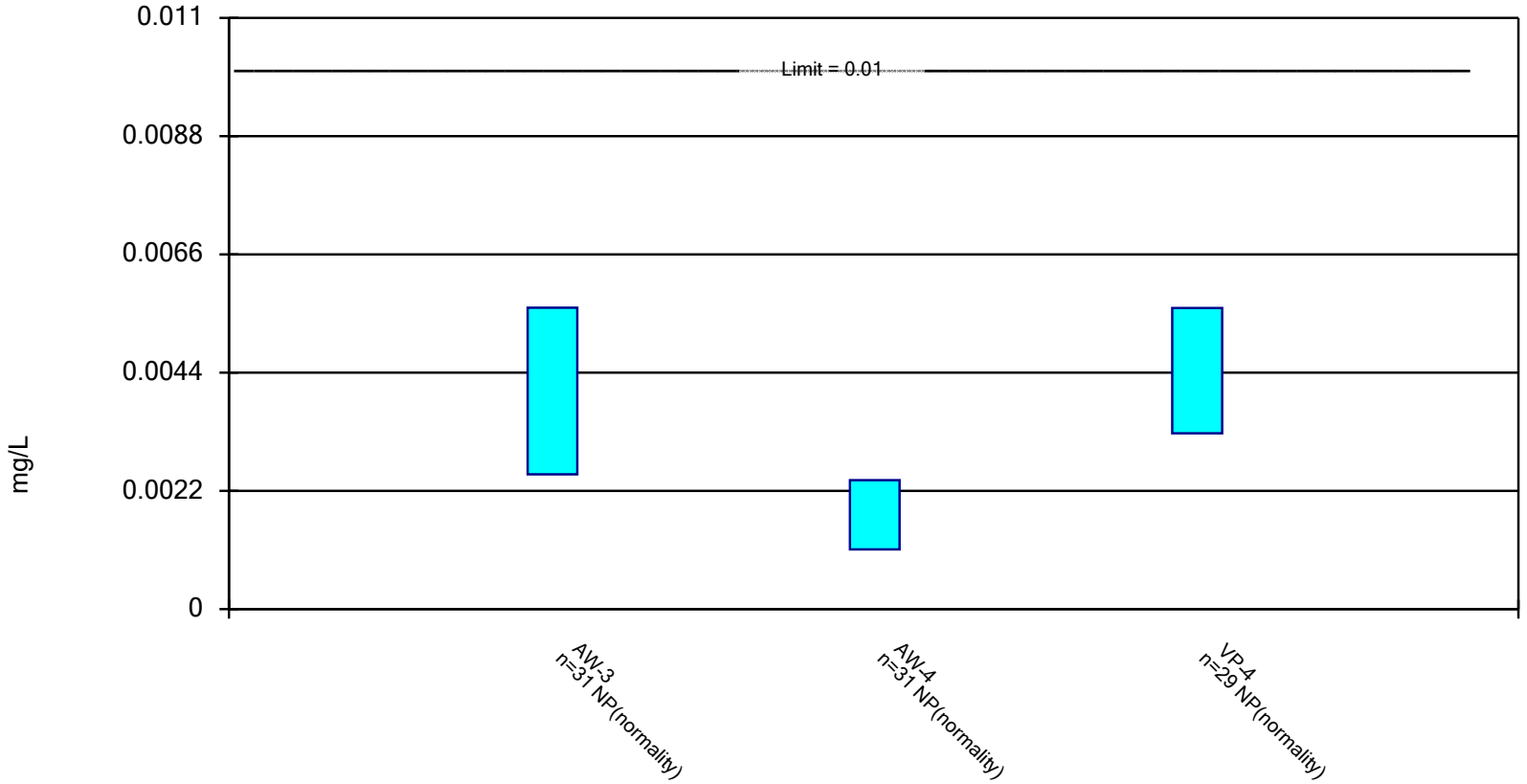


Constituent: Selenium Analysis Run 10/18/2024 2:20 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01.

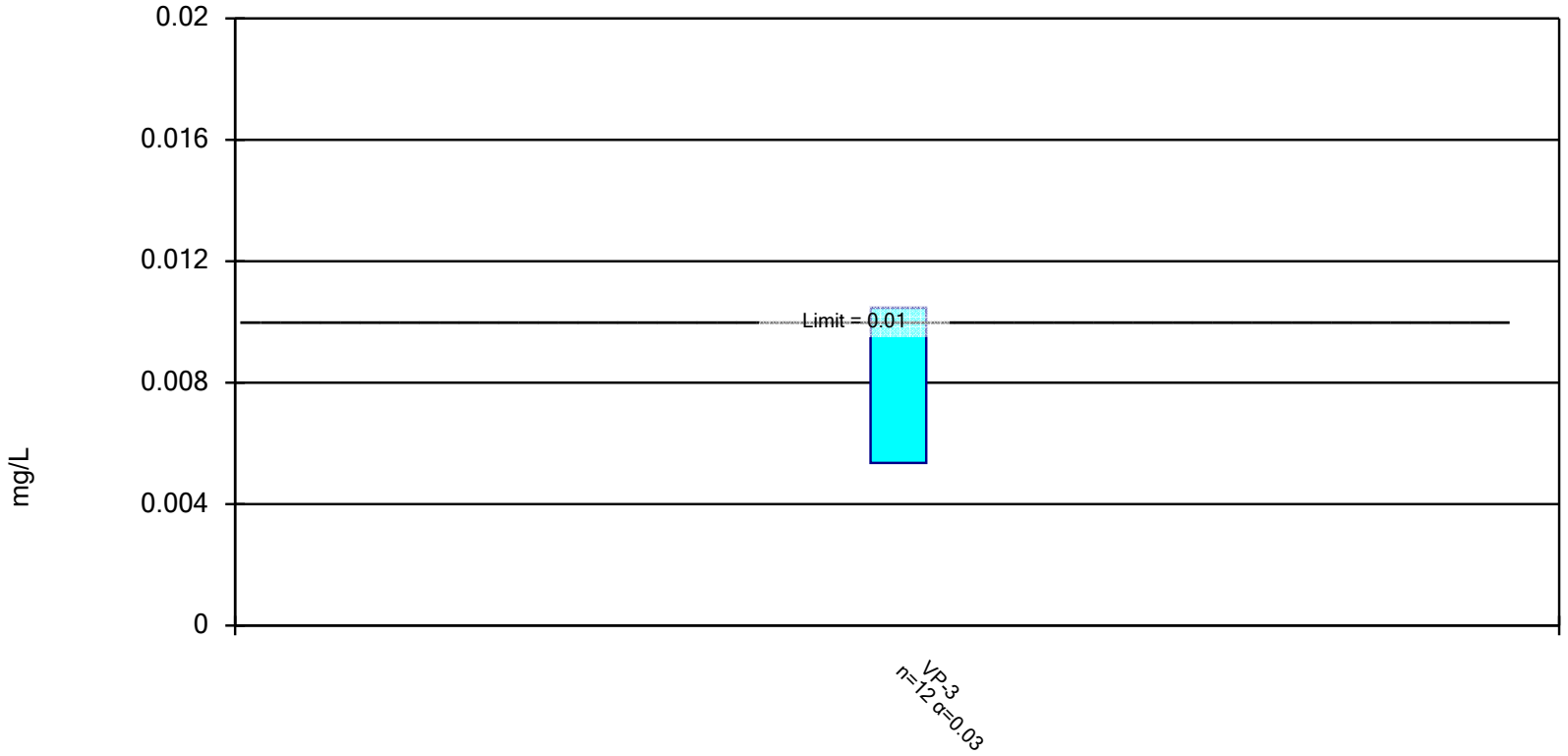


Constituent: Arsenic Analysis Run 10/18/2024 2:44 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Assessment Monitoring

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

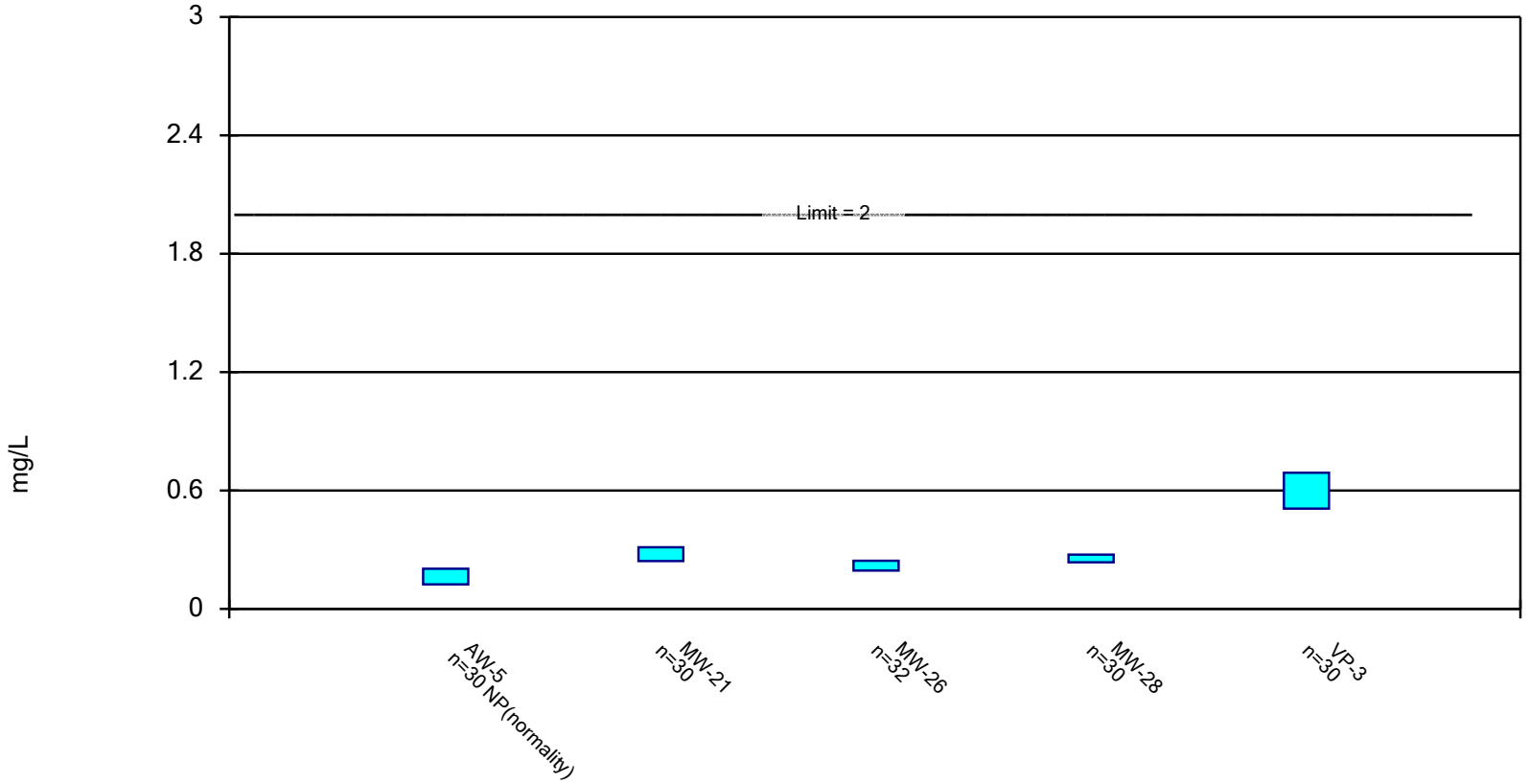


Constituent: Arsenic Analysis Run 10/18/2024 2:45 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

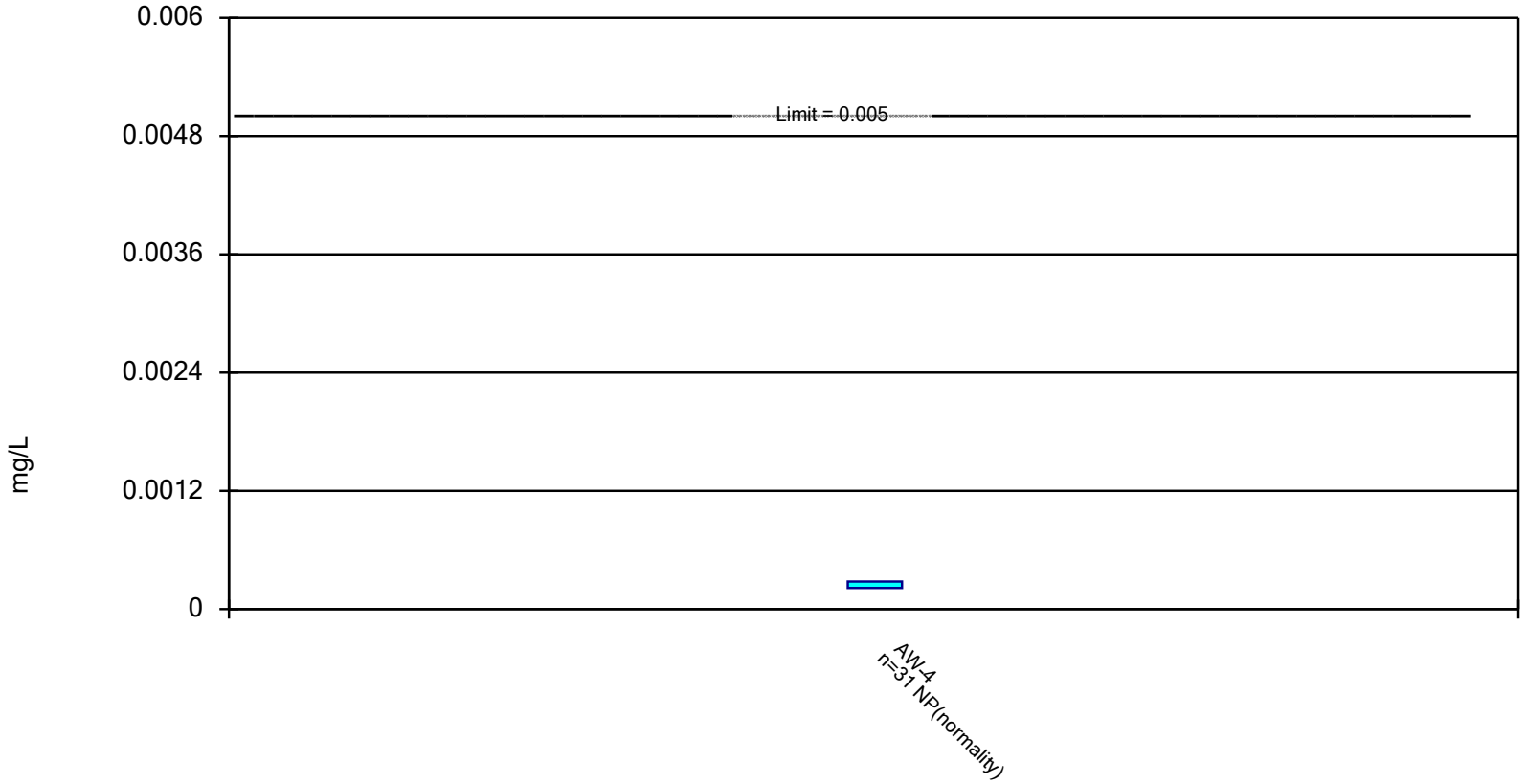


Constituent: Barium Analysis Run 10/18/2024 2:31 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01.

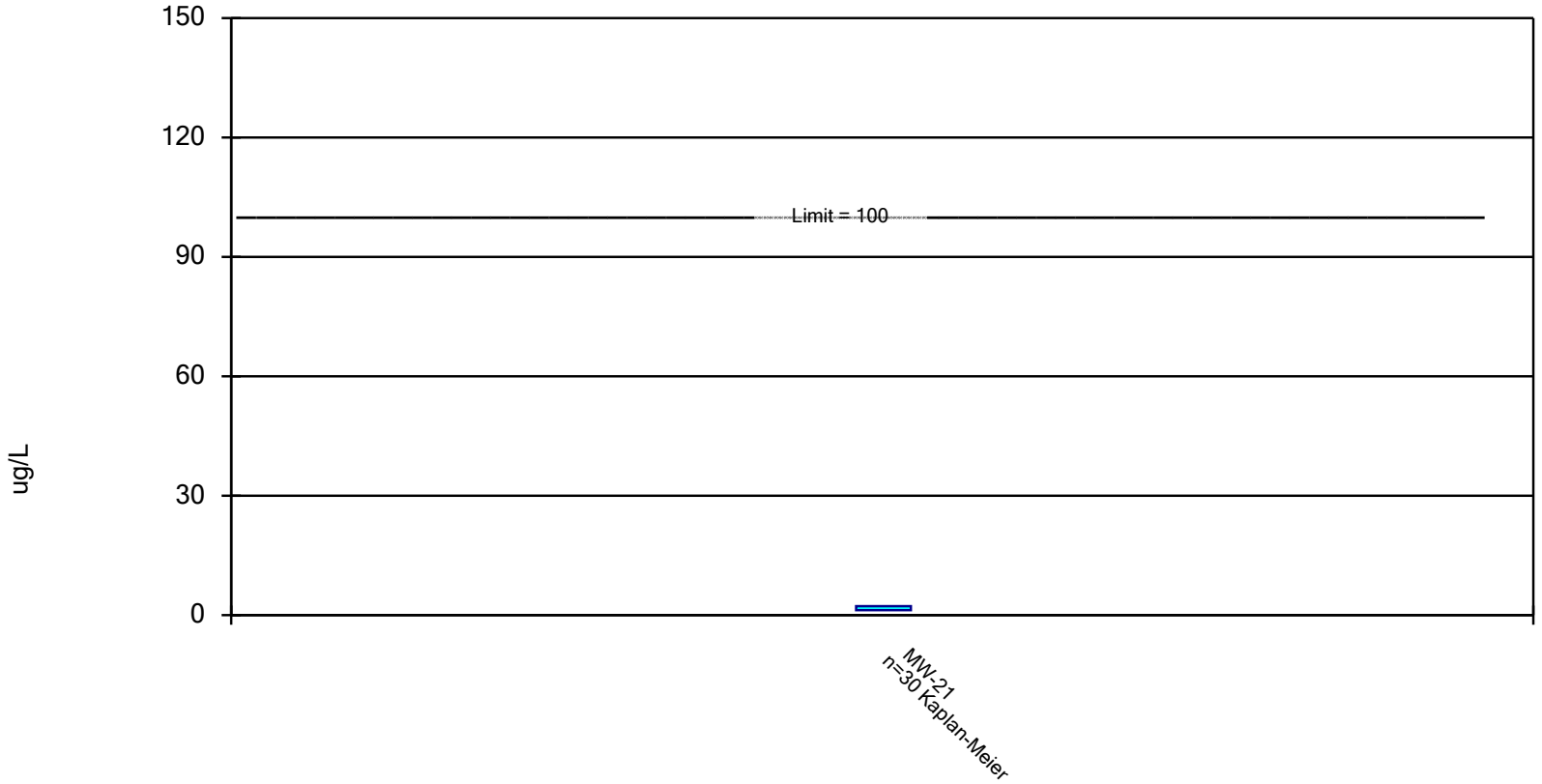


Constituent: Cadmium Analysis Run 10/18/2024 2:31 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

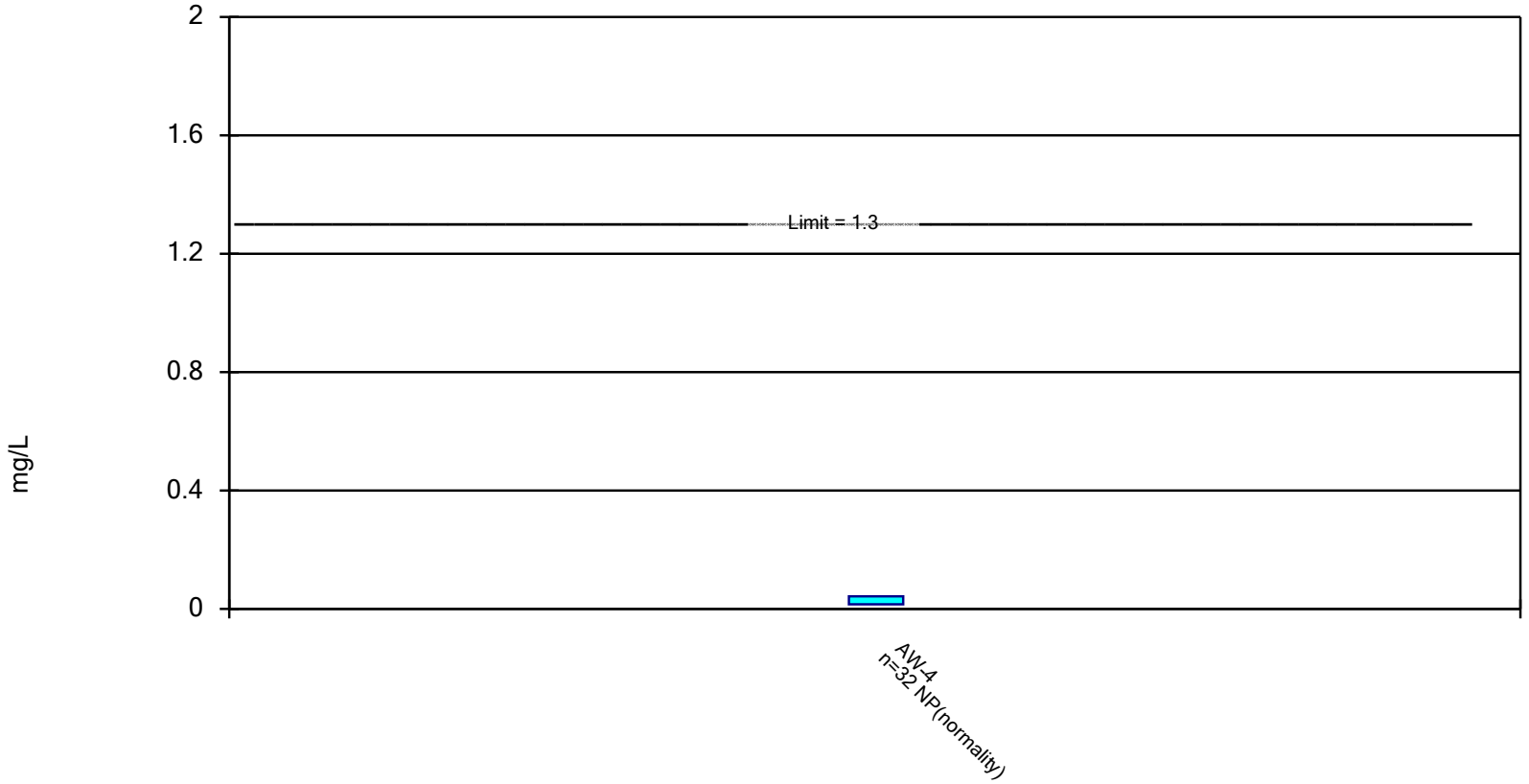


Constituent: Chlorobenzene Analysis Run 10/18/2024 2:31 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01.

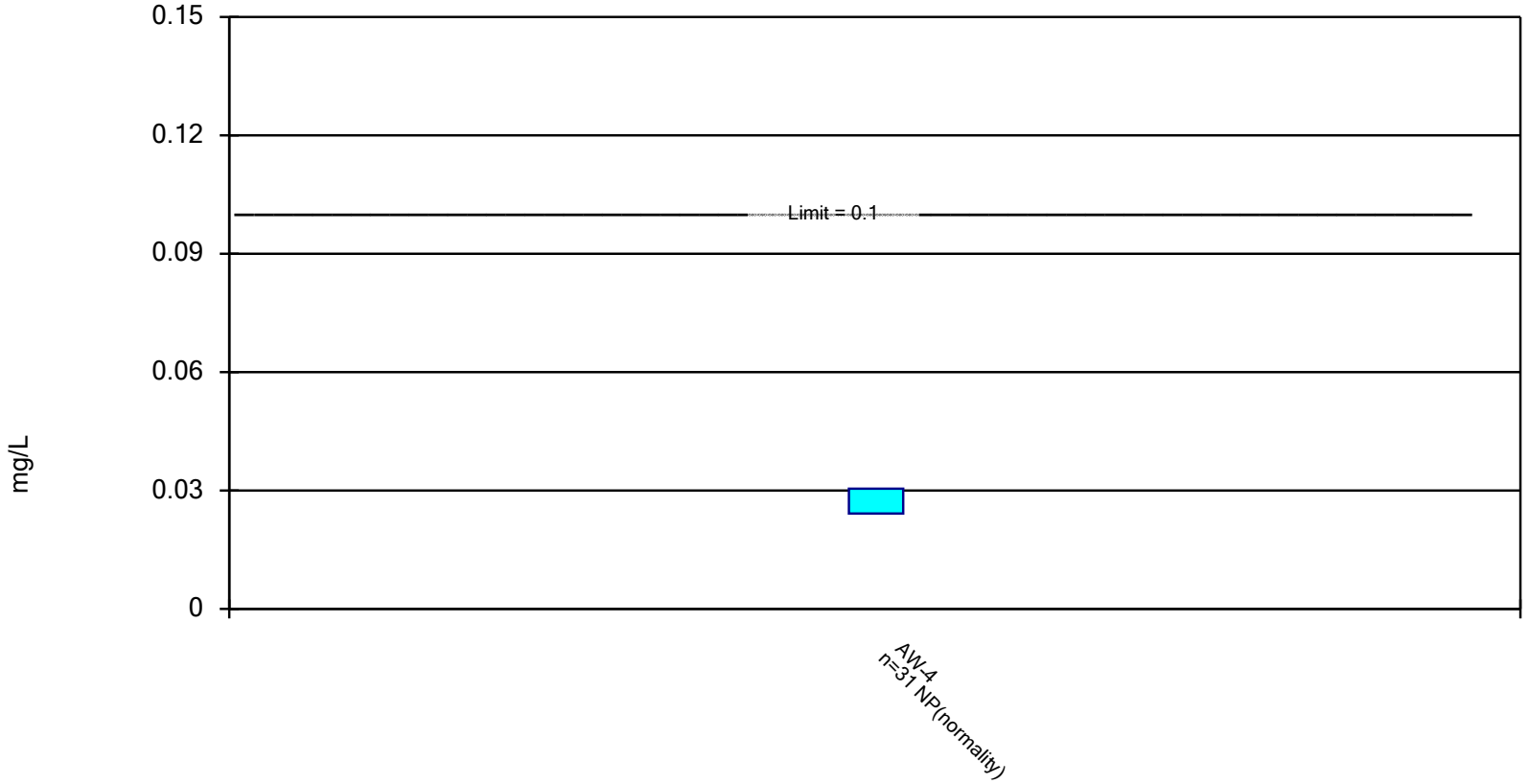


Constituent: Copper Analysis Run 10/18/2024 2:31 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Nickel Analysis Run 10/18/2024 2:32 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Assessment Monitoring

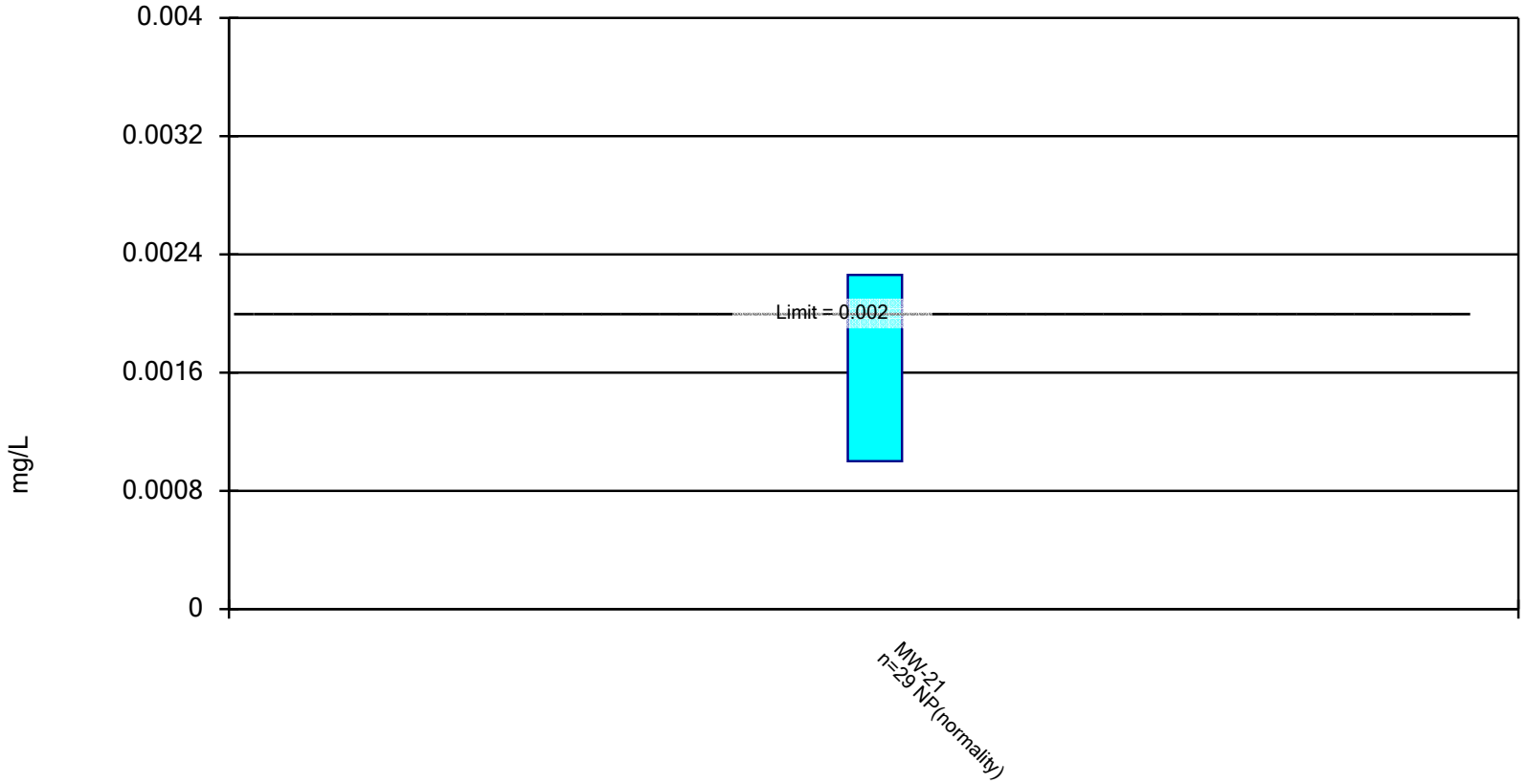
Compliance Limit is not exceeded. Per-well alpha = 0.01.

Constituent: Selenium Analysis Run 10/18/2024 2:32 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01.

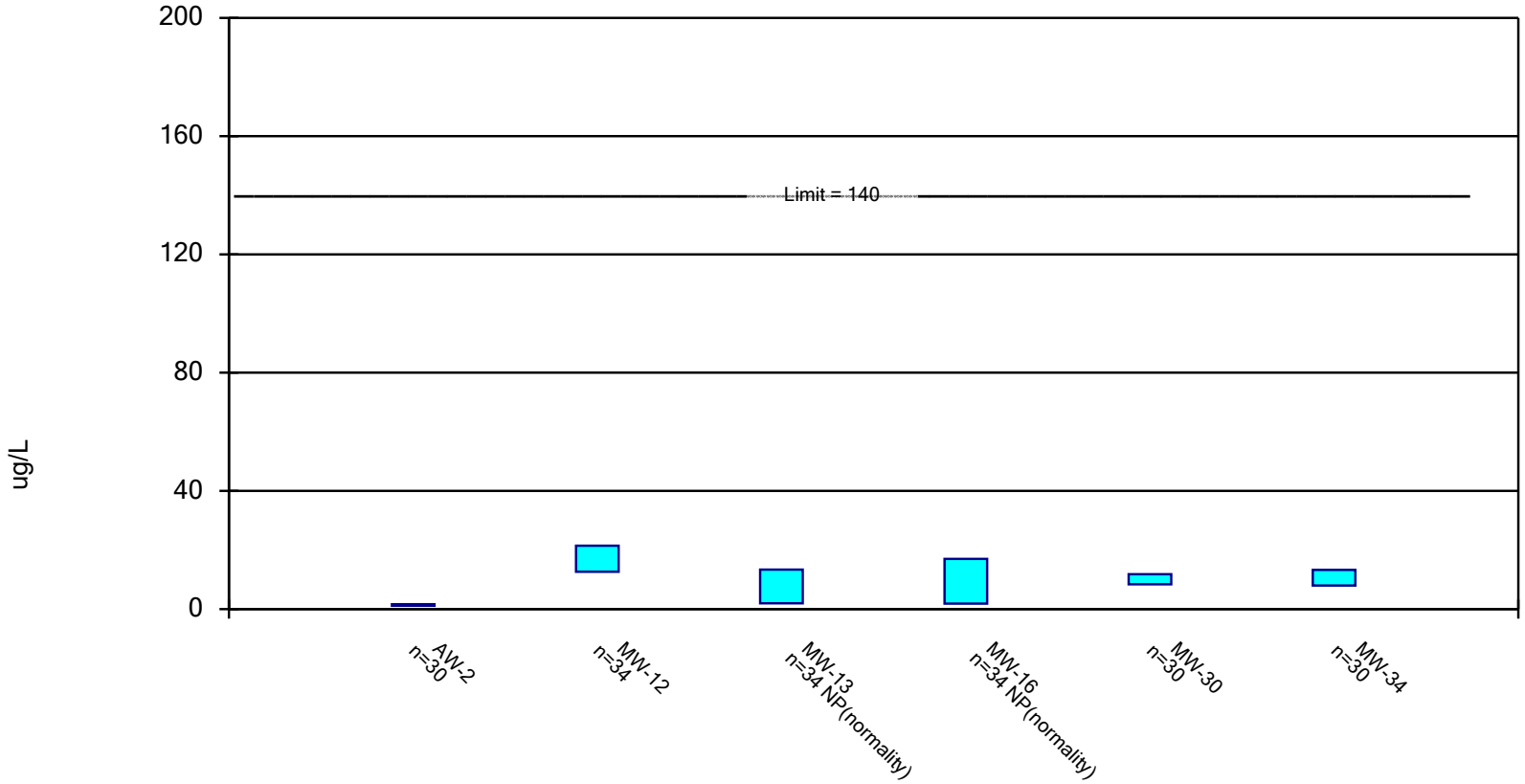


Constituent: Thallium Analysis Run 10/18/2024 2:32 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

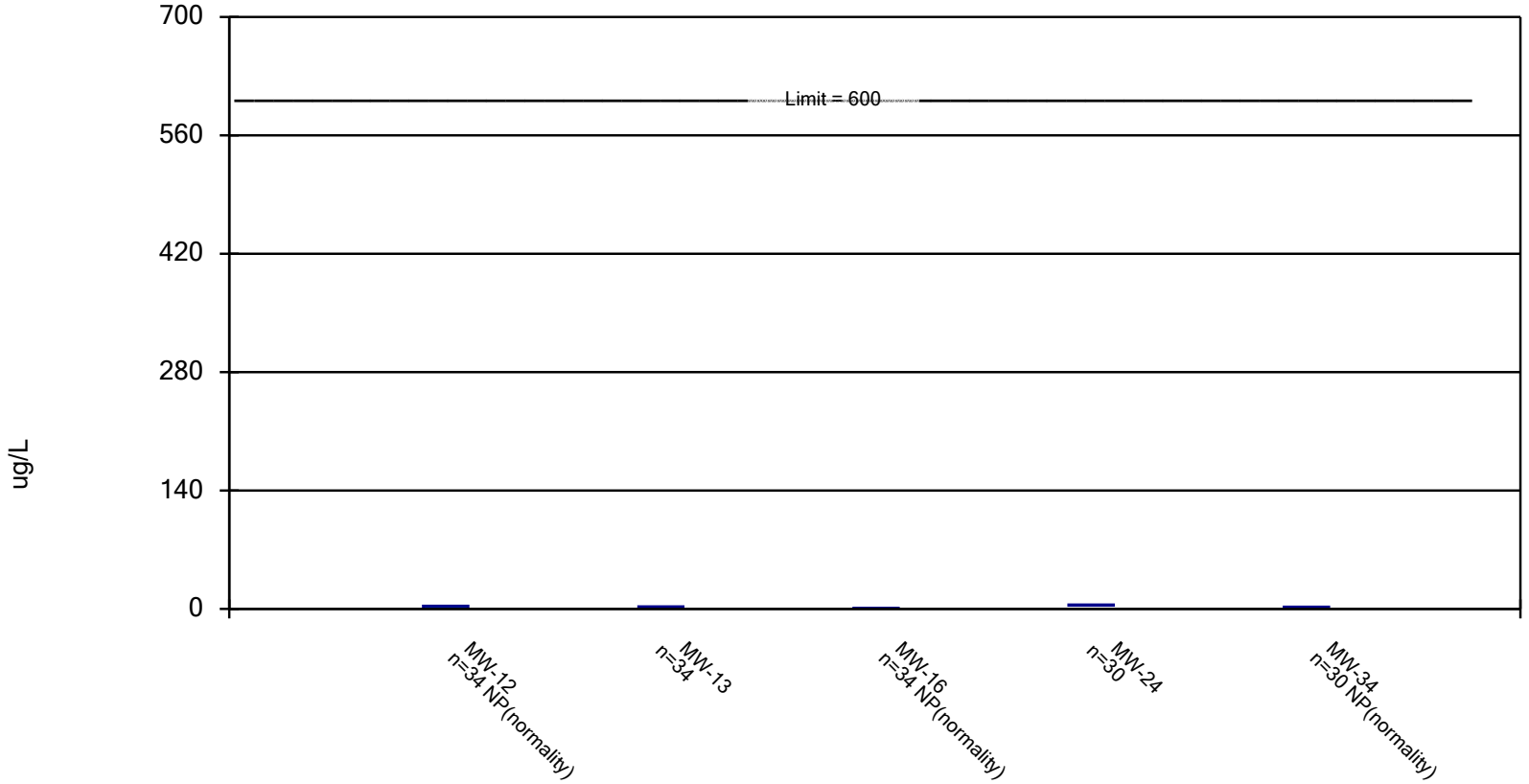


Constituent: 1,1-Dichloroethane Analysis Run 10/18/2024 3:15 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

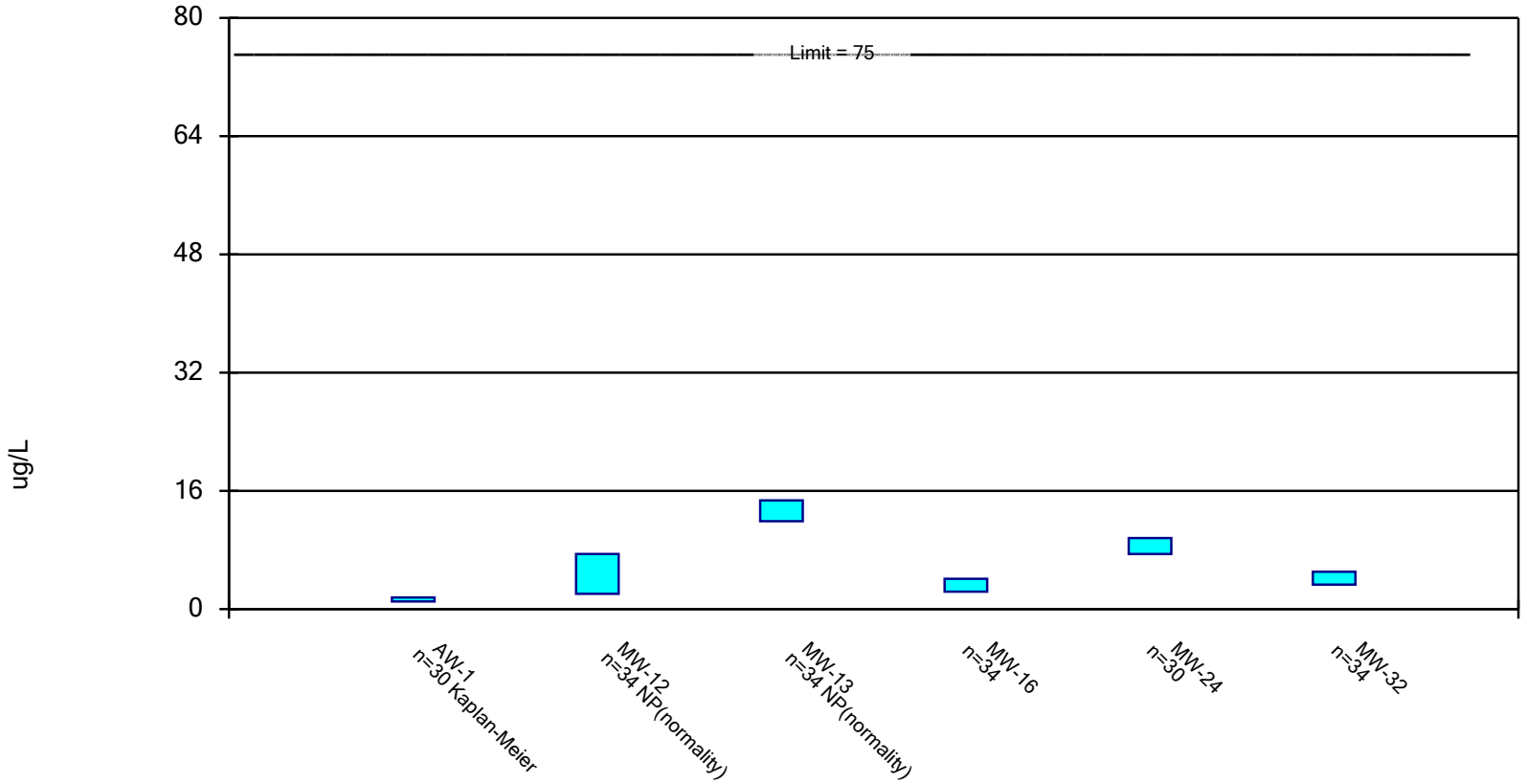


Constituent: 1,2-Dichlorobenzene Analysis Run 10/18/2024 3:15 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

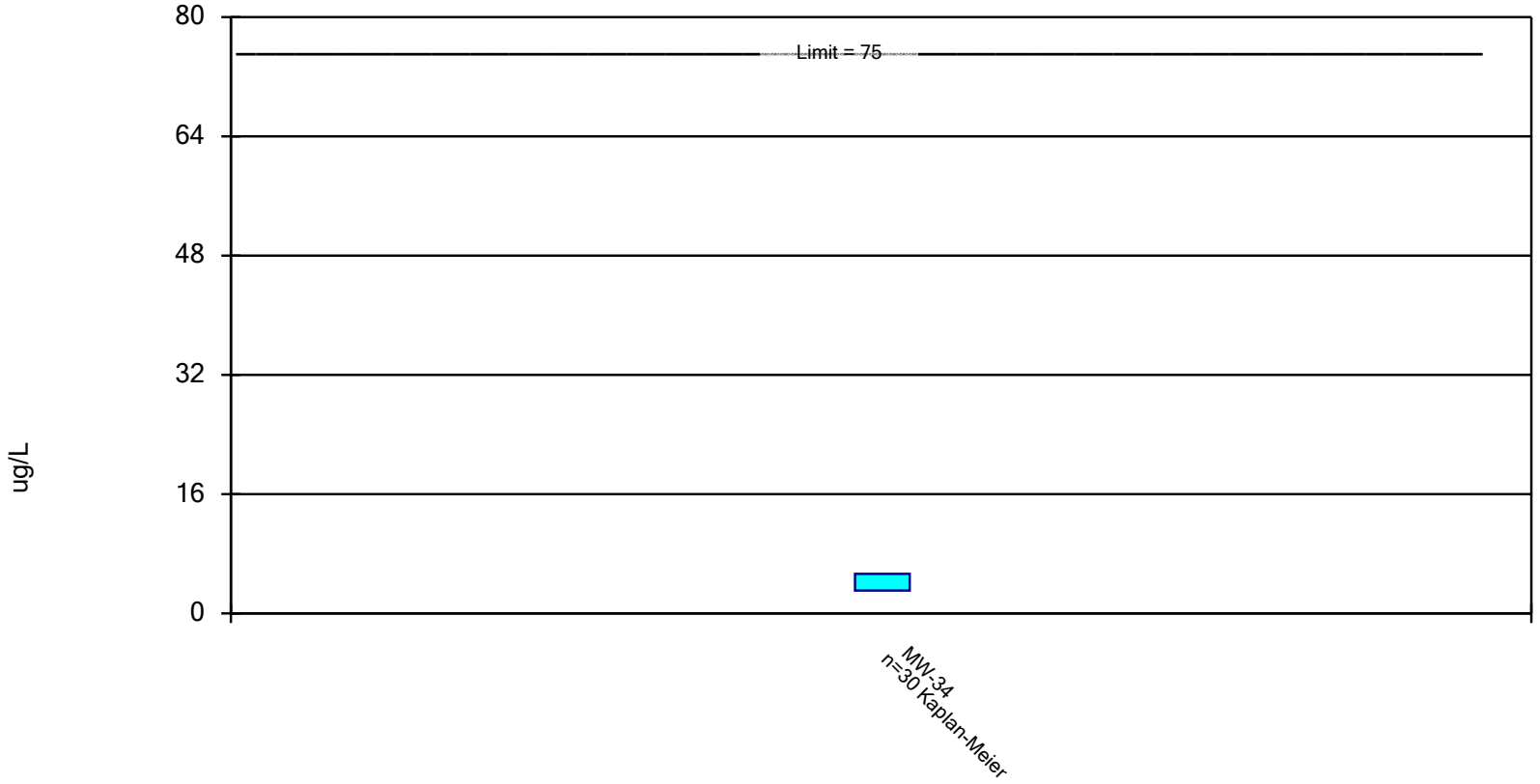


Constituent: 1,4-Dichlorobenzene Analysis Run 10/18/2024 3:15 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

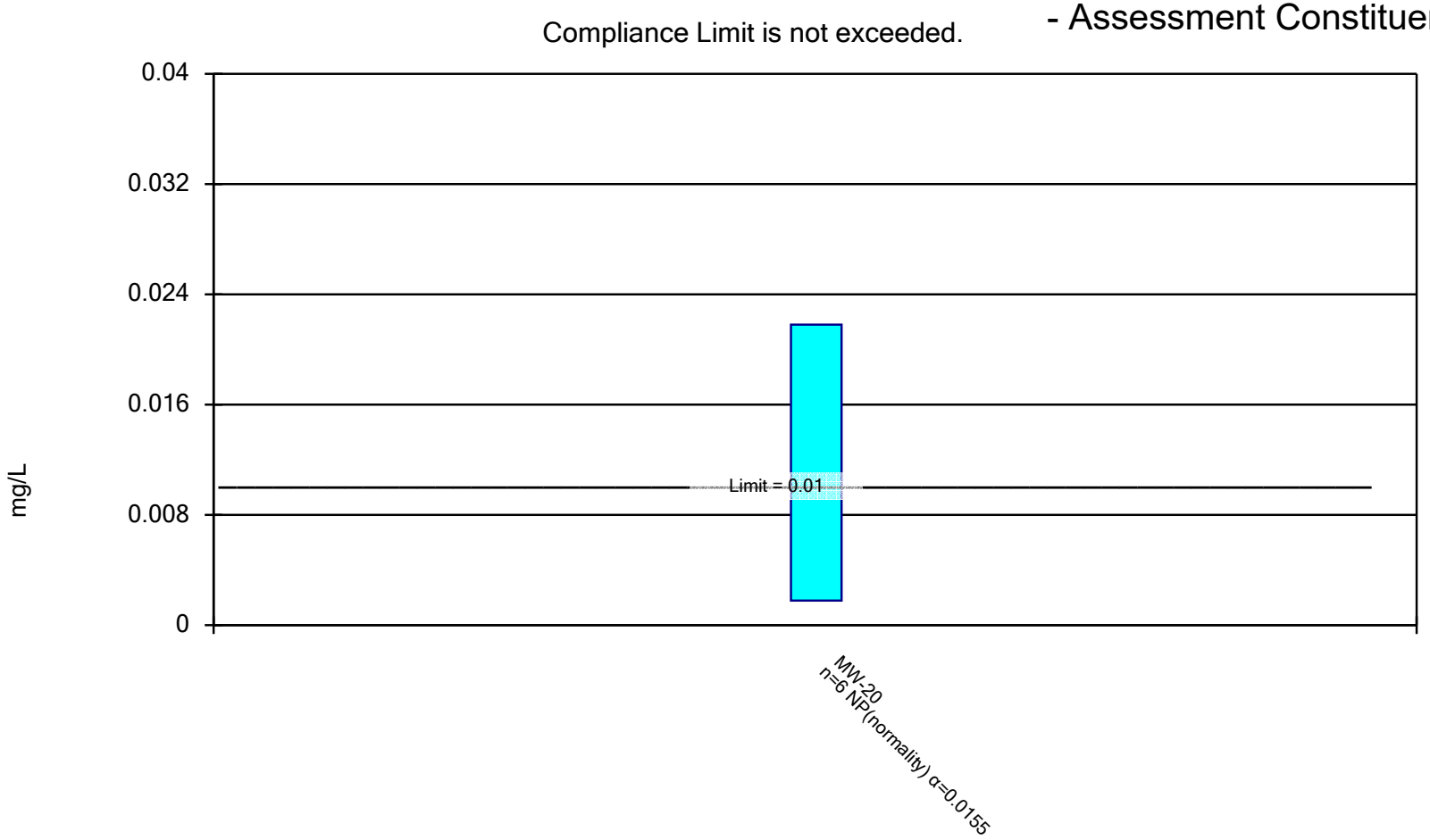
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: 1,4-Dichlorobenzene Analysis Run 10/18/2024 3:15 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents



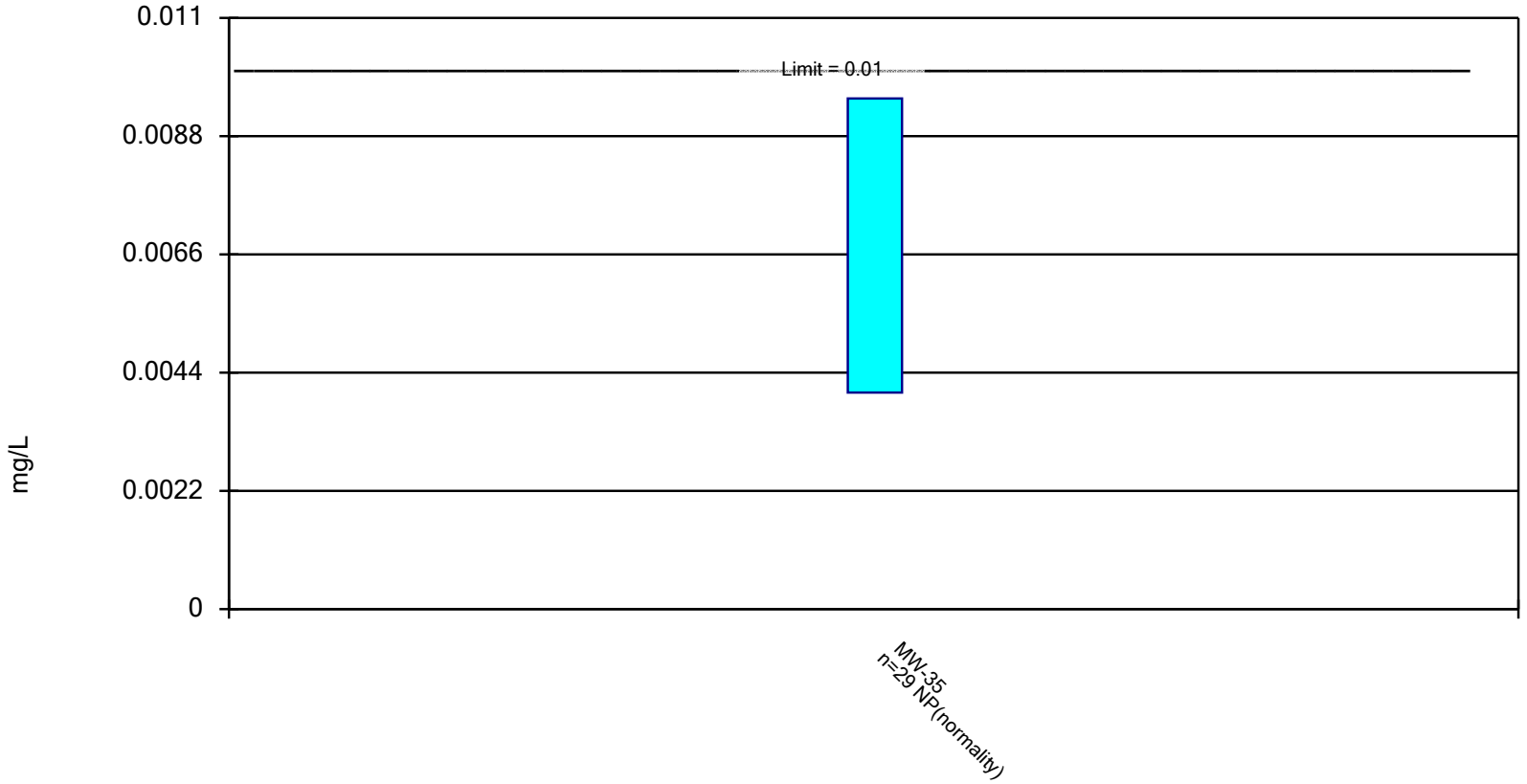
Constituent: Arsenic Analysis Run 10/18/2024 4:01 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Note: Sanitas would not calculate the non-parametric confidence interval with the user-selected 0.13 modified alpha. Chart shown above utilizes the default alpha for non-parametric tests. As a result, the alpha and upper/lower limits on the summary table vary slightly from the chart above and reflect values obtained from Unified Guidance Table 21-11.

Non-Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01.

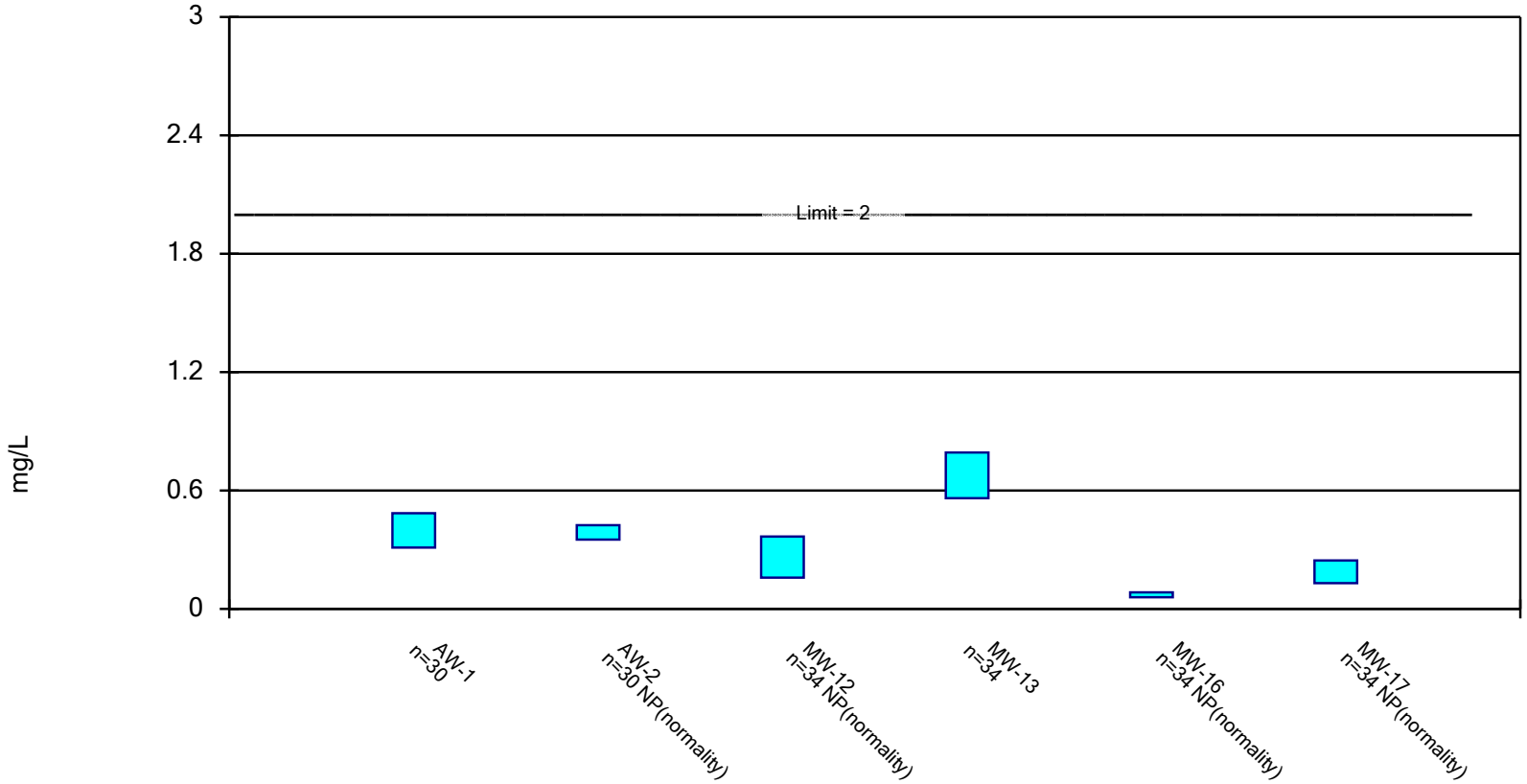


Constituent: Arsenic Analysis Run 10/18/2024 4:03 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

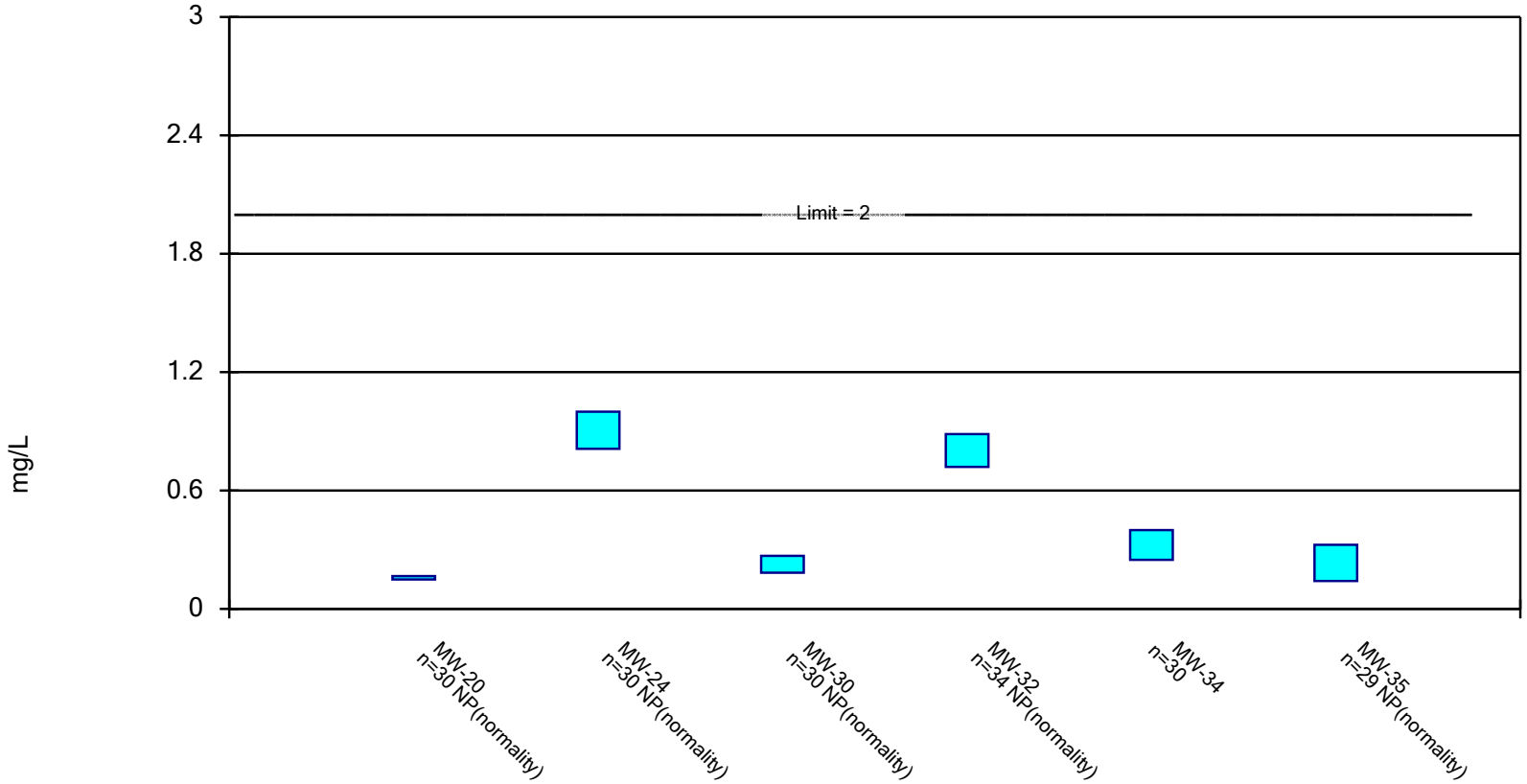


Constituent: Barium Analysis Run 10/18/2024 3:15 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

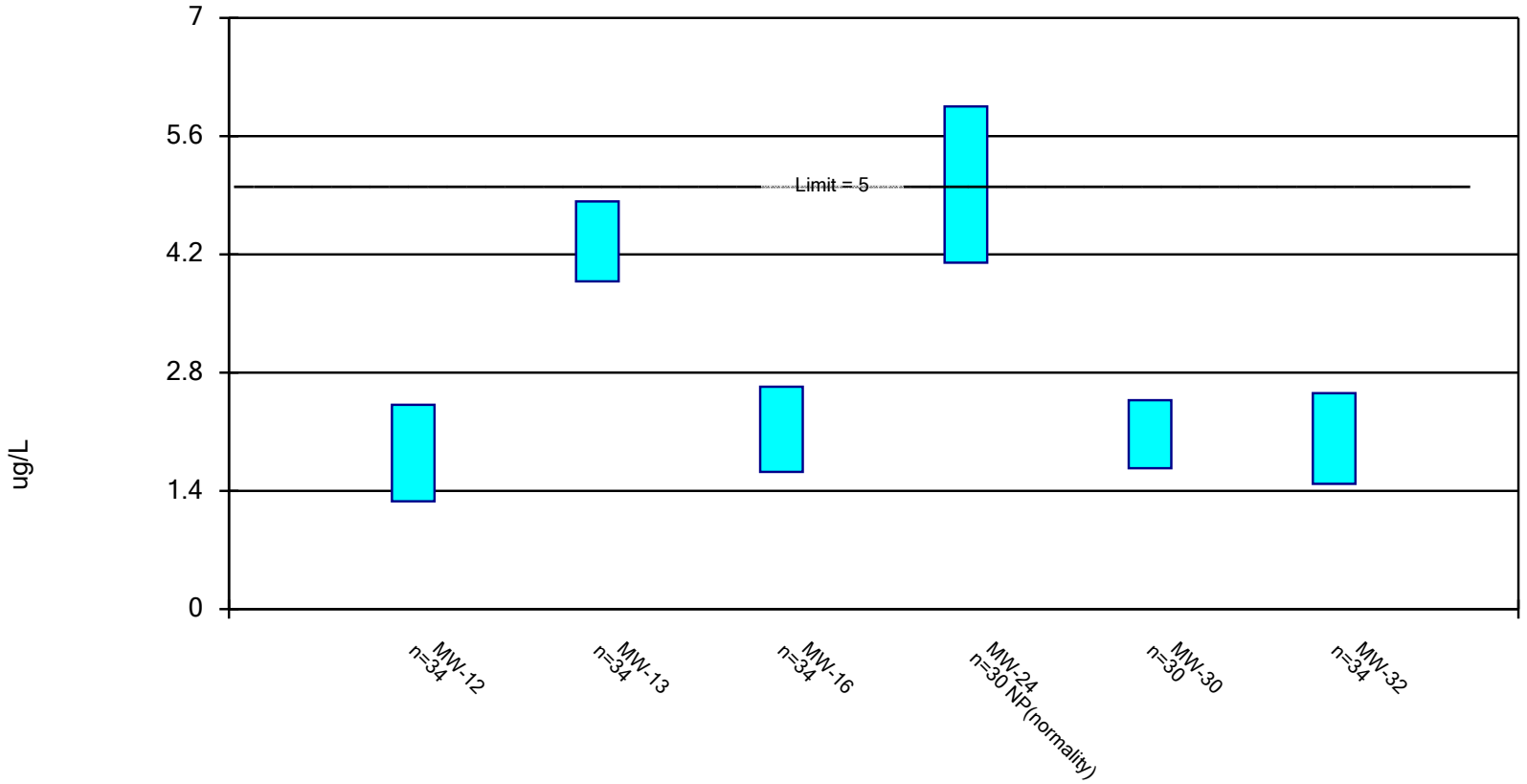


Constituent: Barium Analysis Run 10/18/2024 3:15 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

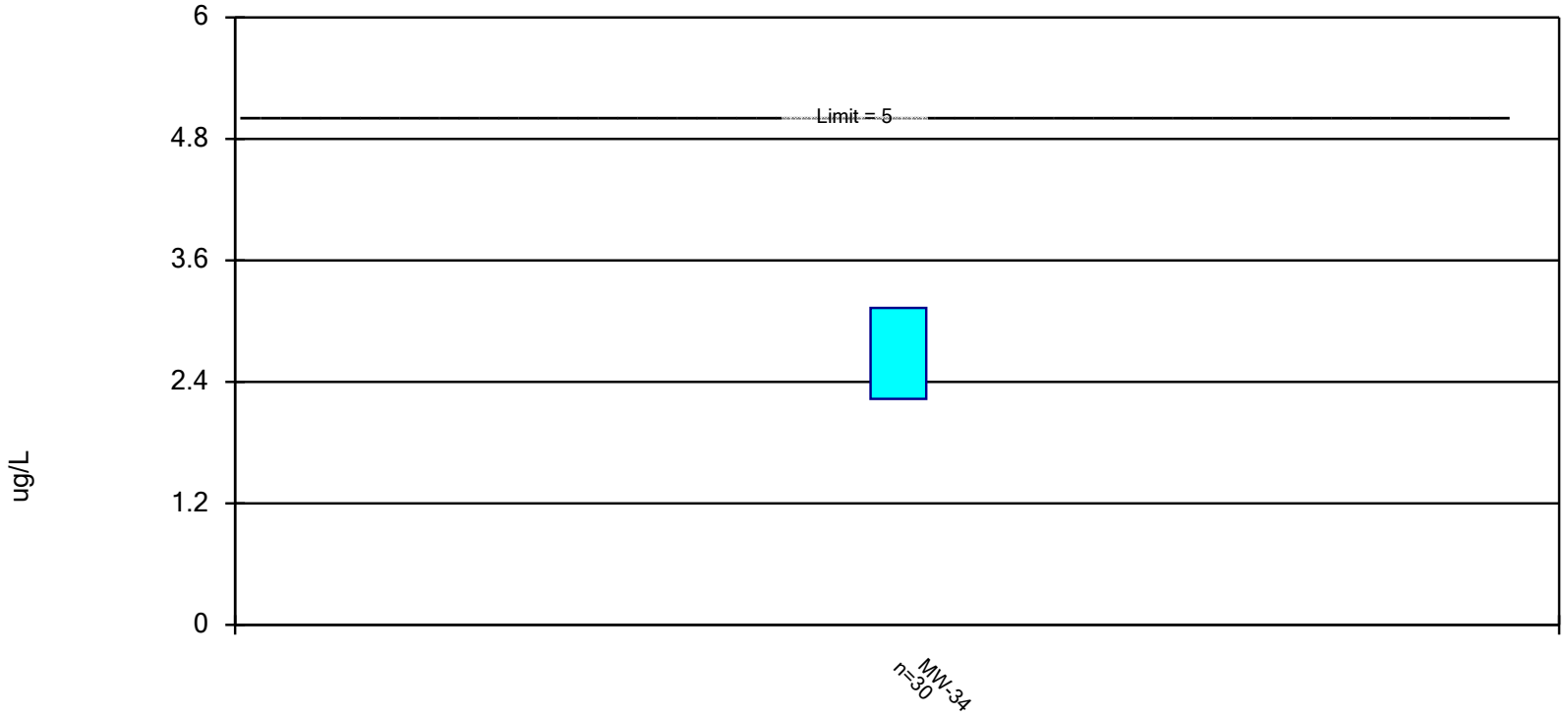


Constituent: Benzene Analysis Run 10/18/2024 3:15 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

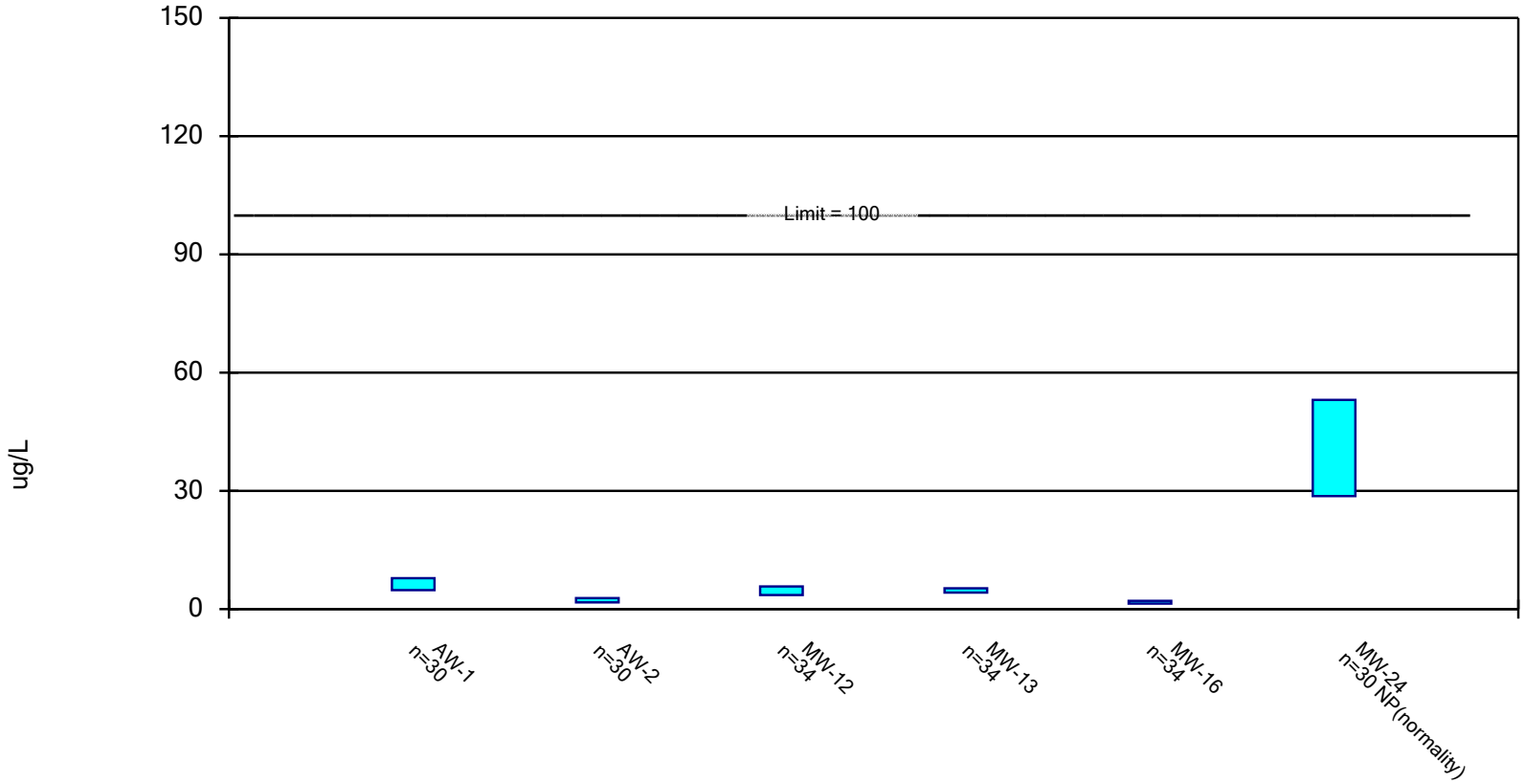


Constituent: Benzene Analysis Run 10/18/2024 3:15 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

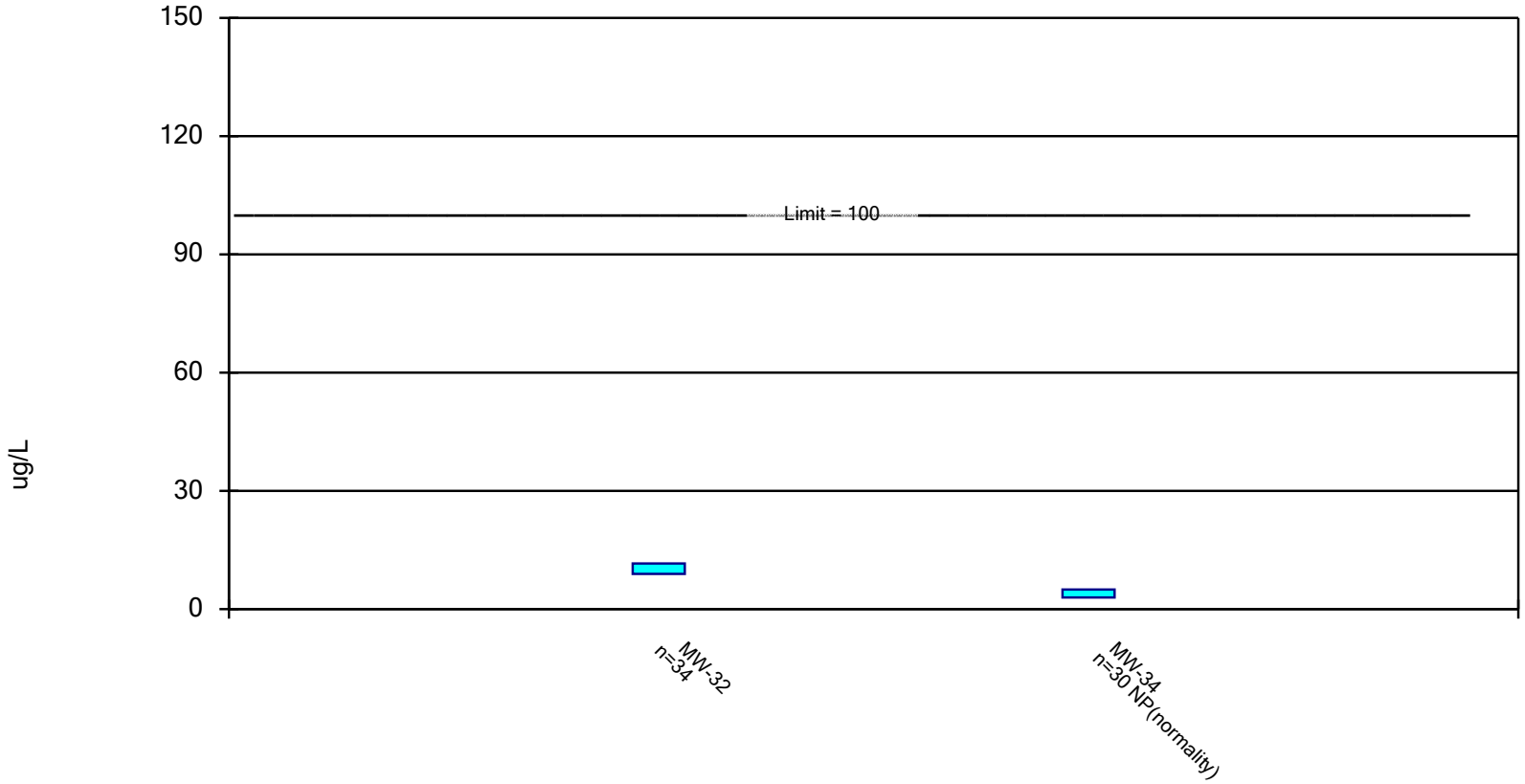


Constituent: Chlorobenzene Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

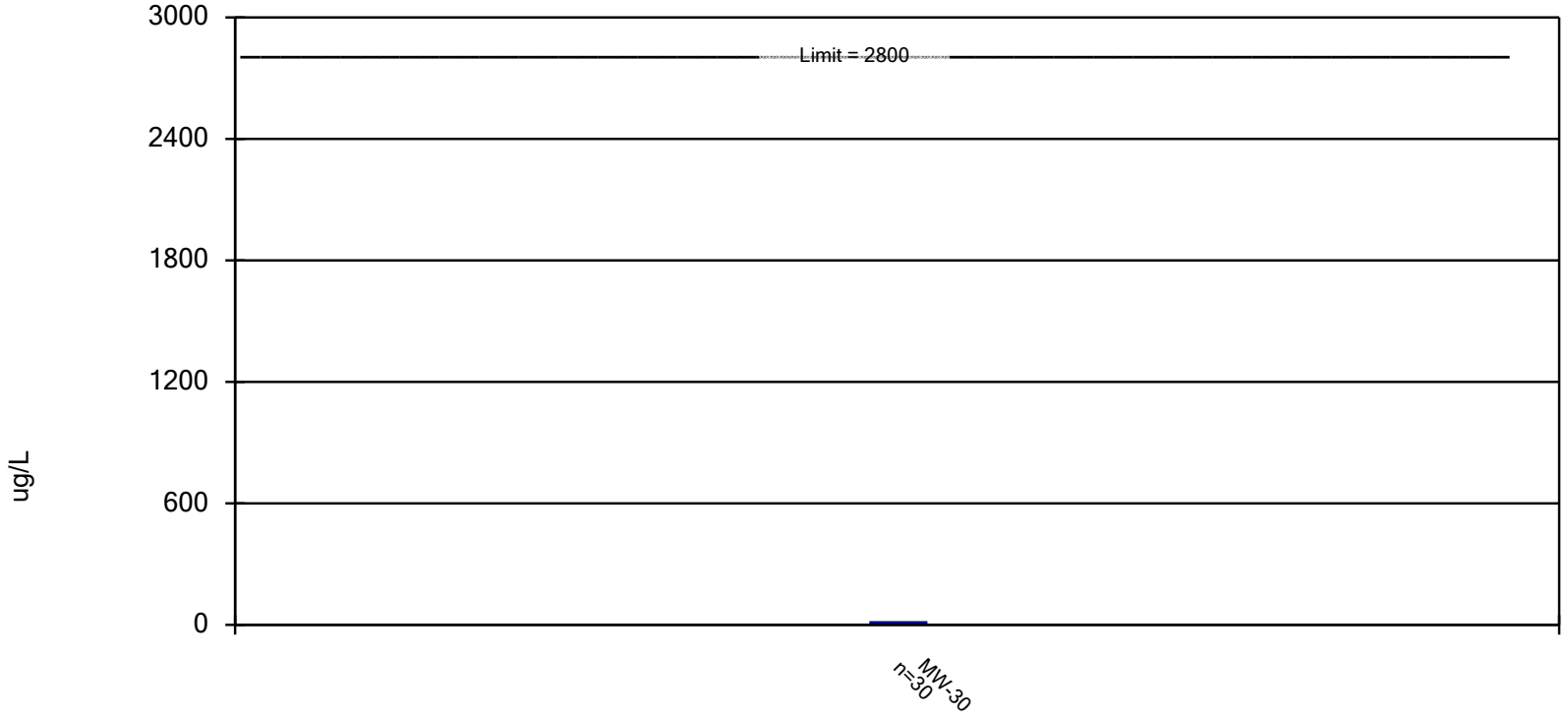


Constituent: Chlorobenzene Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

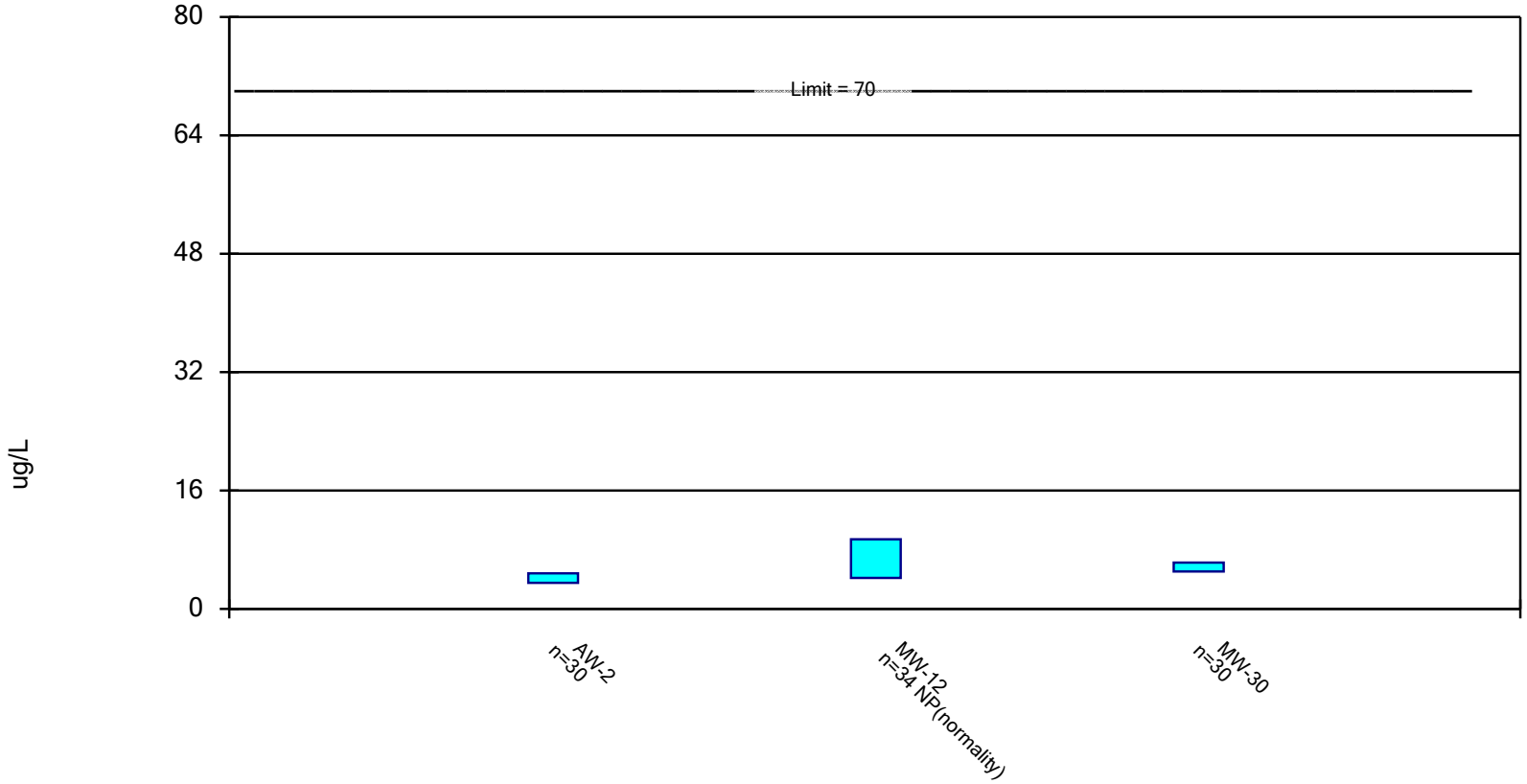


Constituent: Chloroethane Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

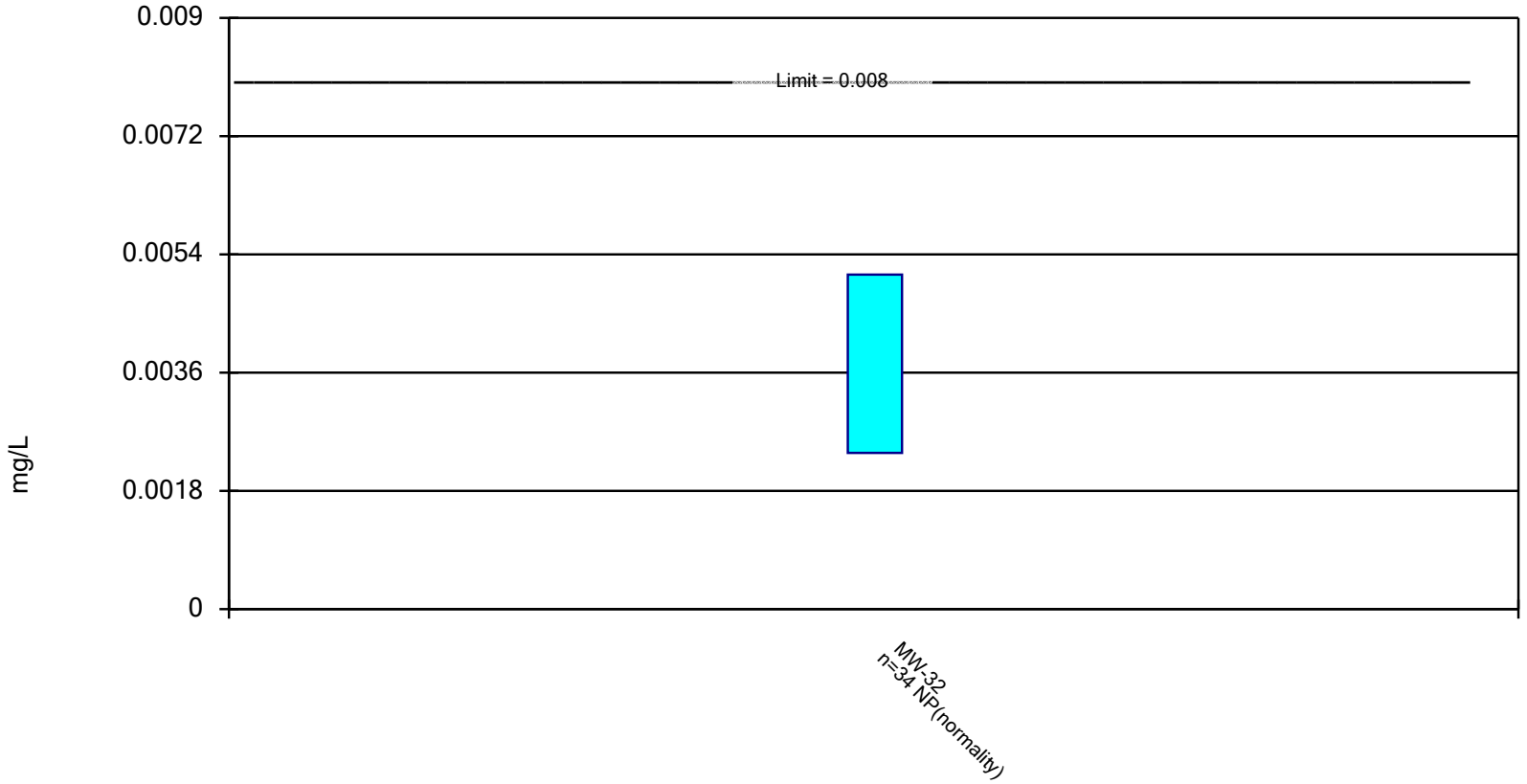


Constituent: cis-1,2-Dichloroethene Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01.

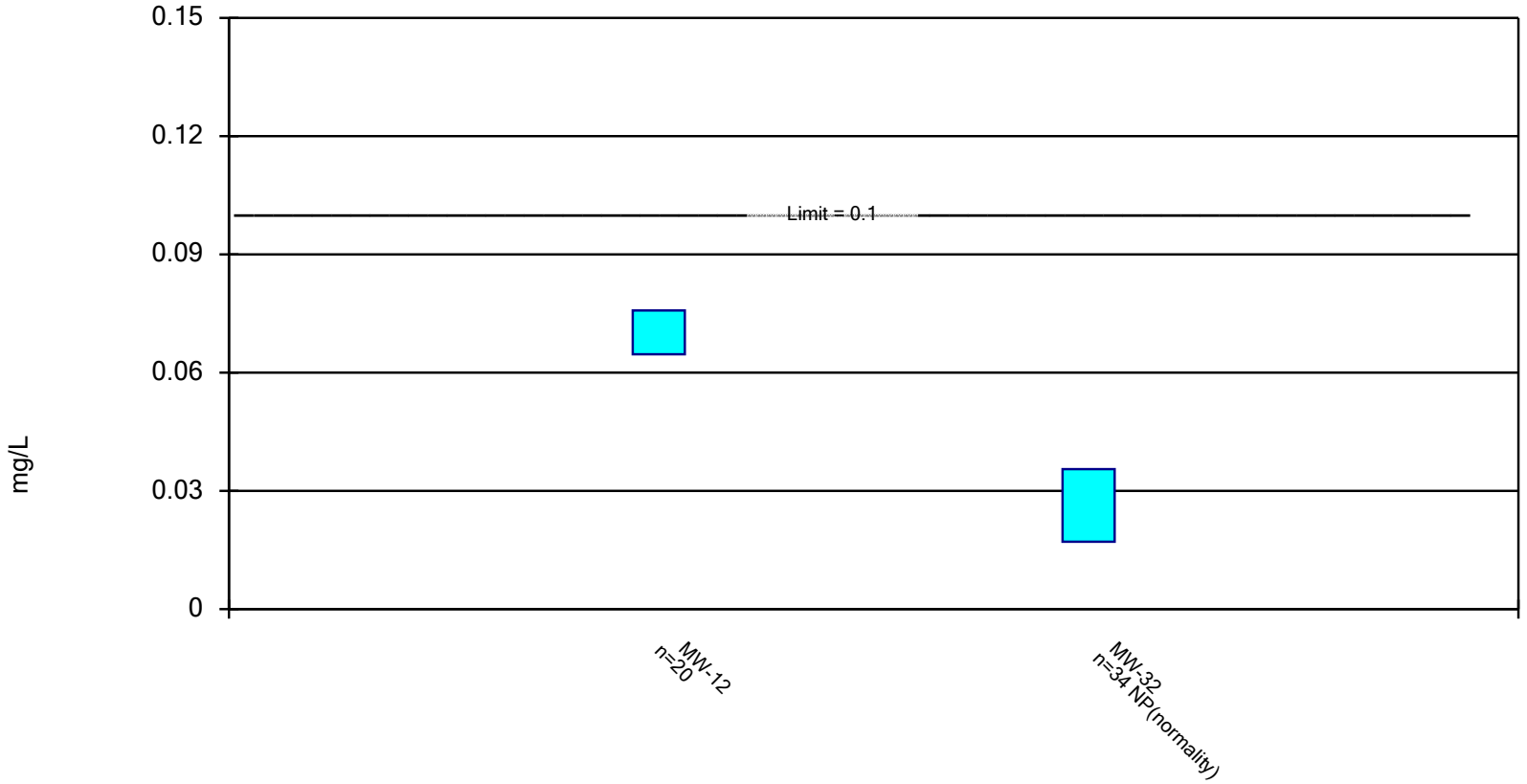


Constituent: Cobalt Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

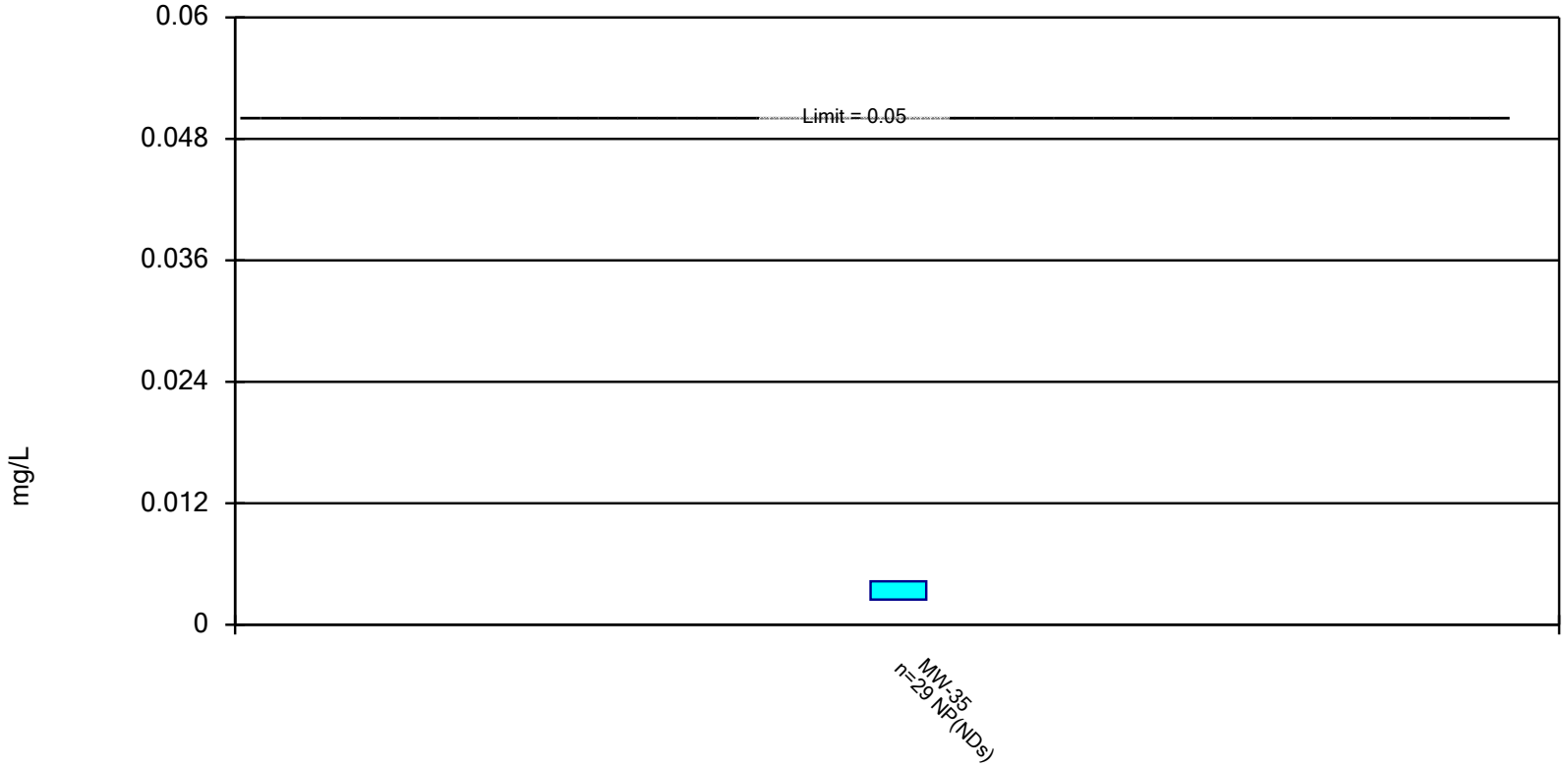


Constituent: Nickel Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01.

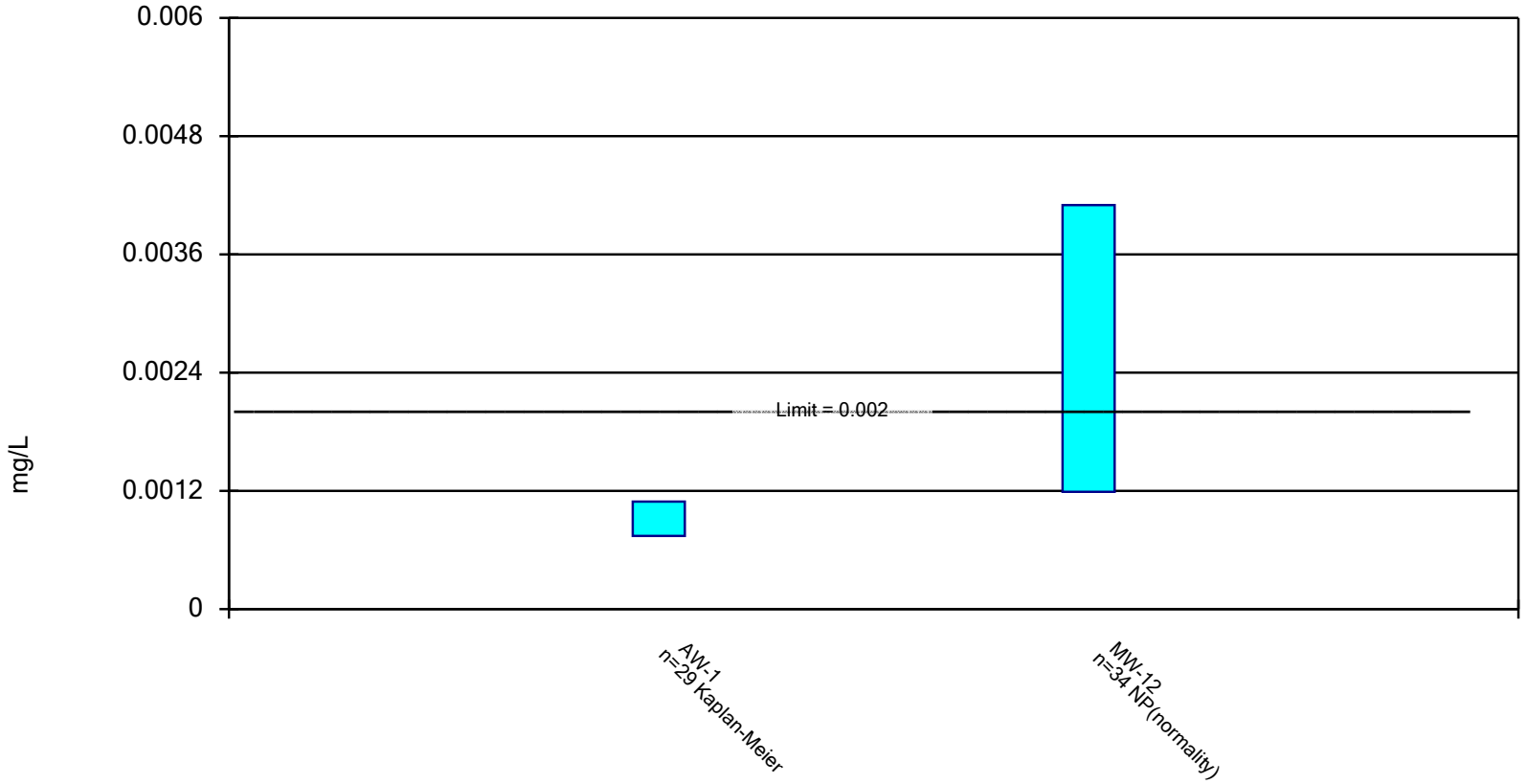


Constituent: Selenium Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

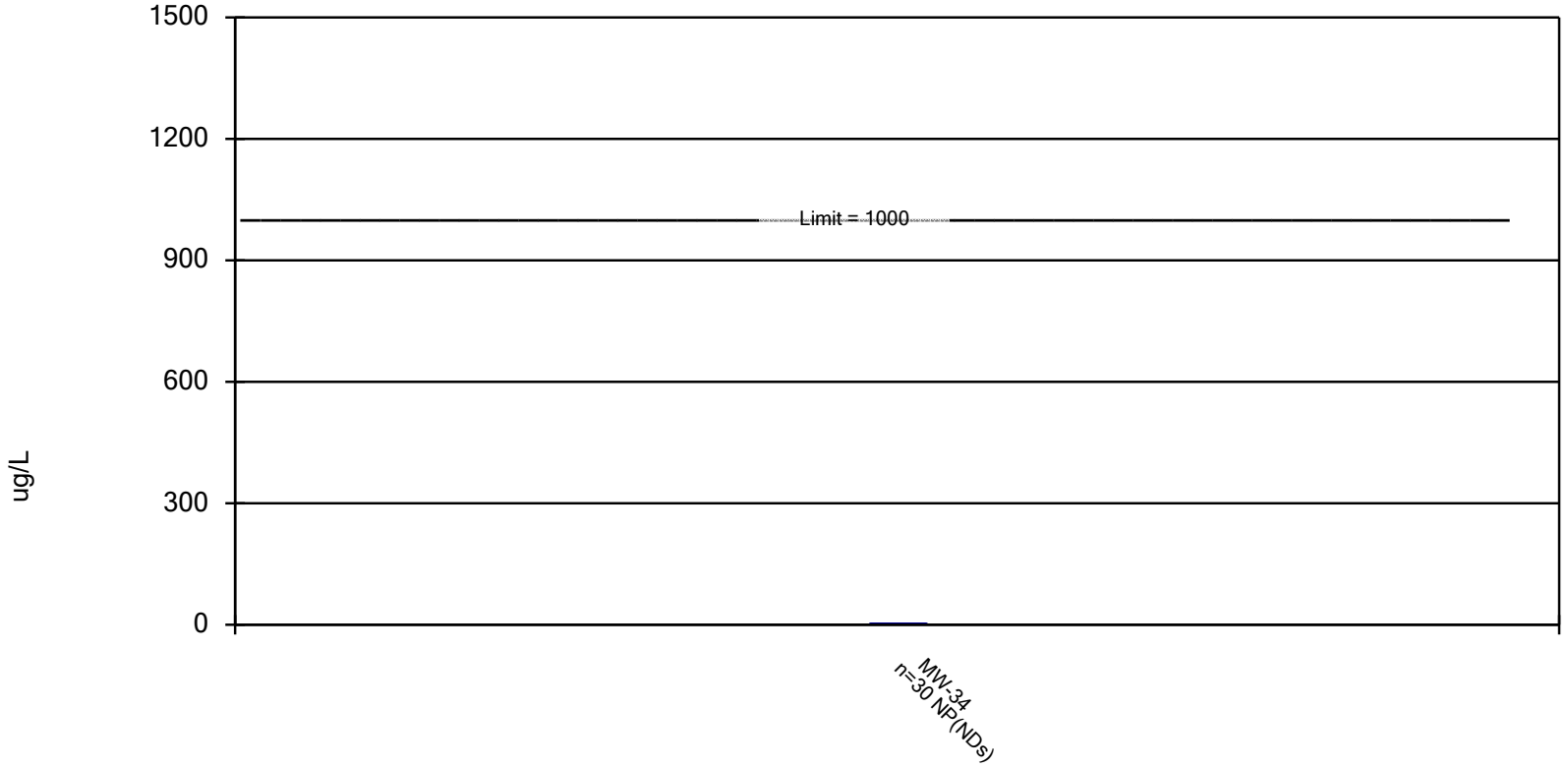


Constituent: Thallium Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01.

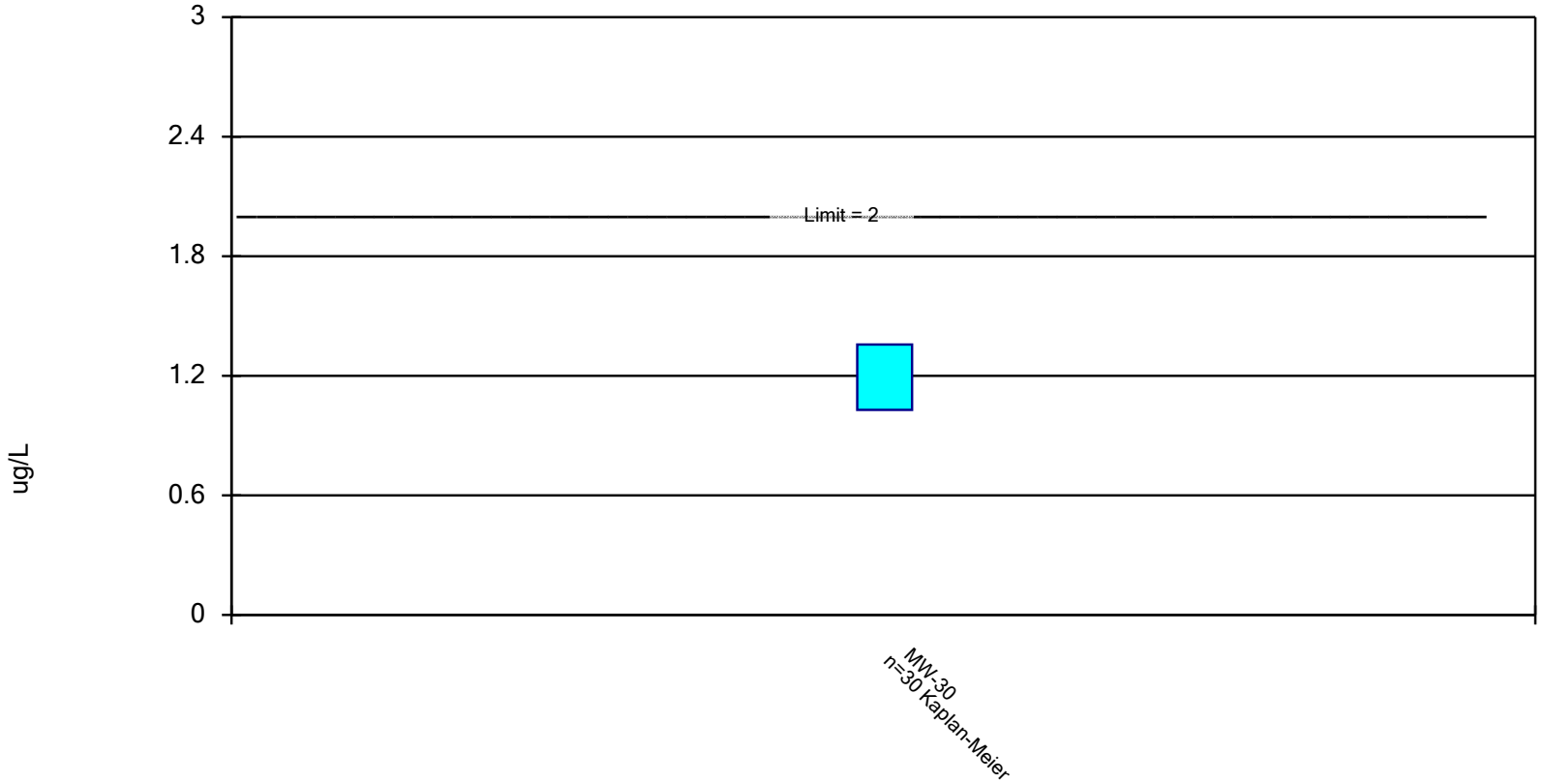


Constituent: Toluene Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

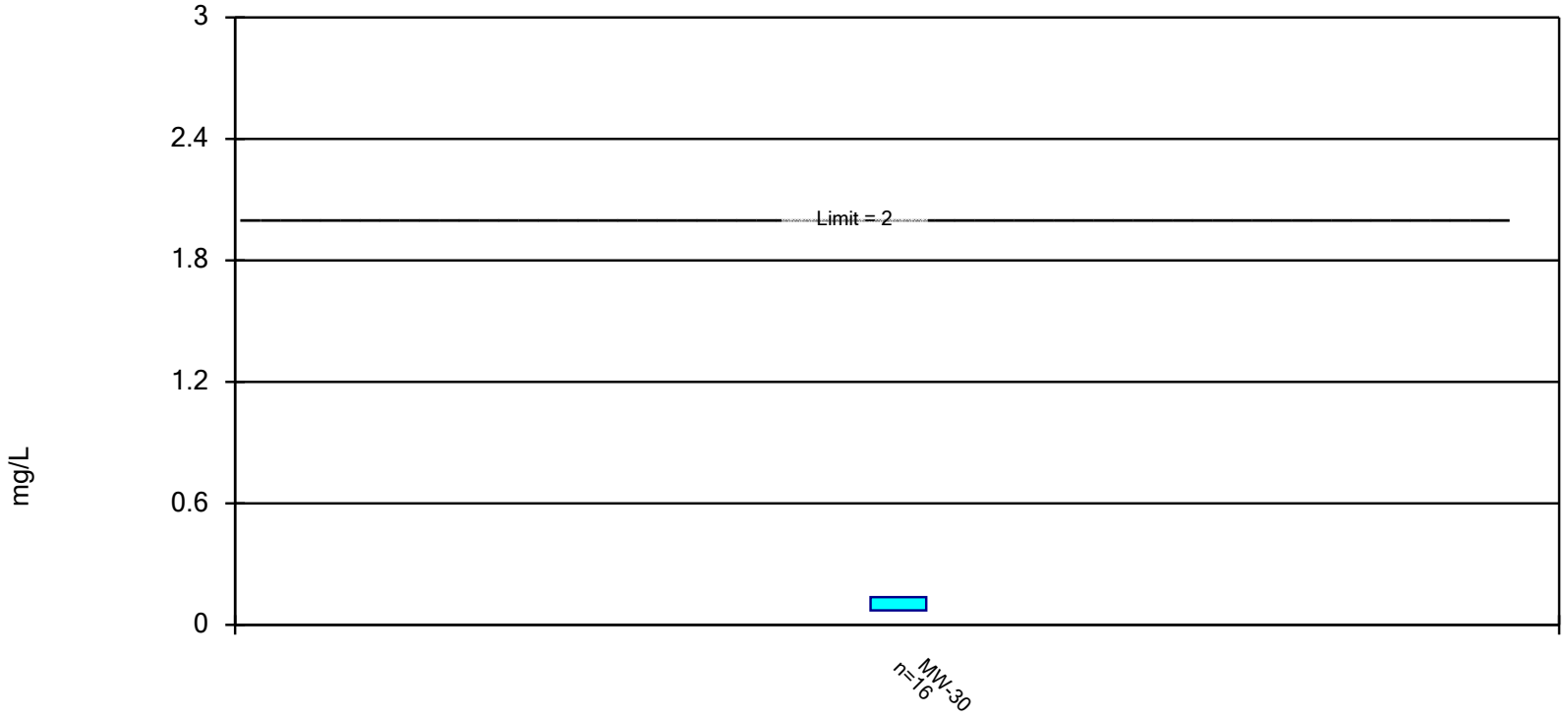


Constituent: Vinyl Chloride Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 10/18/2024 3:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Deeper Bedrock

Confidence Interval - Assessment Mode [1]

Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2]	Exceed	N	Mean	Standard Deviation	CV	a to Achieve 50% Power at R=1.5 [3,4]	a to Achieve 80% Power at R=2.0 [3,4]	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Delineation Monitoring Locations - Assessment Constituents																
1,1-Dichloroethane (ug/L)	MW-105B	4.8	2.8	140	No	21	3.8	1.8	0.5	<0.01	<0.01	5	None	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-109B	1.8	1.1	75	No	17	1.3	0.5	0.4	0.03	<0.01	18	None	No	0.03	NP (normality)
Arsenic (mg/L)	MW-105B	0.0011	0.0008	0.01	No	21	0.0018	0.0021	1.2	0.02	<0.01	48	None	No	0.02	NP (normality)
Barium (mg/L)	MW-107B	0.36	0.29	2	No	21	0.34	0.10	0.3	0.02	<0.01	0	None	No	0.02	NP (normality)
Barium (mg/L)	MW-108B	0.21	0.17	2	No	13	0.19	0.02	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-109B	0.72	0.66	2	No	17	0.69	0.04	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-109B	7.3	6.4	100	No	17	6.9	0.7	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-102B	0.0009	0.0007	0.0021	No	15	0.0008	0.0002	0.2	<0.01	<0.01	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-107B	0.0030	0.0019	0.0021	No	17	0.0026	0.0015	0.6	0.03	<0.01	0	None	No	0.03	NP (normality)
Nickel (mg/L)	MW-105B	0.012	0.010	0.1	No	21	0.011	0.003	0.2	0.02	<0.01	0	None	No	0.02	NP (normality)
Nickel (mg/L)	MW-107B	0.016	0.011	0.1	No	21	0.014	0.006	0.4	0.02	<0.01	5	None	No	0.02	NP (normality)
Nickel (mg/L)	MW-109B	0.040	0.035	0.1	No	17	0.038	0.004	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Thallium (mg/L)	MW-107B	0.0032	0.0019	0.002	No	21	0.0025	0.0012	0.5	<0.01	<0.01	5	None	No	0.01	Param.
Assessment Monitoring Locations																
1,1-Dichloroethane (ug/L)	MW-11	1.49	1.19	140	No	30	1.34	0.33	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-18	0.0018	0.0009	0.01	No	31	0.0015	0.0018	1.2	<0.01	<0.01	52	None	No	0.01	NP (NDs)
Barium (mg/L)	MW-25	0.22	0.18	2	No	30	0.20	0.04	0.2	<0.01	<0.01	0	None	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-25	0.72	0.50	70	No	30	0.77	0.77	1.0	<0.01	<0.01	47	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-11	0.0009	0.0007	0.0021	No	17	0.0008	0.0002	0.2	0.03	<0.01	0	None	No	0.03	NP (normality)
Cobalt (mg/L)	MW-15	0.0029	0.0015	0.0021	No	18	0.0022	0.0011	0.5	<0.01	<0.01	0	None	No	0.01	Param.
Nickel (mg/L)	MW-15	0.009	0.006	0.1	No	18	0.007	0.003	0.4	<0.01	<0.01	6	None	No	0.01	Param.
Nickel (mg/L)	MW-19	0.012	0.008	0.1	No	18	0.010	0.003	0.3	<0.01	<0.01	0	None	No	0.01	Param.
Corrective Action Monitoring Locations - Assessment Constituents																
1,1-Dichloroethane (ug/L)	AW-6	5.1	2.1	140	No	30	5.3	5.6	1.1	<0.01	<0.01	7	None	No	0.01	NP (normality)
1,1-Dichloroethane (ug/L)	MW-14	11.4	1.7	140	No	34	7.2	6.5	0.9	<0.01	<0.01	6	None	No	0.01	NP (normality)
1,1-Dichloroethane (ug/L)	MW-22	6.5	1.7	140	No	30	4.6	4.1	0.9	<0.01	<0.01	3	None	No	0.01	NP (normality)
1,2-Dichlorobenzene (ug/L)	MW-14	1.7	1.2	600	No	34	1.5	0.5	0.4	<0.01	<0.01	12	None	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-14	8.2	5.1	75	No	34	6.6	3.6	0.5	<0.01	<0.01	15	None	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-22	1.5	1.1	75	No	30	1.2	0.6	0.5	<0.01	<0.01	30	Kaplan-Meier	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-33	0.9	0.5	75	No	34	0.7	0.2	0.3	<0.01	<0.01	38	None	No	0.01	NP (normality)
1,4-Dichlorobenzene (ug/L)	MW-36	2.5	1.8	75	No	30	2.1	0.9	0.4	<0.01	<0.01	10	None	No	0.01	Param.
Barium (mg/L)	AW-6	0.13	0.10	2	No	30	0.11	0.03	0.3	<0.01	<0.01	3	None	No	0.01	Param.
Barium (mg/L)	CRL-9	0.54	0.44	2	No	30	0.53	0.13	0.3	<0.01	<0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-14	0.75	0.14	2	No	34	0.53	0.39	0.7	<0.01	<0.01	3	None	No	0.01	NP (normality)
Barium (mg/L)	MW-22	0.68	0.61	2	No	30	0.65	0.07	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-33	0.55	0.45	2	No	34	0.50	0.12	0.2	<0.01	<0.01	0	None	No	0.01	Param.
Barium (mg/L)	MW-36	0.65	0.60	2	No	30	0.64	0.07	0.1	<0.01	<0.01	0	None	No	0.01	NP (normality)
Benzene (ug/L)	CRL-9	2.42	1.51	5	No	30	1.97	1.01	0.5	<0.01	<0.01	0	None	No	0.01	Param.
Benzene (ug/L)	MW-14	3.24	2.25	5	No	34	2.75	1.18	0.4	<0.01	<0.01	3	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-14	3.7	2.8	100	No	34	3.2	1.1	0.3	<0.01	<0.01	9	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-22	4.1	3.1	100	No	30	3.4	1.0	0.3	<0.01	<0.01	7	None	No	0.01	NP (normality)
Chlorobenzene (ug/L)	MW-33	4.9	3.6	100	No	34	4.3	1.6	0.4	<0.01	<0.01	3	None	No	0.01	Param.
Chlorobenzene (ug/L)	MW-36	9.1	6.5	100	No	30	7.8	2.9	0.4	<0.01	<0.01	3	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.0013	0.0012	0.0021	No	21	0.0012	0.0002	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-36	0.0017	0.0013	0.0021	No	17	0.0015	0.0003	0.2	<0.01	<0.01	0	None	No	0.01	Param.

Deeper Bedrock

Confidence Interval - Assessment Mode [1]

Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2]	Exceed	N	Mean	Standard Deviation	CV	a to Achieve 50% Power at R=1.5 [3,4]	a to Achieve 80% Power at R=2.0 [3,4]	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Nickel (mg/L)	AW-6	0.029	0.026	0.1	No	17	0.027	0.002	0.1	<0.01	<0.01	0	None	No	0.01	Param.
Nickel (mg/L)	CRL-9	0.028	0.018	0.1	No	17	0.021	0.006	0.3	0.03	<0.01	0	None	No	0.03	NP (normality)
Nickel (mg/L)	MW-14	0.019	0.014	0.1	No	21	0.019	0.011	0.6	0.02	<0.01	0	None	No	0.02	NP (normality)
Nickel (mg/L)	MW-22	0.036	0.029	0.1	No	17	0.033	0.006	0.2	<0.01	<0.01	0	None	No	0.01	Param.
Nickel (mg/L)	MW-36	0.009	0.007	0.1	No	17	0.008	0.002	0.2	0.03	<0.01	0	None	No	0.03	NP (normality)

[1] Under assessment mode, an SSL is indicated when the lower confidence limit exceeds the groundwater protection standard (compliance limit).

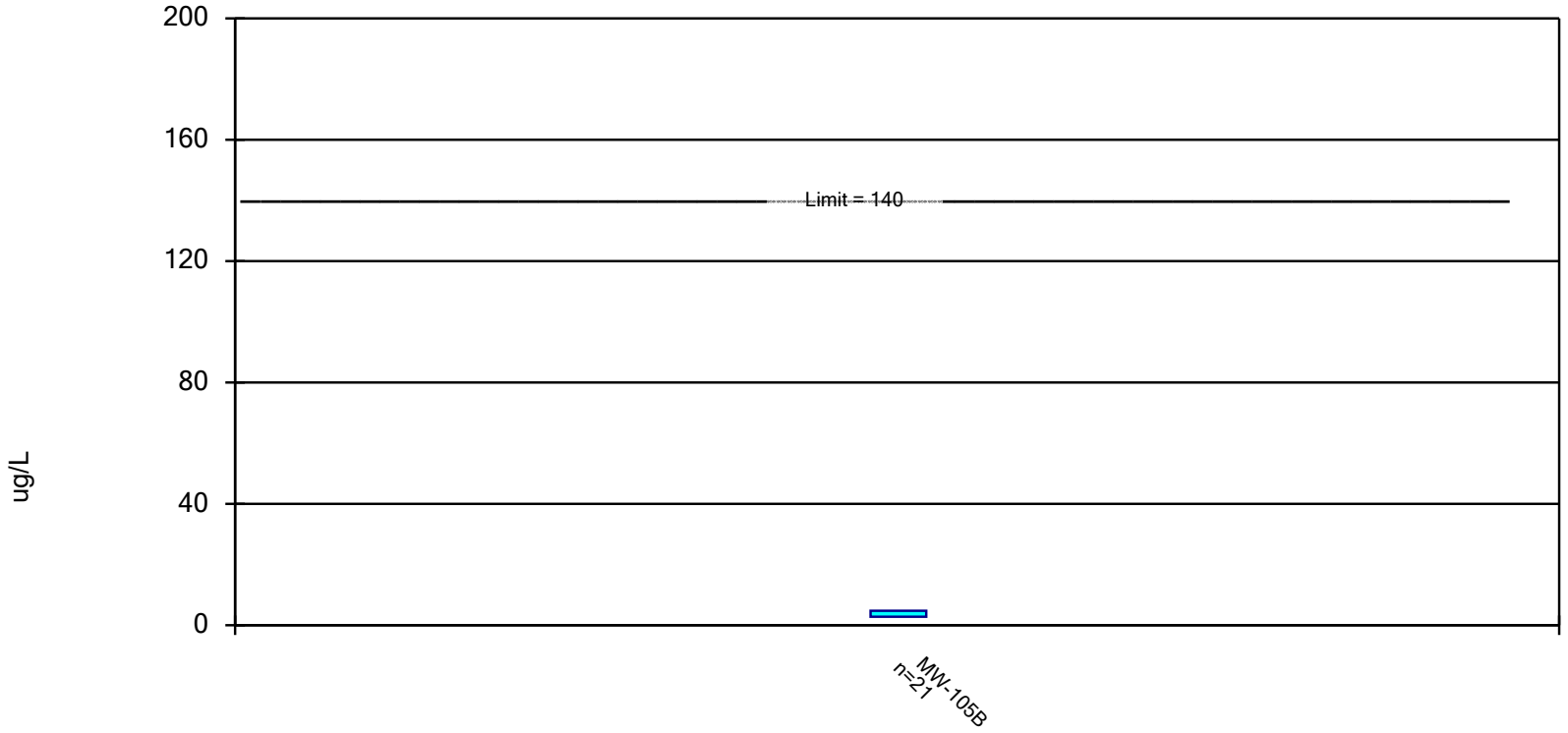
[2] Value is the 40 CFR Part 141 Safe Drinking Water Act MCL or the IAC 567 Chapter 137 Statewide Standard for a Protected Groundwater Source.

[3] For parametric confidence intervals: Except where otherwise indicated, based on Unified Guidance Equation 22.2, i.e., $\alpha \sim 1 - F_{T,n-1}\left(\frac{(R-1)\sqrt{n}}{R \cdot \widehat{CV}} - t_{1-\beta,n-1}\right)$
where R is the desired risk ratio, n is the sample size, CV is the estimated sample coefficient of variation, $t_{1-b,n-1}$ is the (1−b) Student's t-quantile with (n−1) degrees of freedom, and F is the cumulative (central) Student's t-distribution function.

[4] For non-parametric confidence intervals: Based on Unified Guidance Equation 22.1, i.e., $1-\beta = G_{T,n-1}\left(t_{1-\alpha,n-1} \middle| \Delta = \sqrt{n}(R-1)\right)$
where R is the desired risk ratio, $t_{1-a,n-1}$ is the (1−a) Student's t-quantile with (n−1) degrees of freedom and G represents the cumulative non-central t-distribution with (n−1) degrees of freedom and noncentrality parameter D.

Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

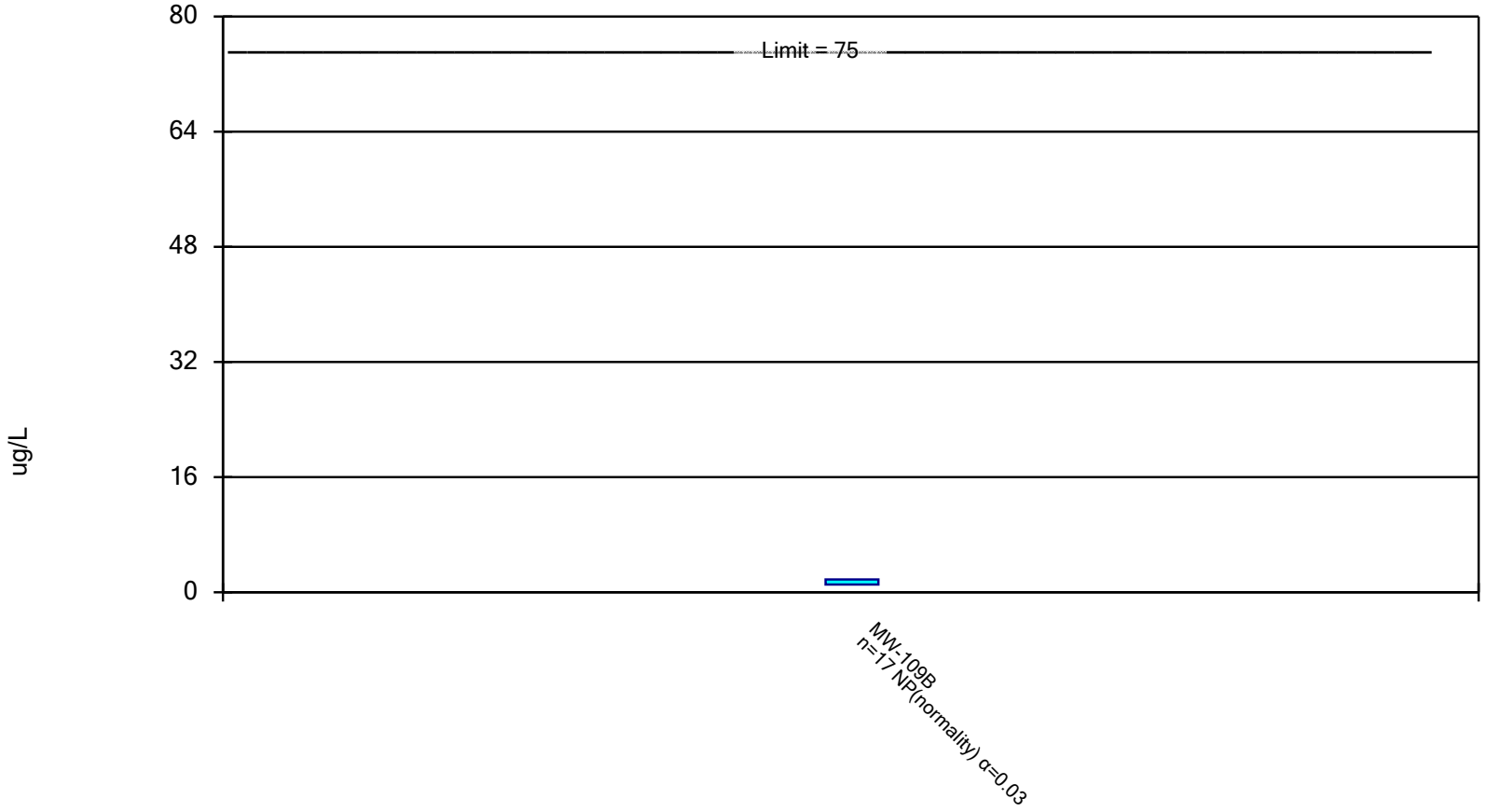


Constituent: 1,1-Dichloroethane Analysis Run 10/19/2024 9:34 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded.

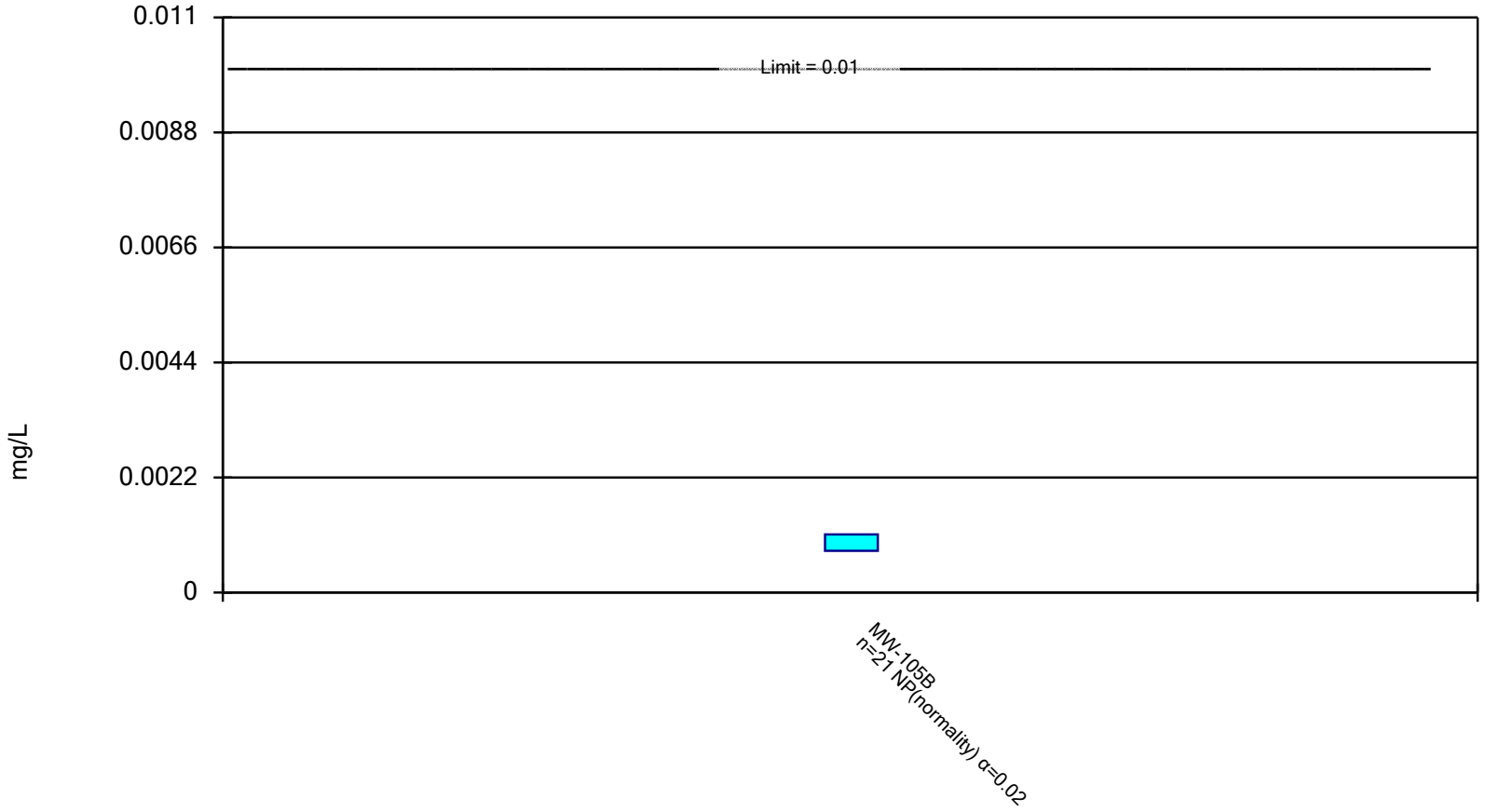


Constituent: 1,4-Dichlorobenzene Analysis Run 10/19/2024 9:46 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded.

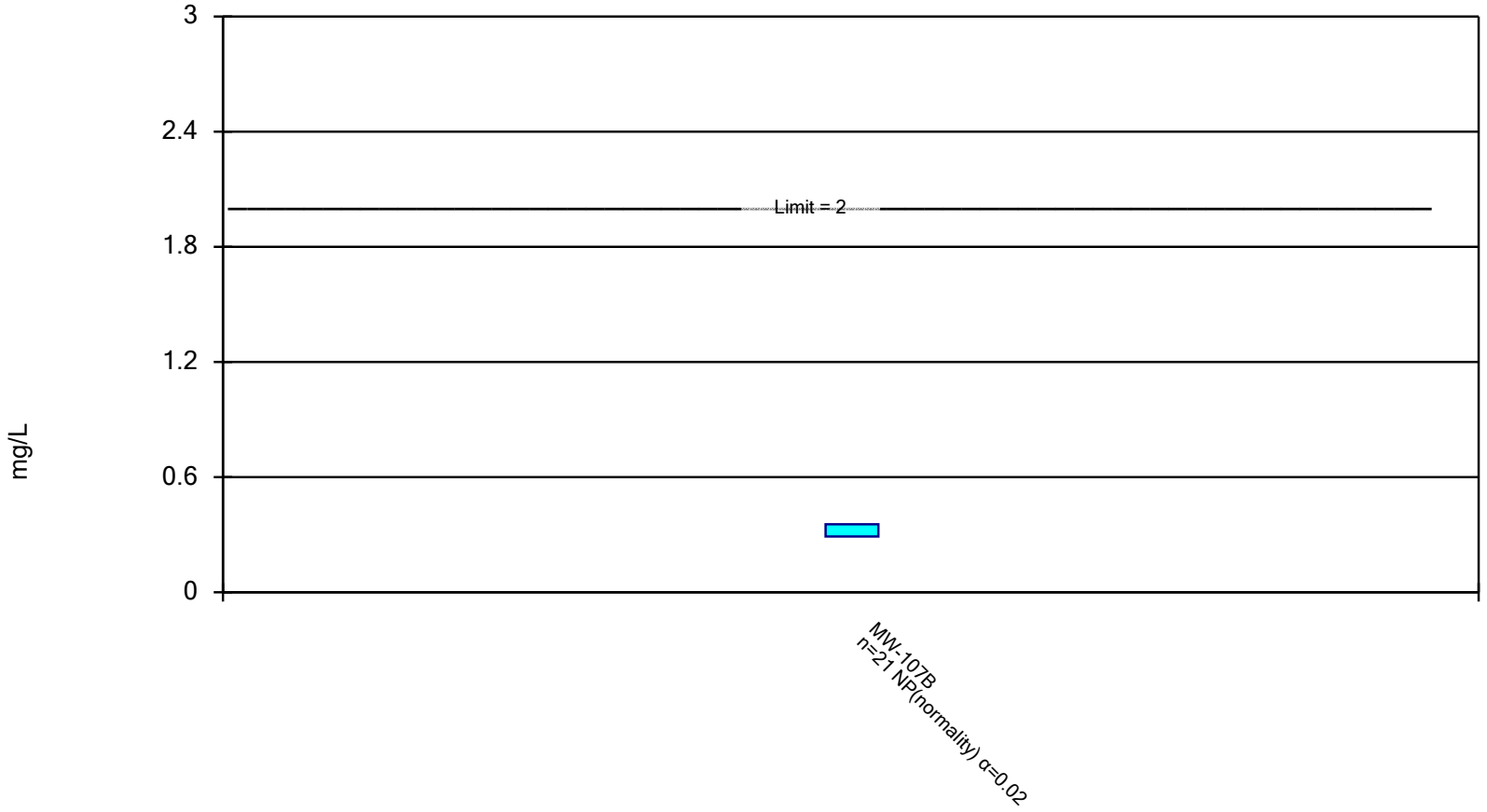


Constituent: Arsenic Analysis Run 10/19/2024 9:48 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded.

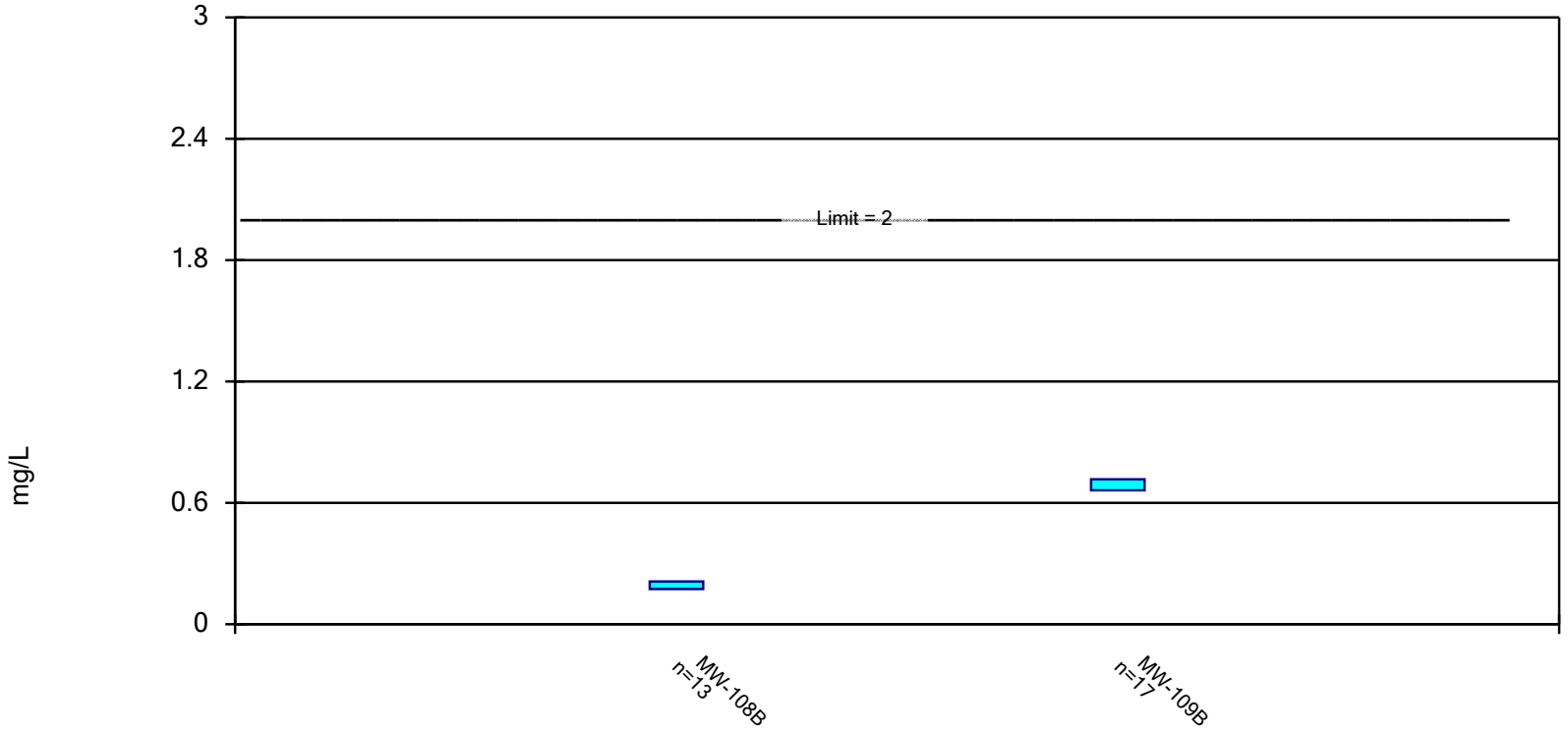


Constituent: Barium Analysis Run 10/19/2024 9:50 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

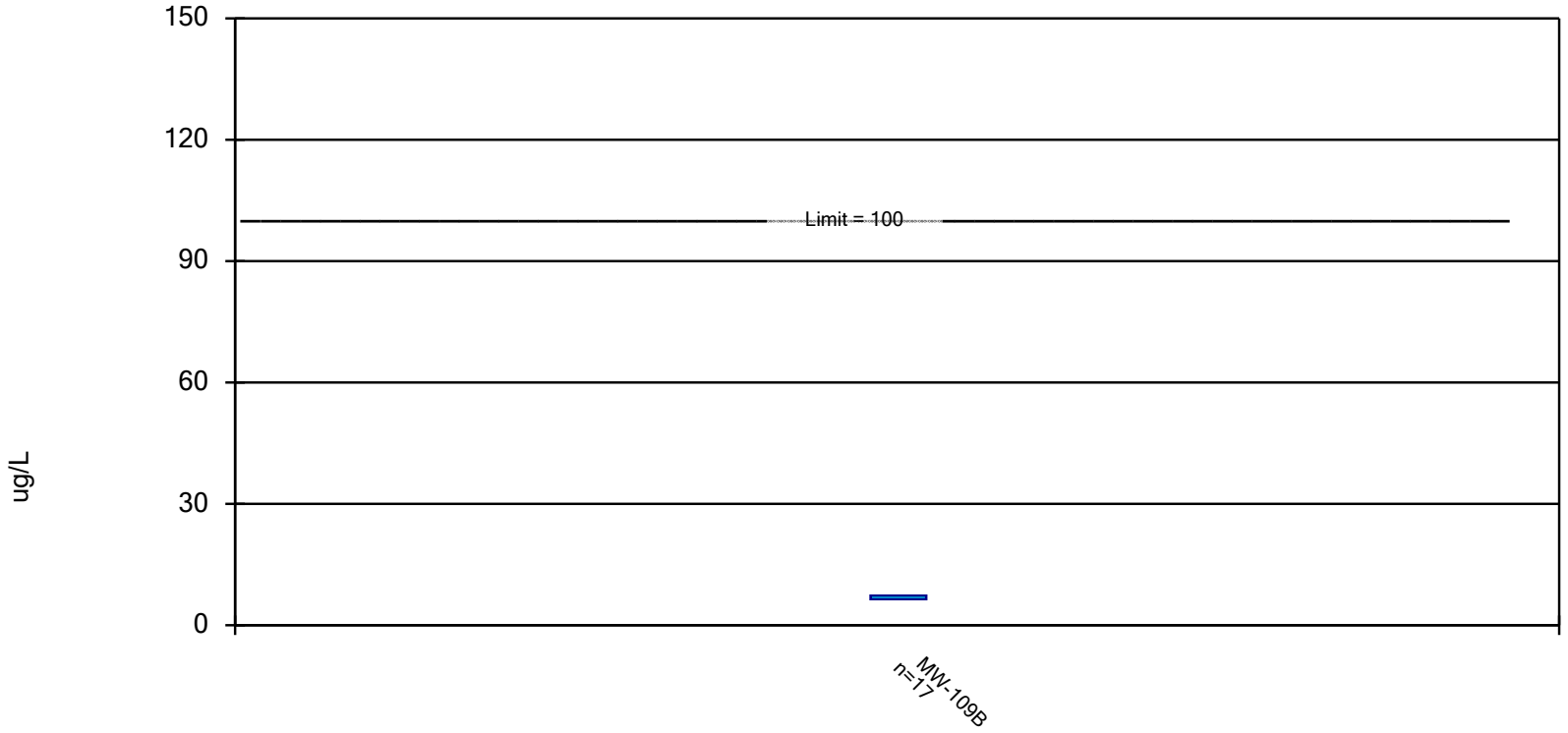


Constituent: Barium Analysis Run 10/19/2024 9:53 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

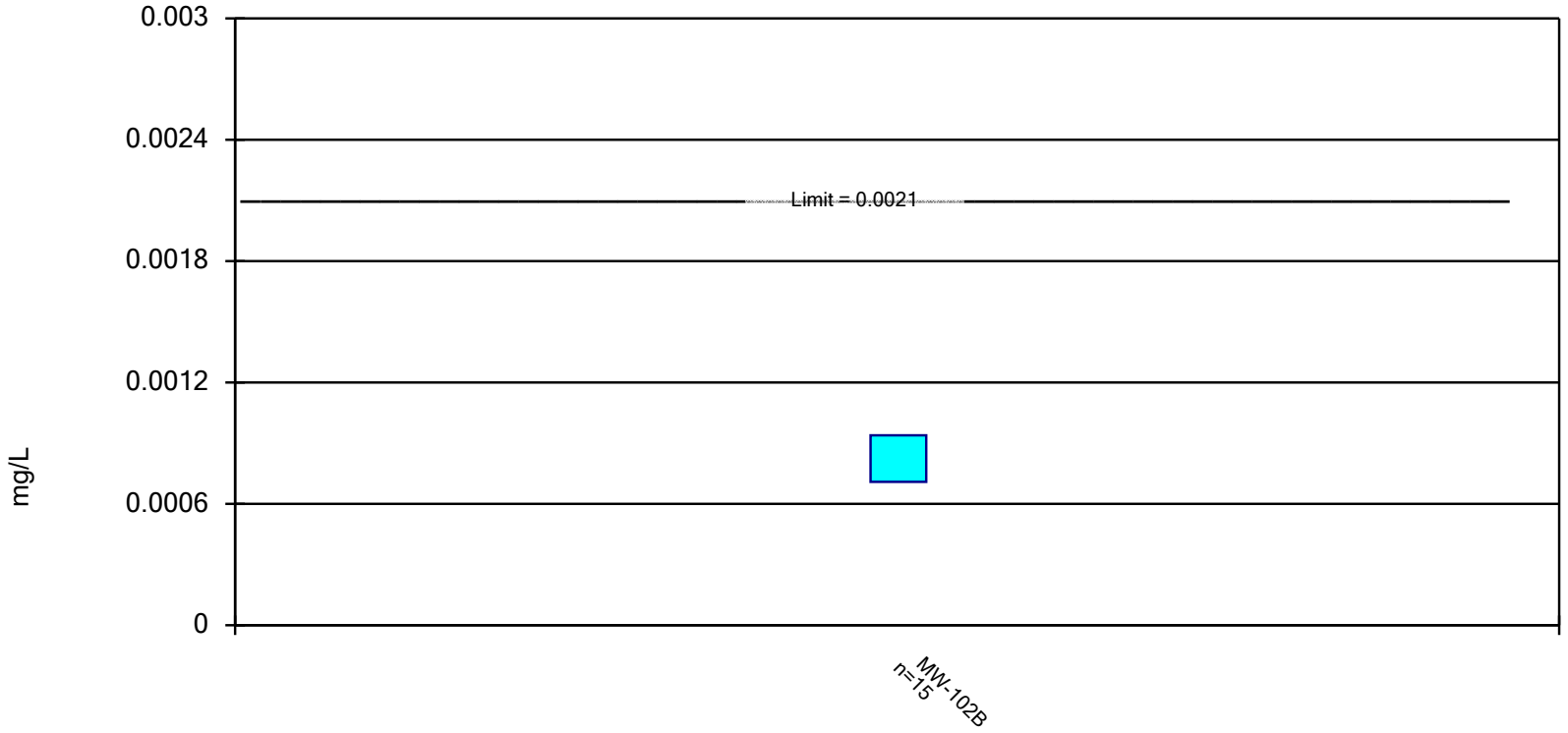


Constituent: Chlorobenzene Analysis Run 10/19/2024 9:34 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

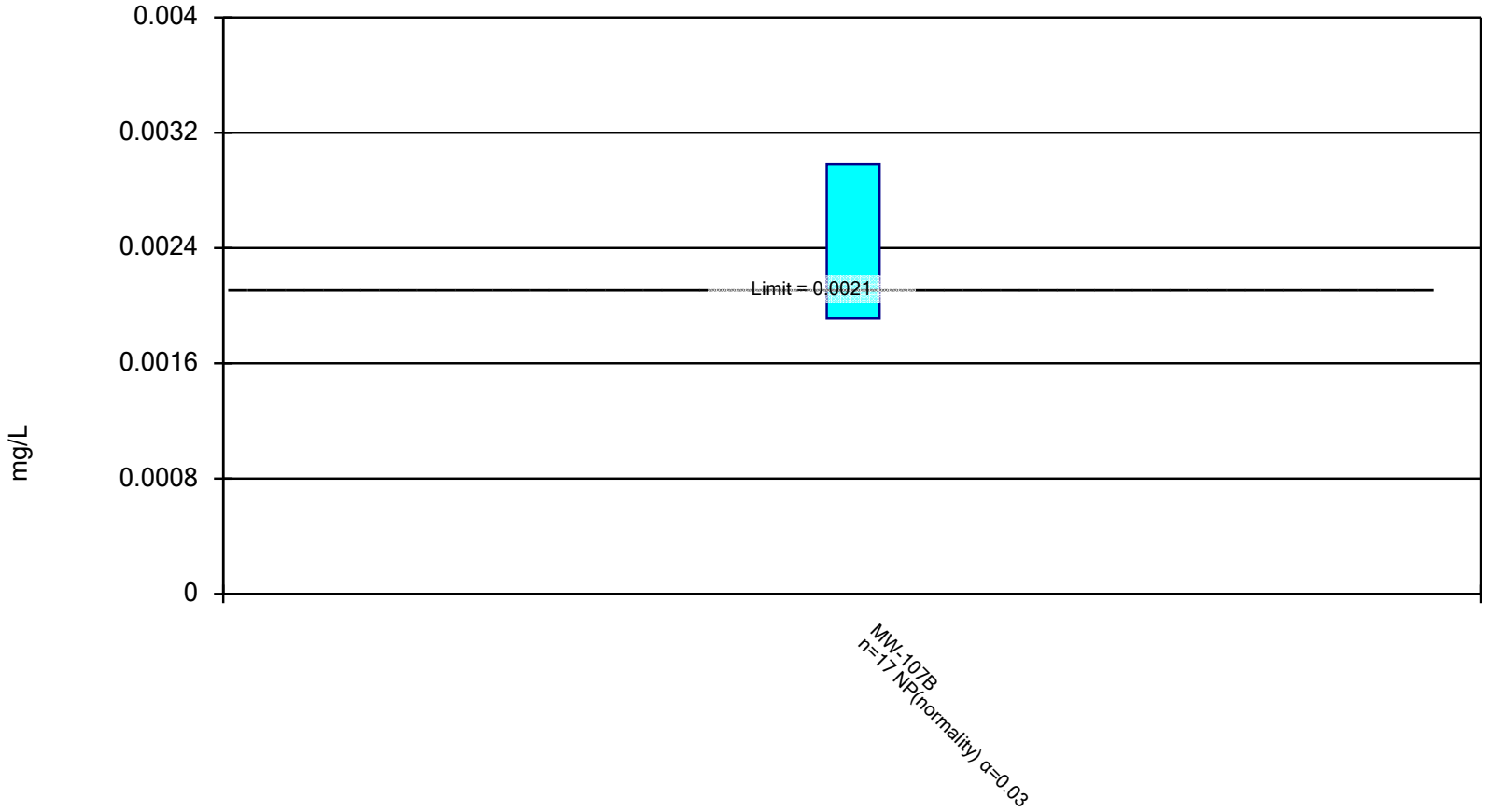


Constituent: Cobalt Analysis Run 10/19/2024 9:54 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded.

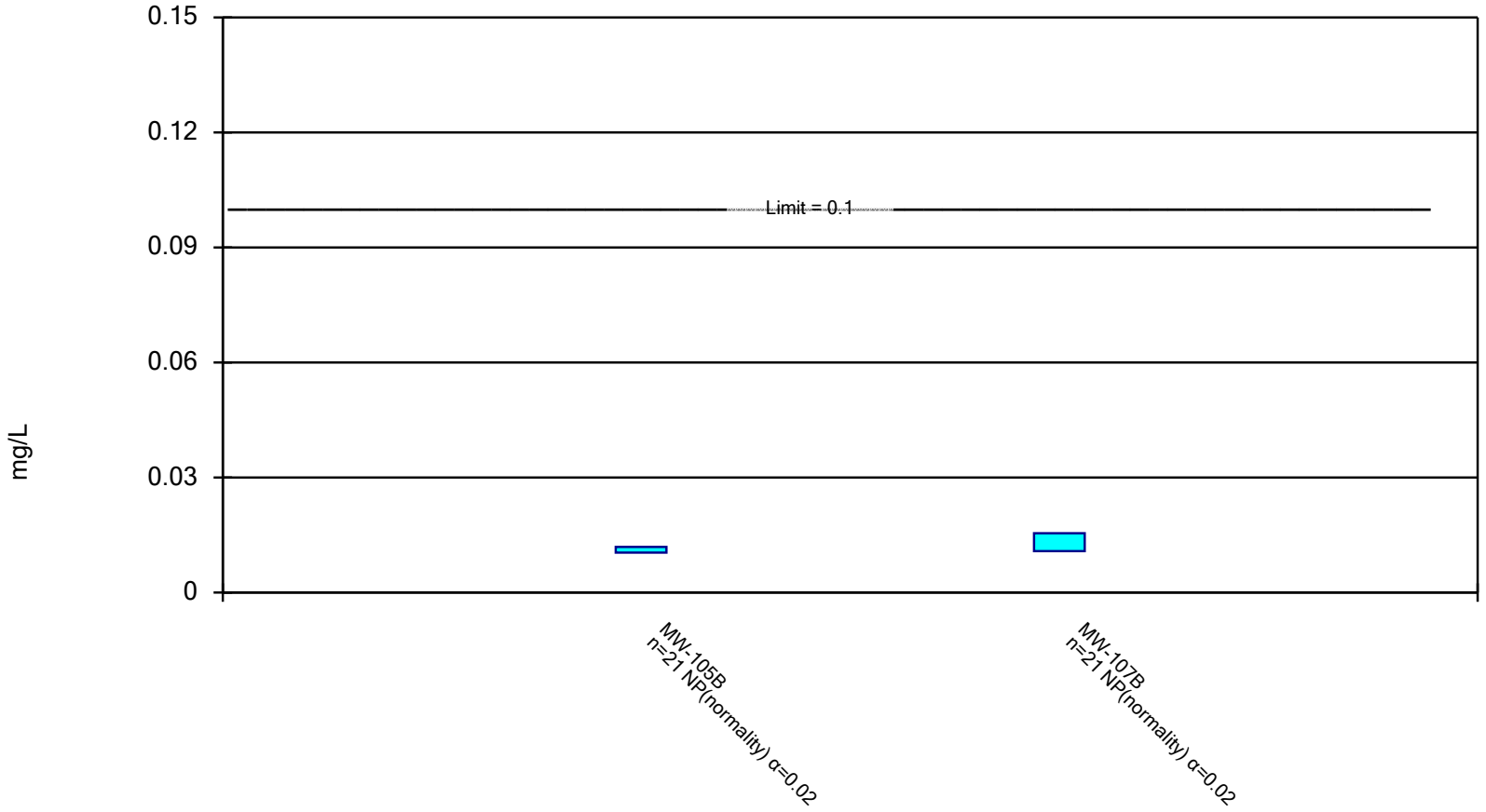


Constituent: Cobalt Analysis Run 10/19/2024 9:57 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded.

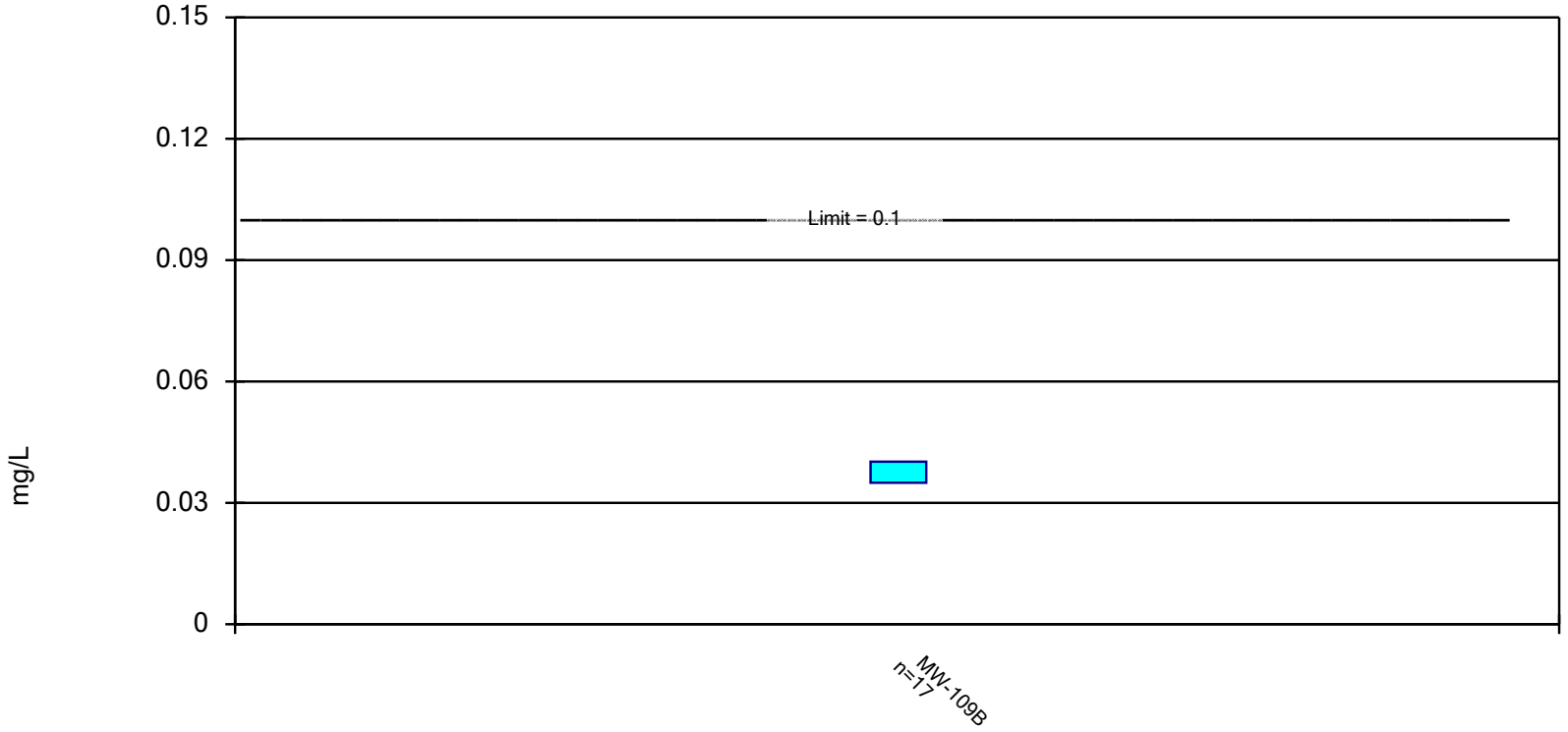


Constituent: Nickel Analysis Run 10/19/2024 9:59 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

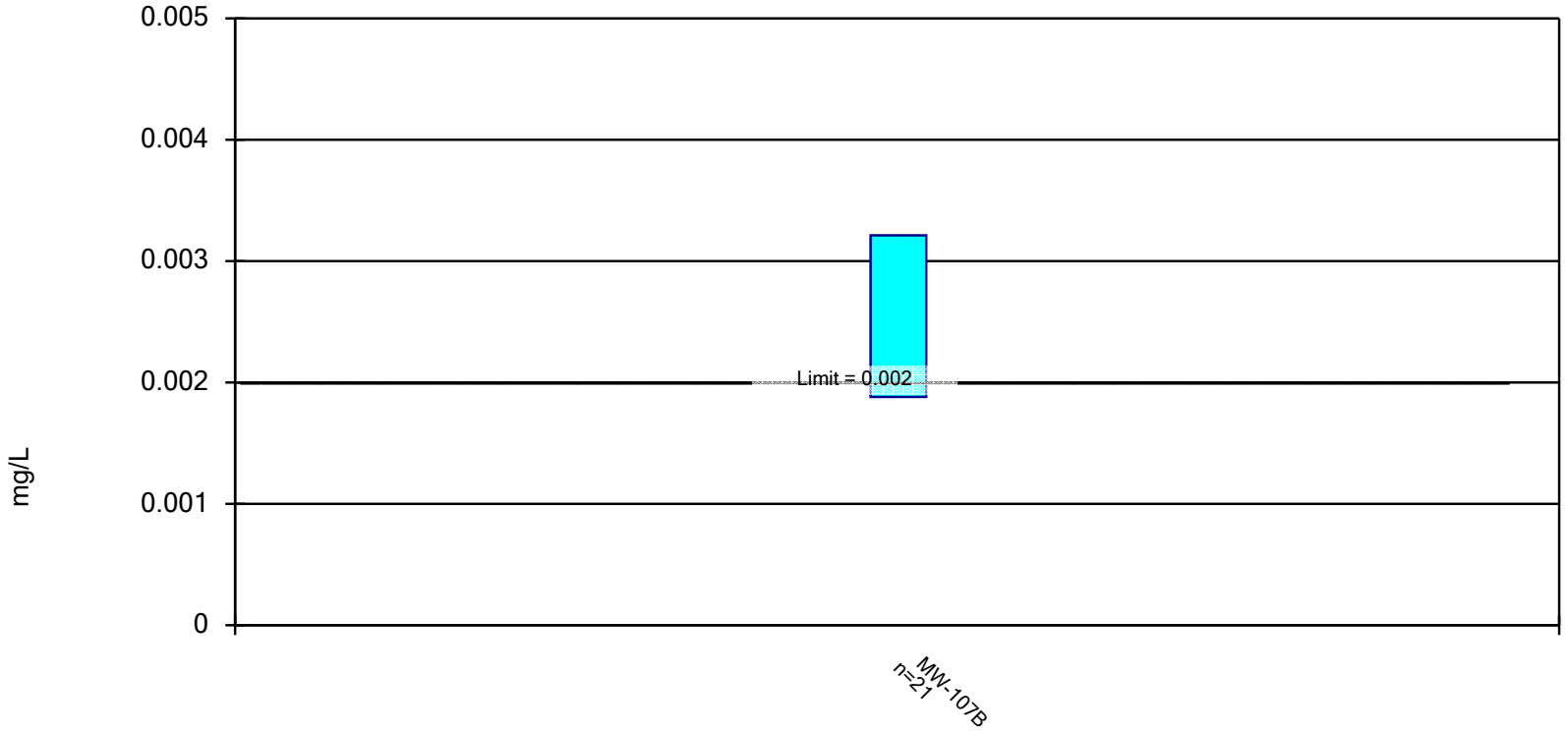


Constituent: Nickel Analysis Run 10/19/2024 10:01 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Delineation Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

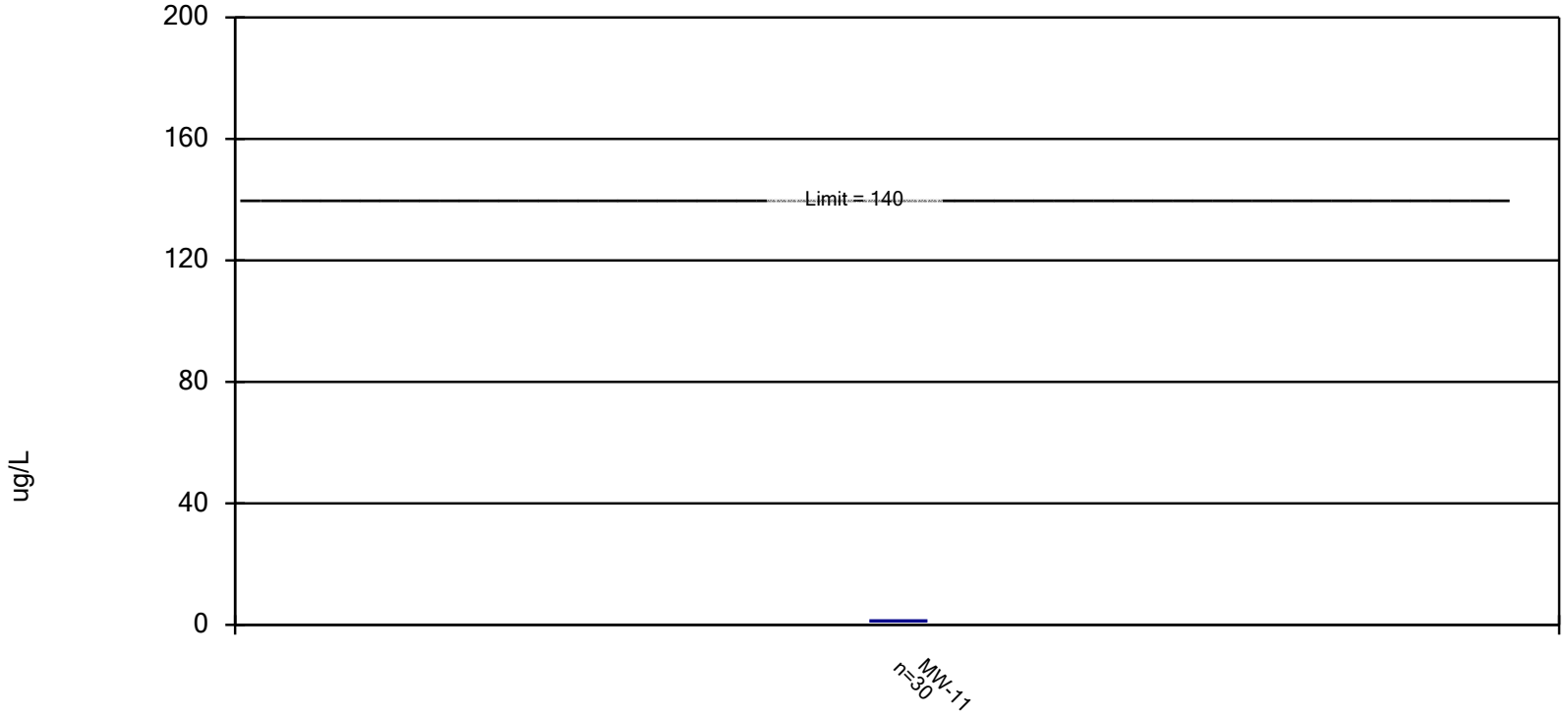


Constituent: Thallium Analysis Run 10/19/2024 9:34 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

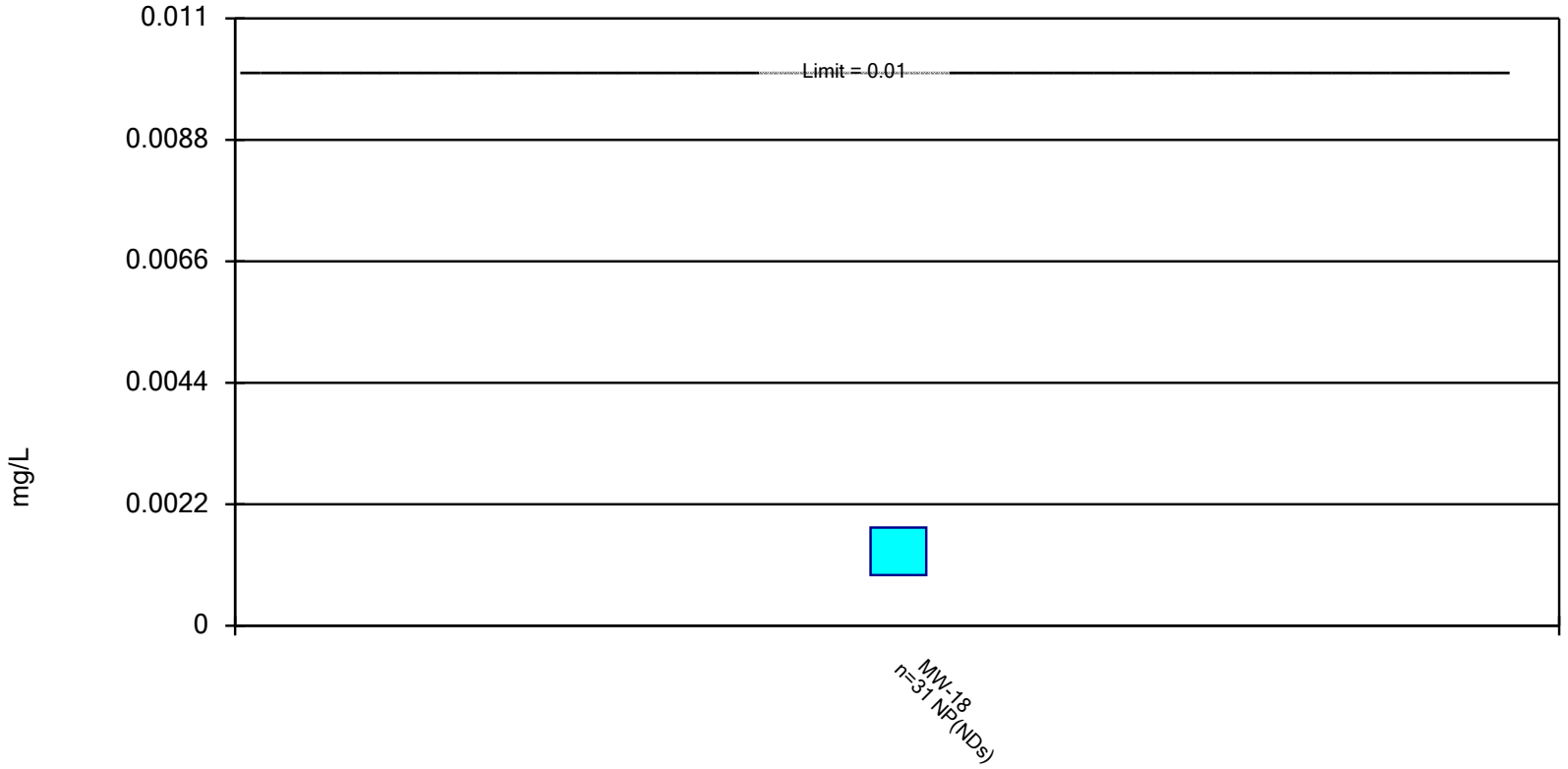


Constituent: 1,1-Dichloroethane Analysis Run 10/19/2024 10:29 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01.

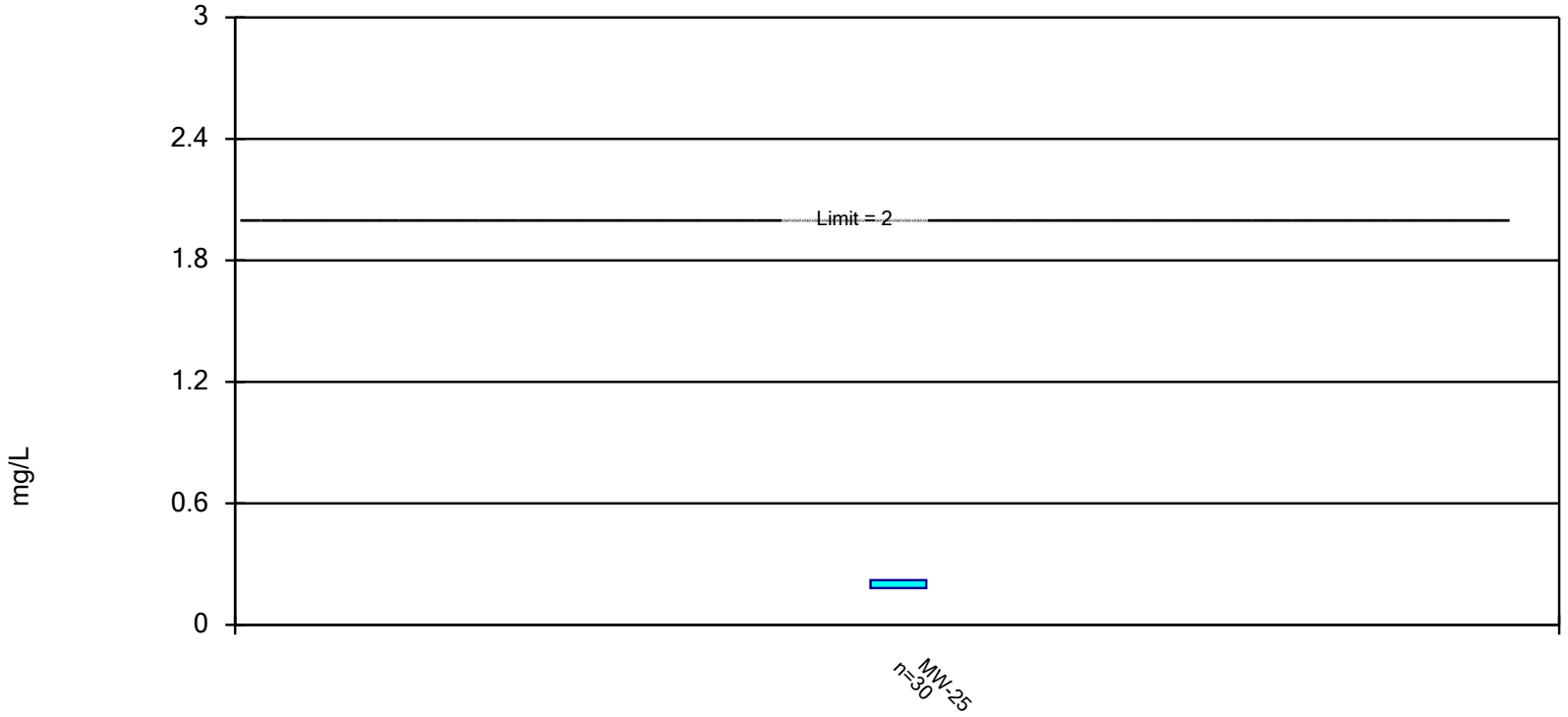


Constituent: Arsenic Analysis Run 10/19/2024 10:29 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

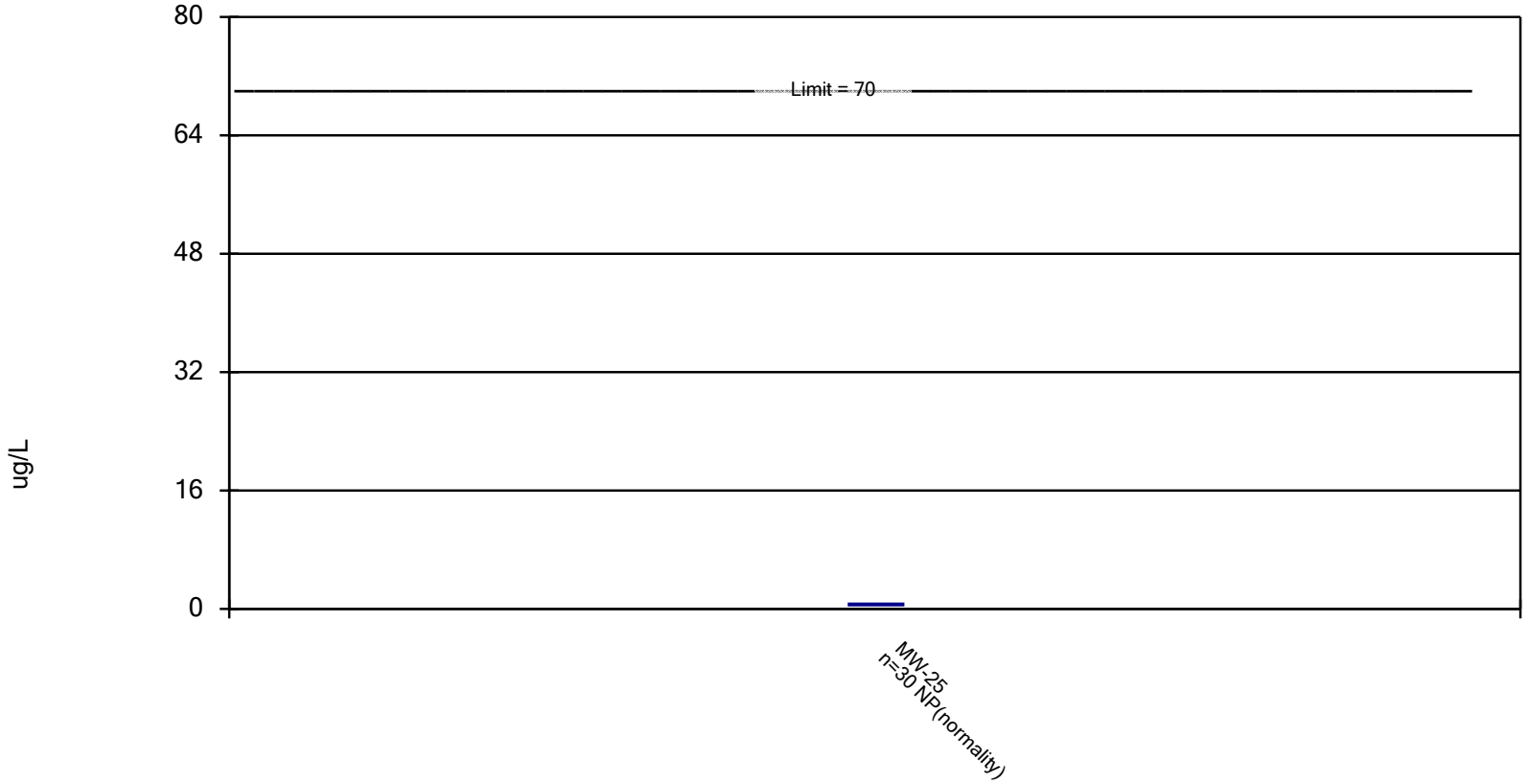


Constituent: Barium Analysis Run 10/19/2024 10:29 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01.

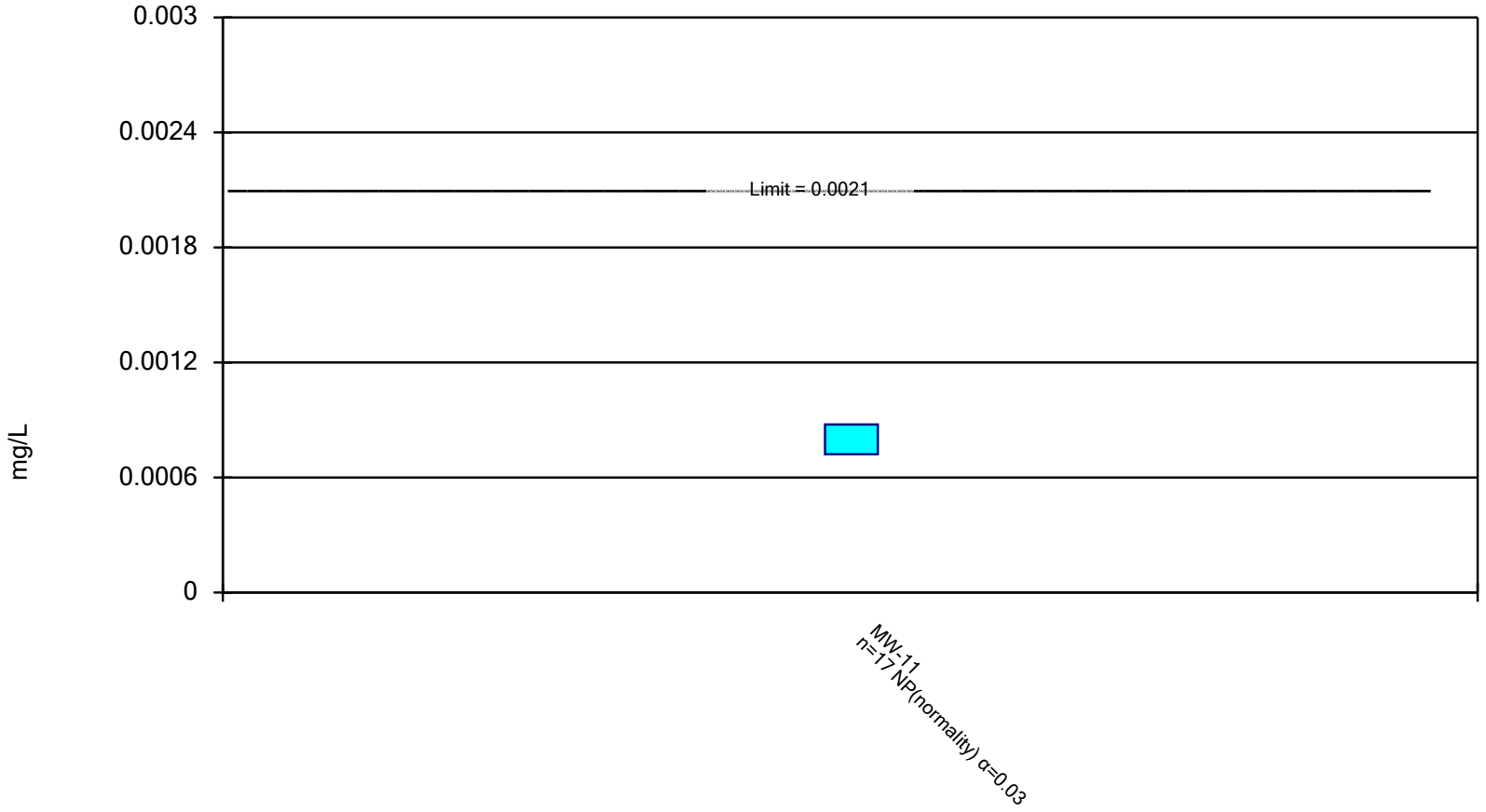


Constituent: cis-1,2-Dichloroethene Analysis Run 10/19/2024 10:29 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded.

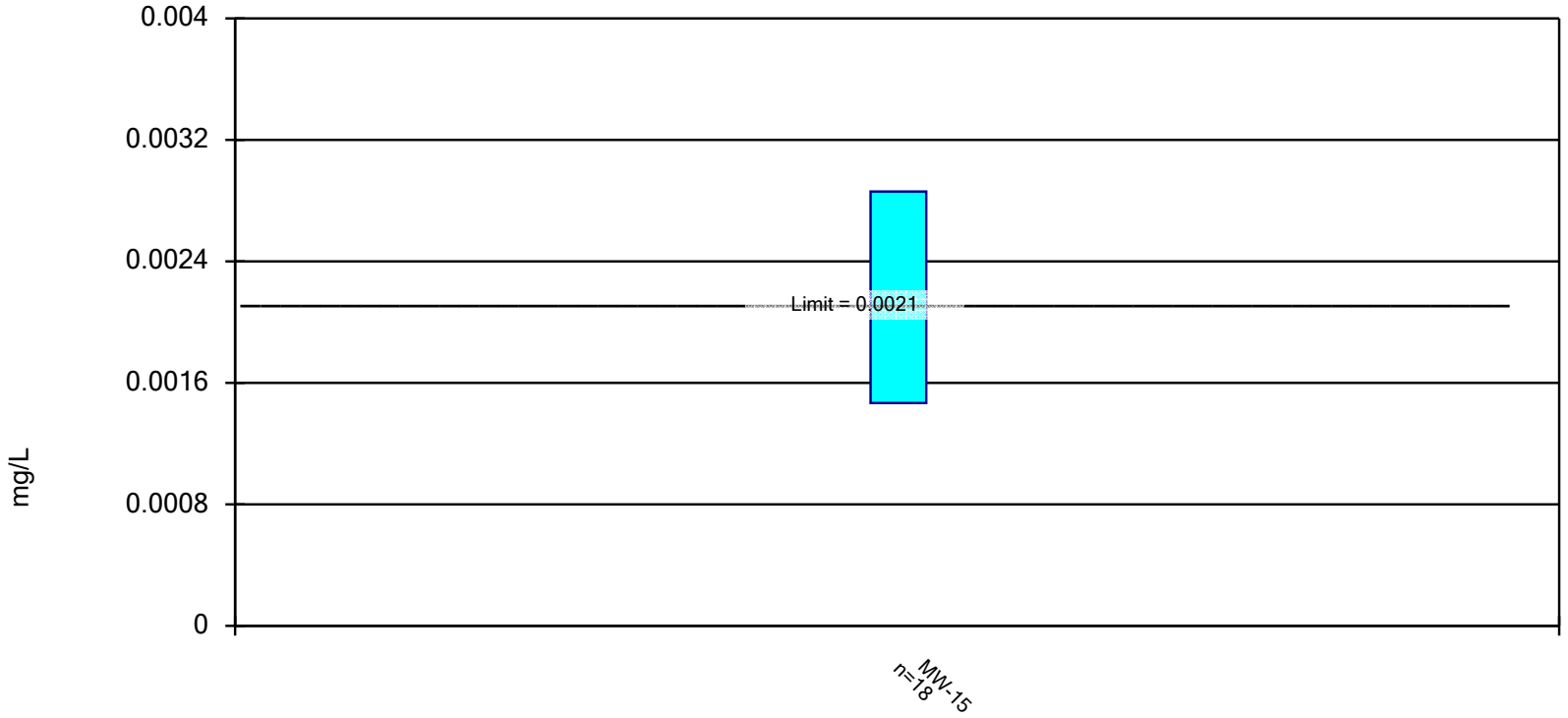


Constituent: Cobalt Analysis Run 10/19/2024 10:44 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

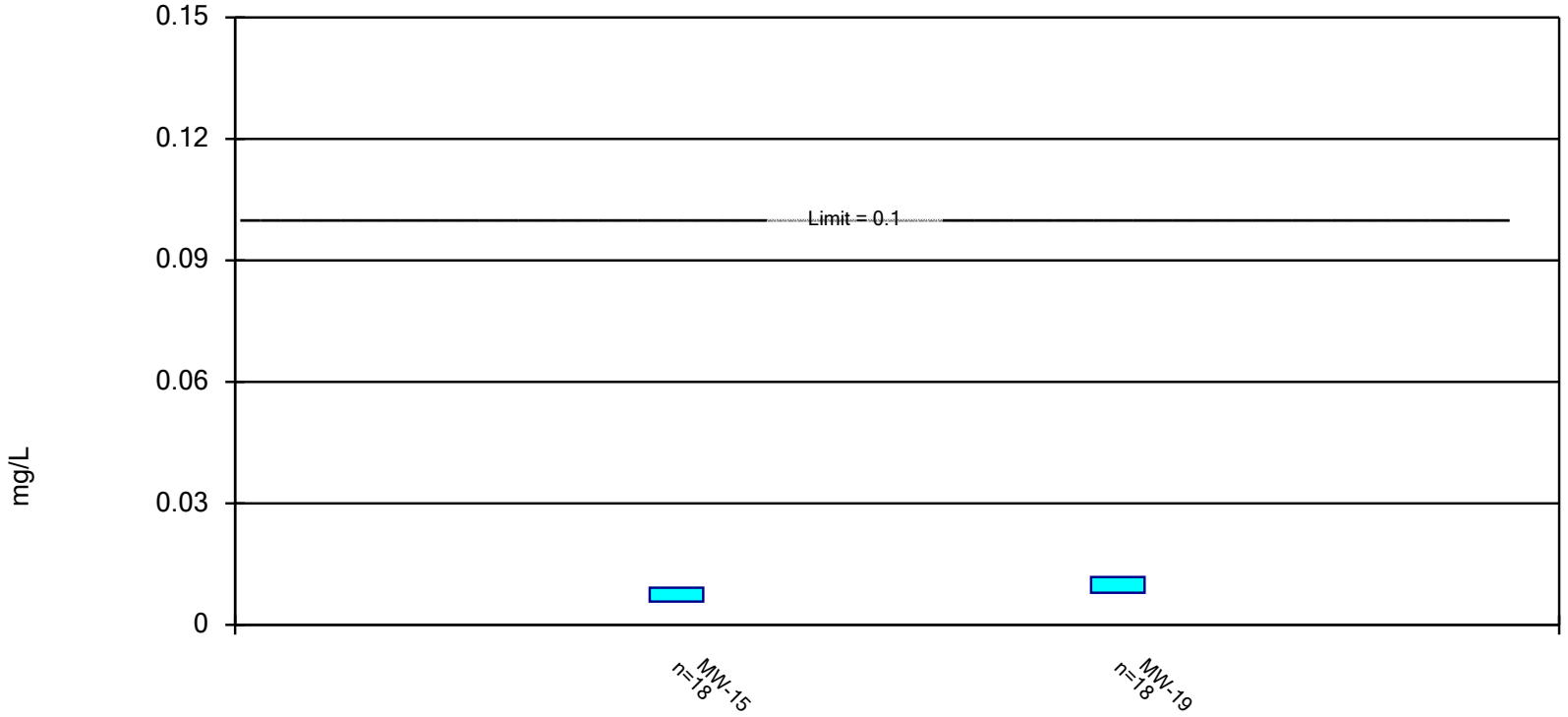


Constituent: Cobalt Analysis Run 10/19/2024 10:46 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Assessment Monitoring

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

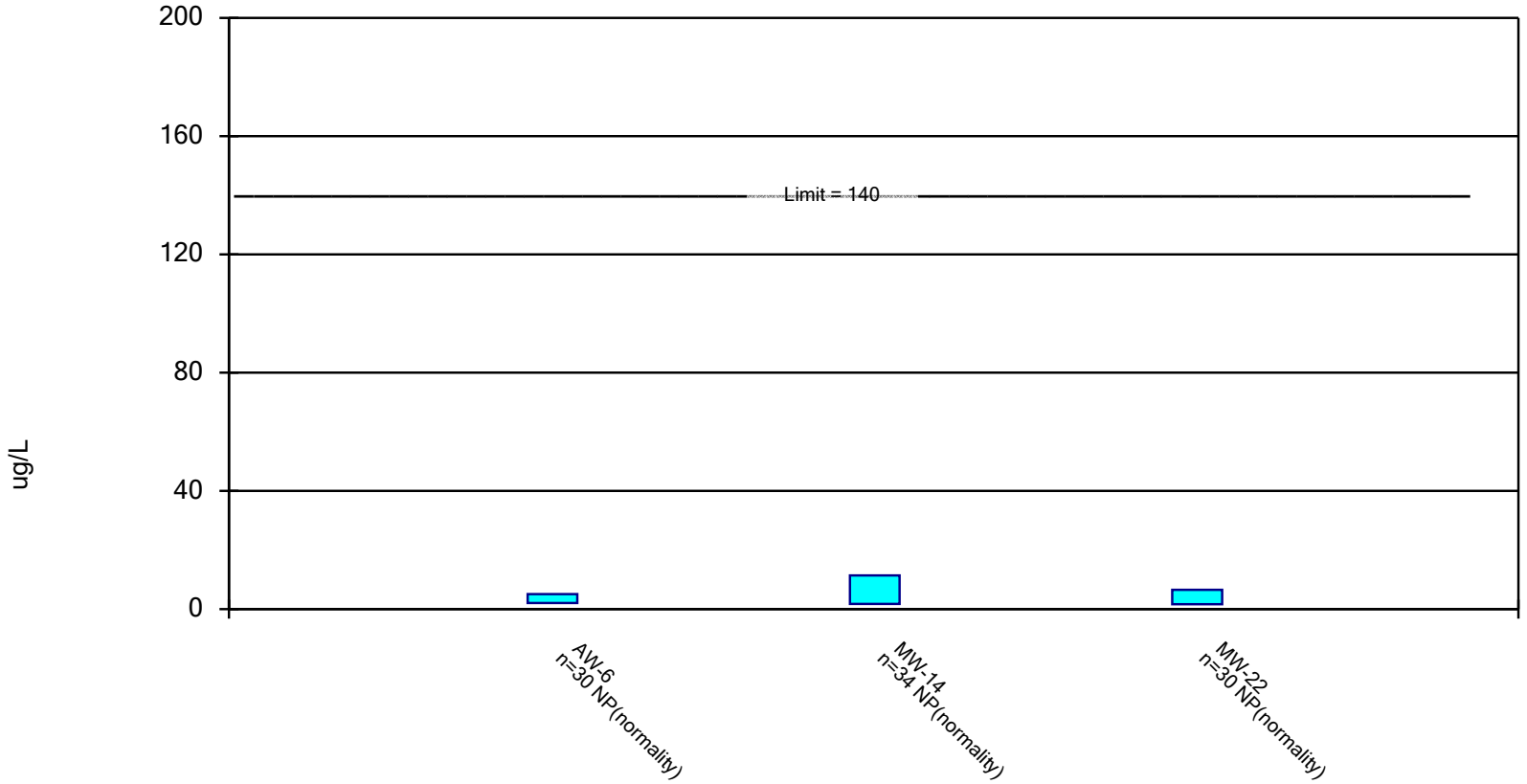


Constituent: Nickel Analysis Run 10/19/2024 10:29 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01.

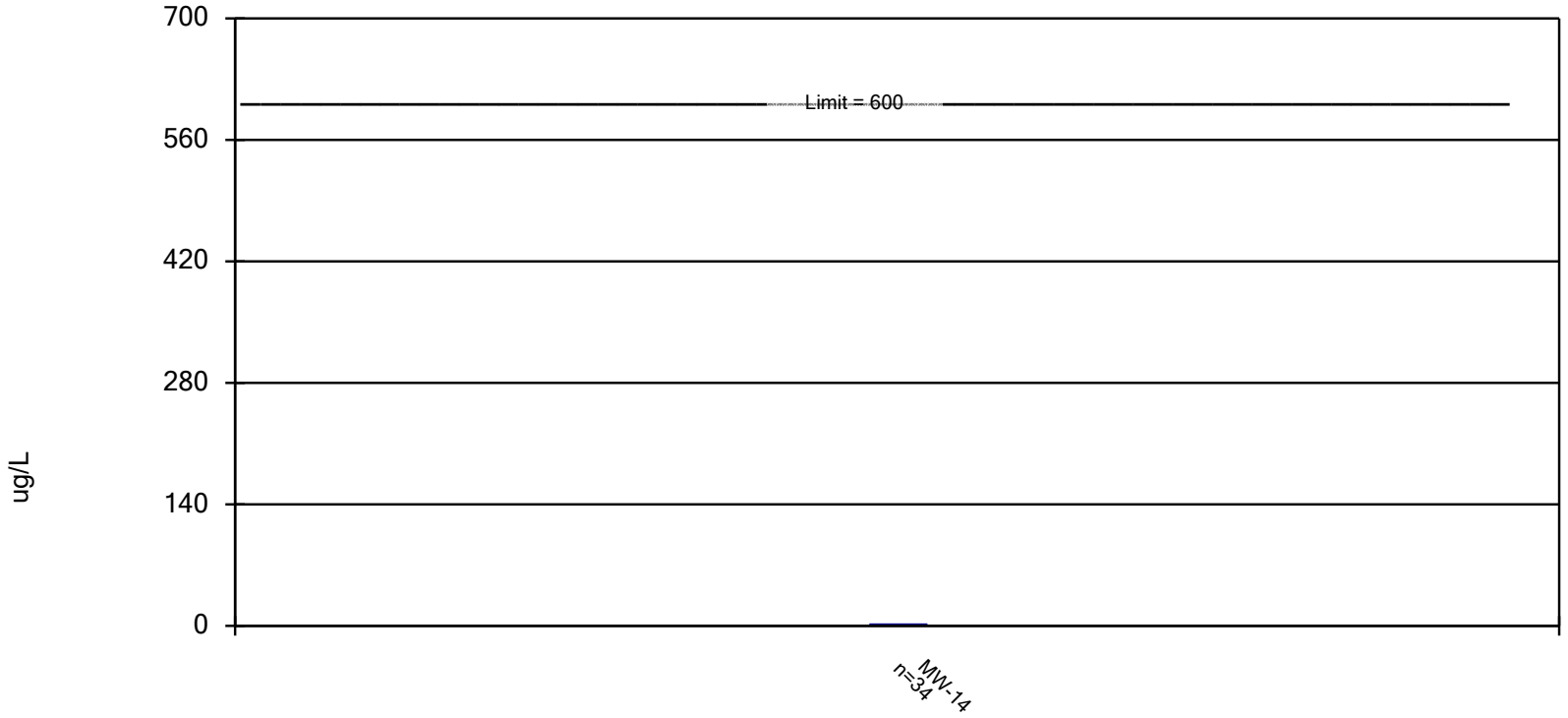


Constituent: 1,1-Dichloroethane Analysis Run 10/28/2024 10:51 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

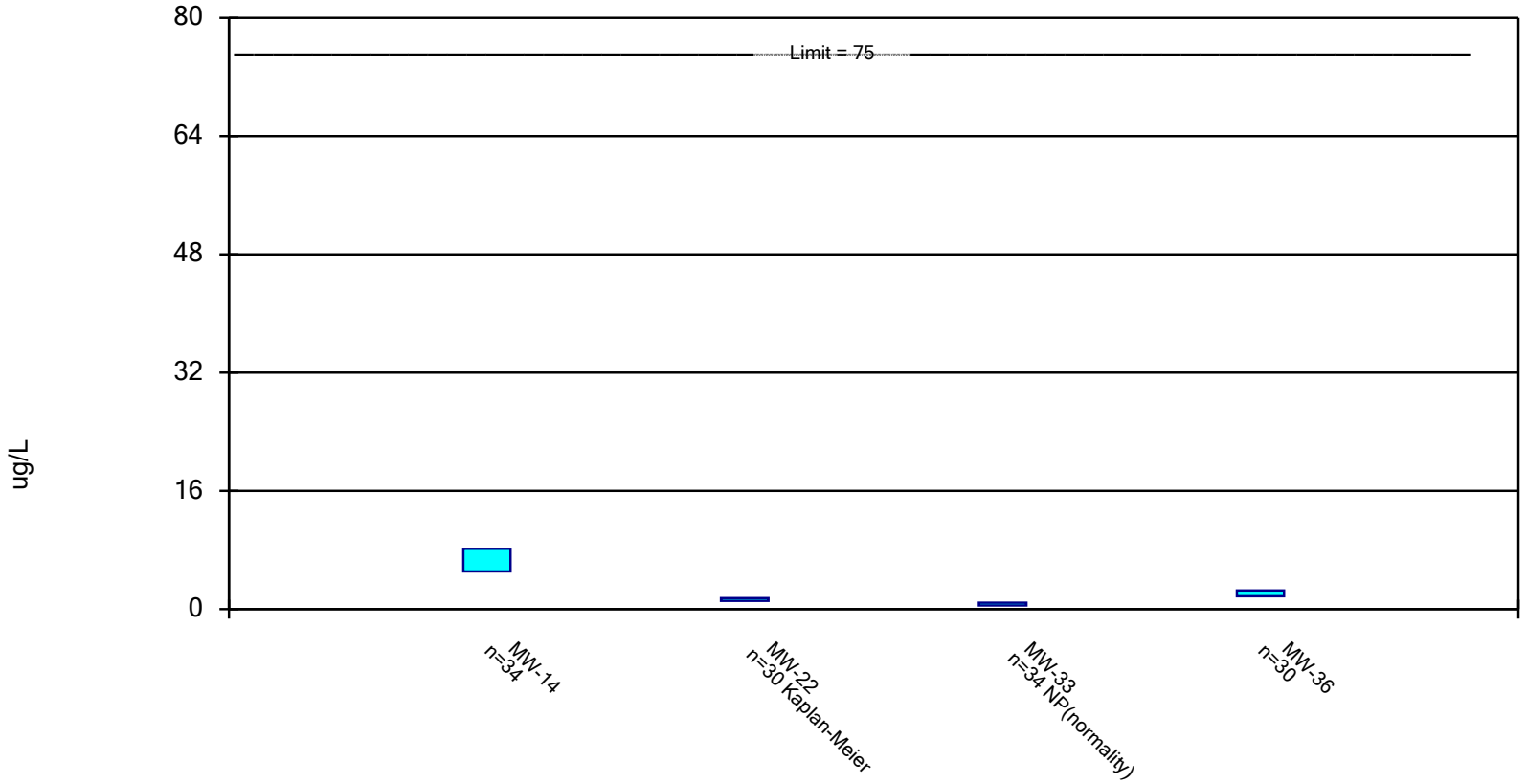


Constituent: 1,2-Dichlorobenzene Analysis Run 10/28/2024 10:51 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

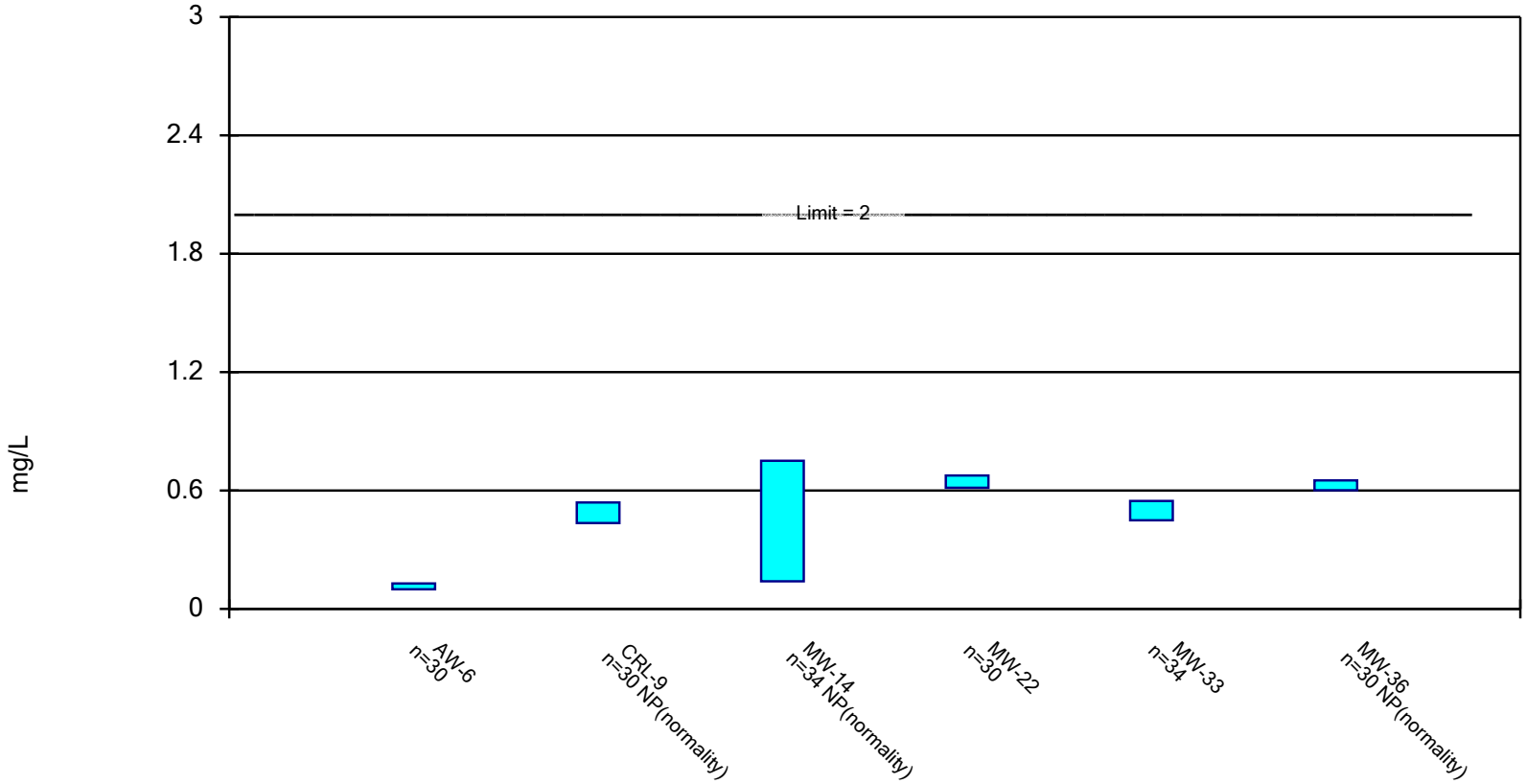


Constituent: 1,4-Dichlorobenzene Analysis Run 10/28/2024 10:52 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

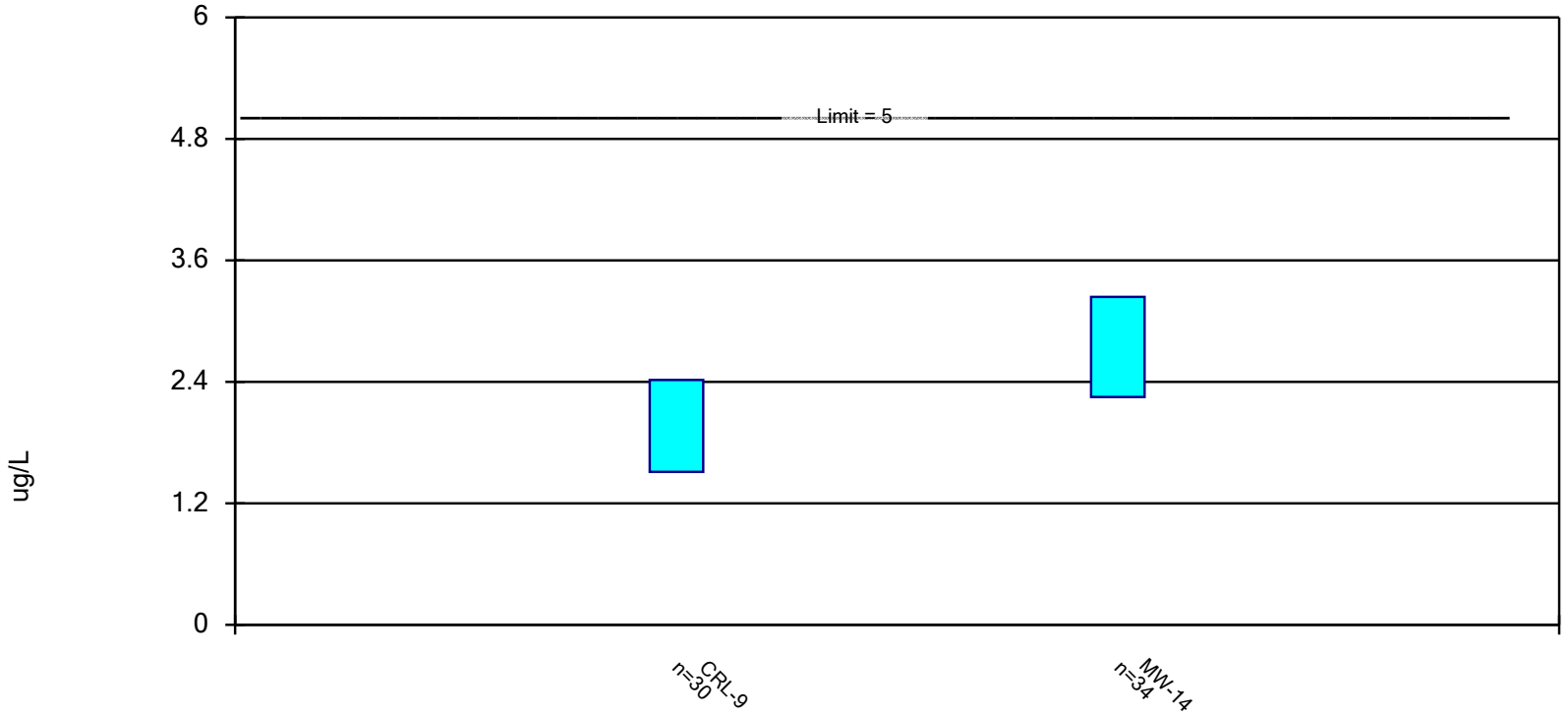


Constituent: Barium Analysis Run 10/28/2024 10:52 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

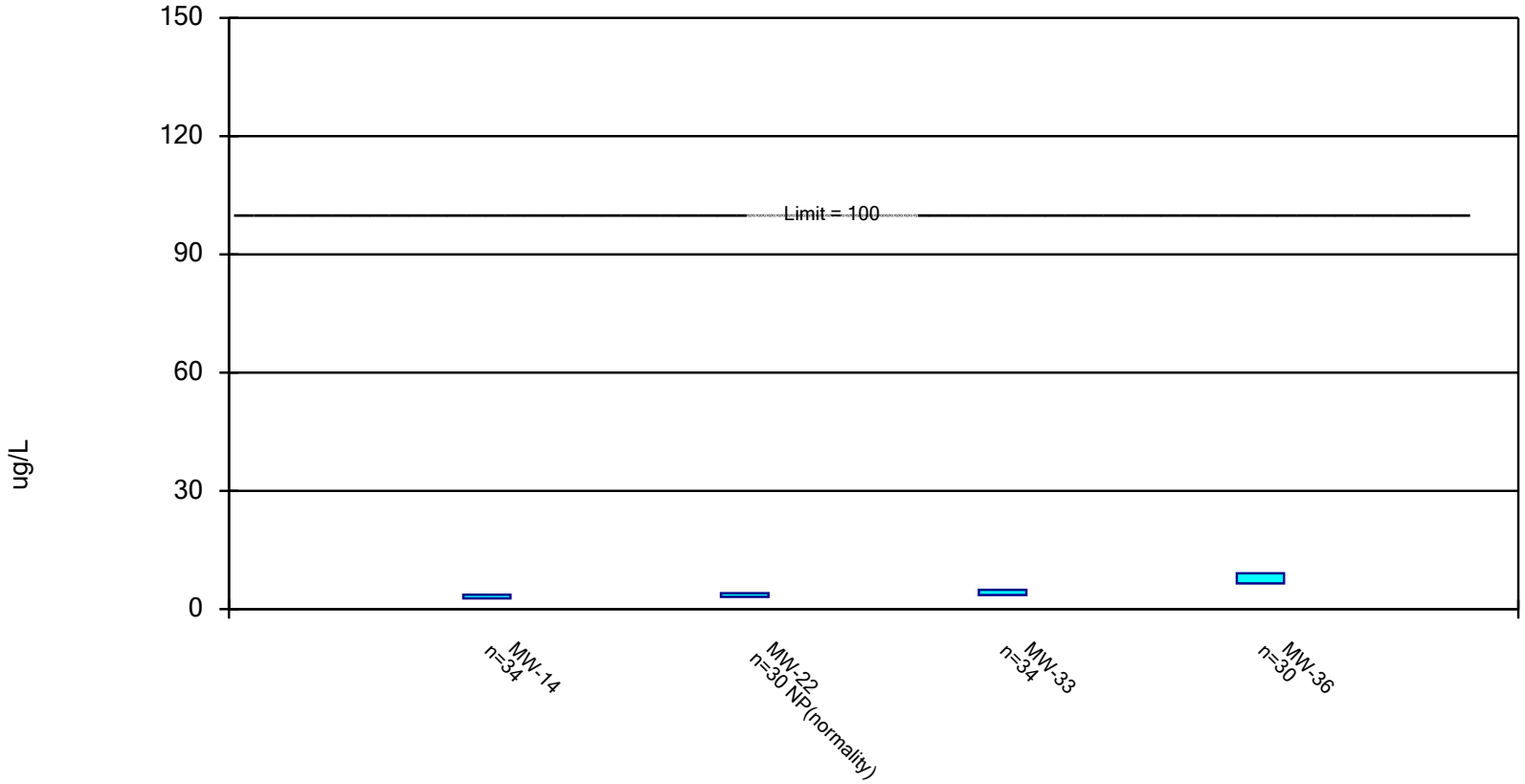


Constituent: Benzene Analysis Run 10/28/2024 10:52 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

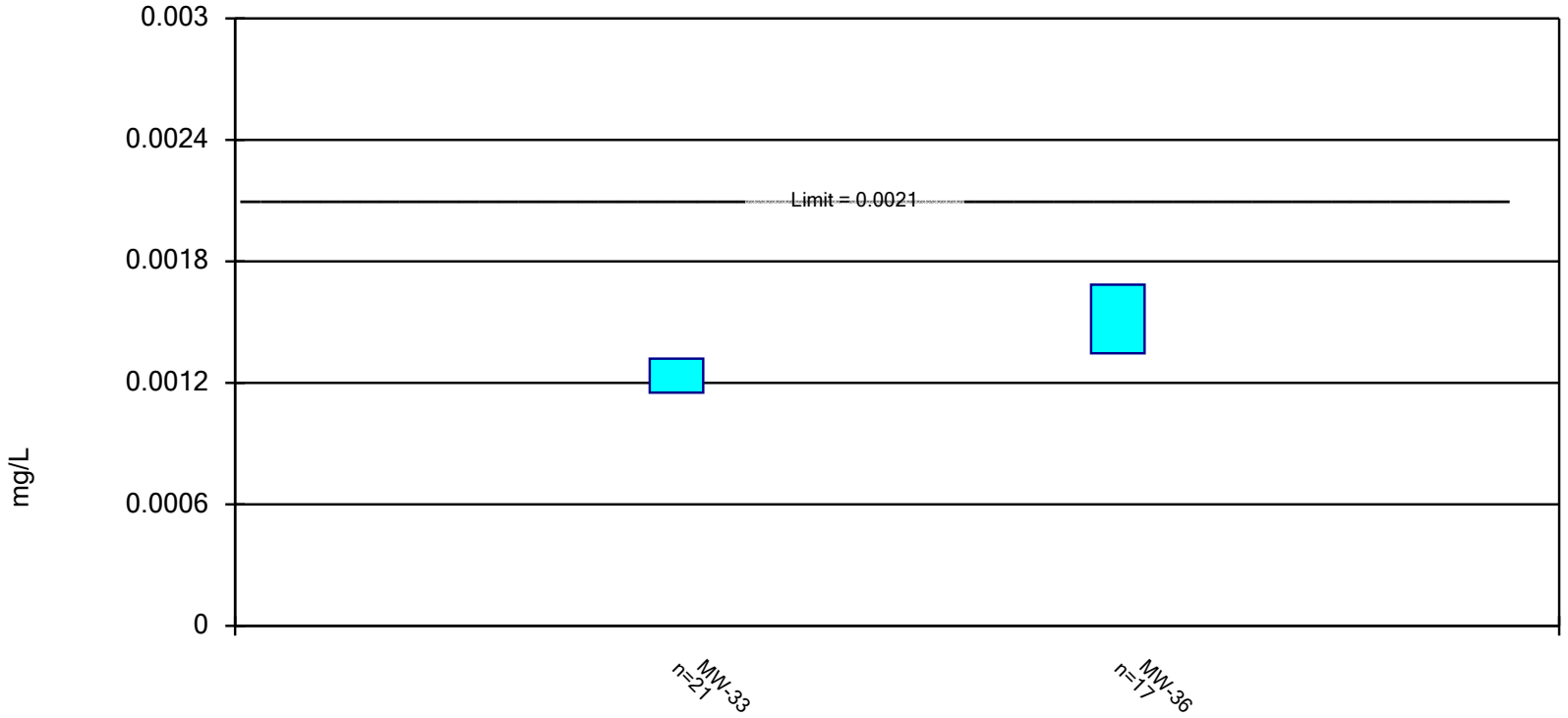


Constituent: Chlorobenzene Analysis Run 10/28/2024 10:52 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

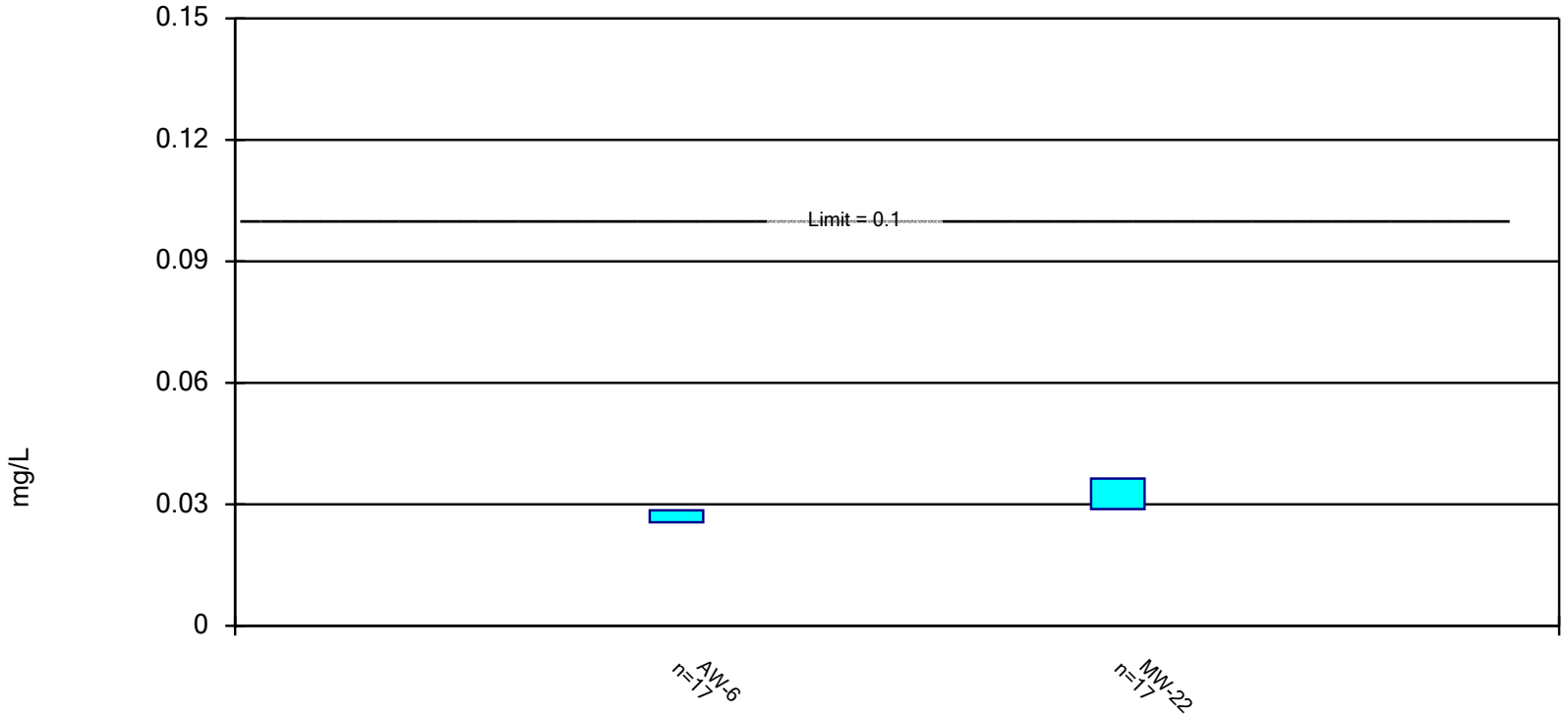


Constituent: Cobalt Analysis Run 10/28/2024 11:26 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

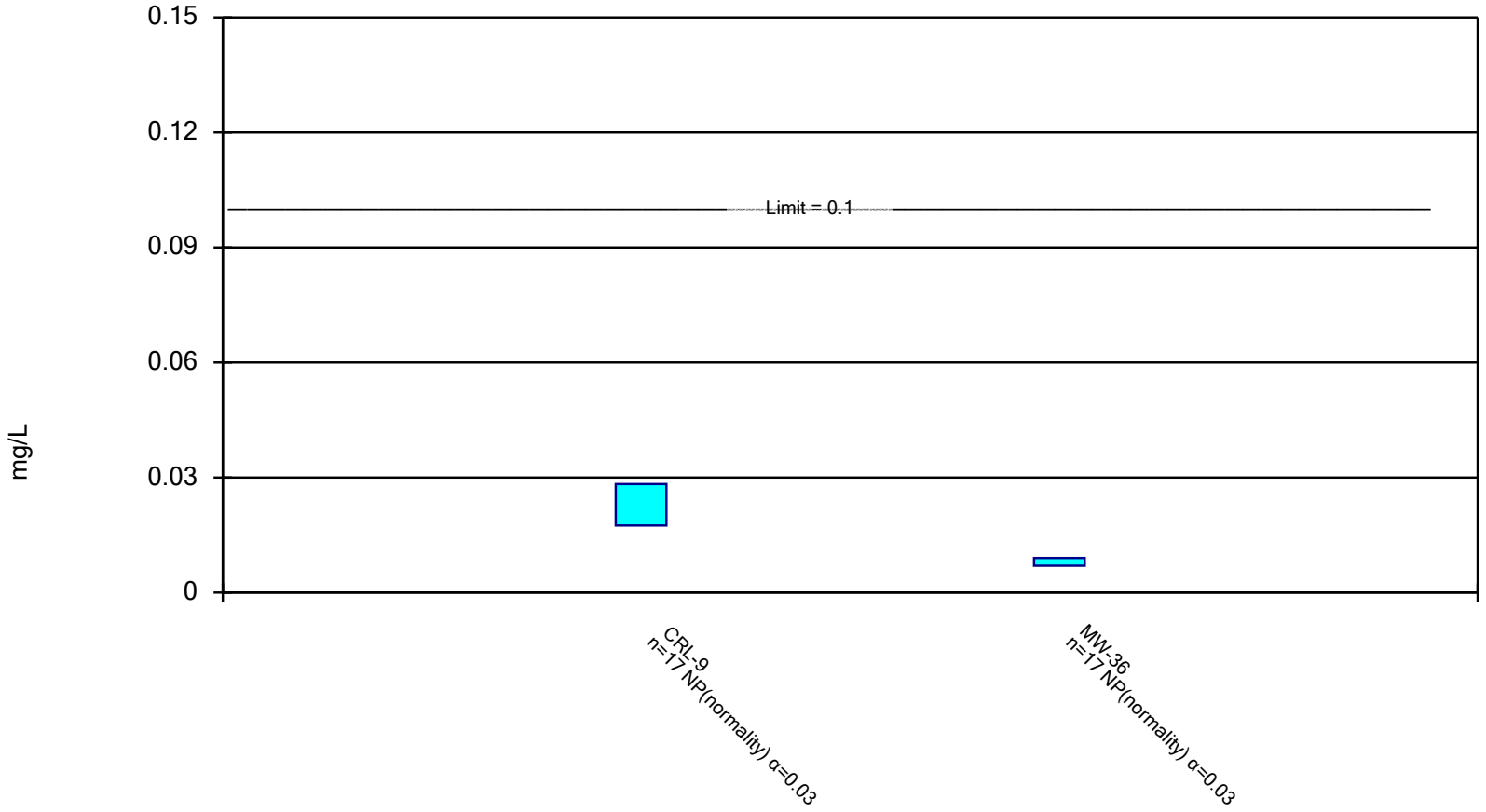


Constituent: Nickel Analysis Run 10/28/2024 11:13 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded.

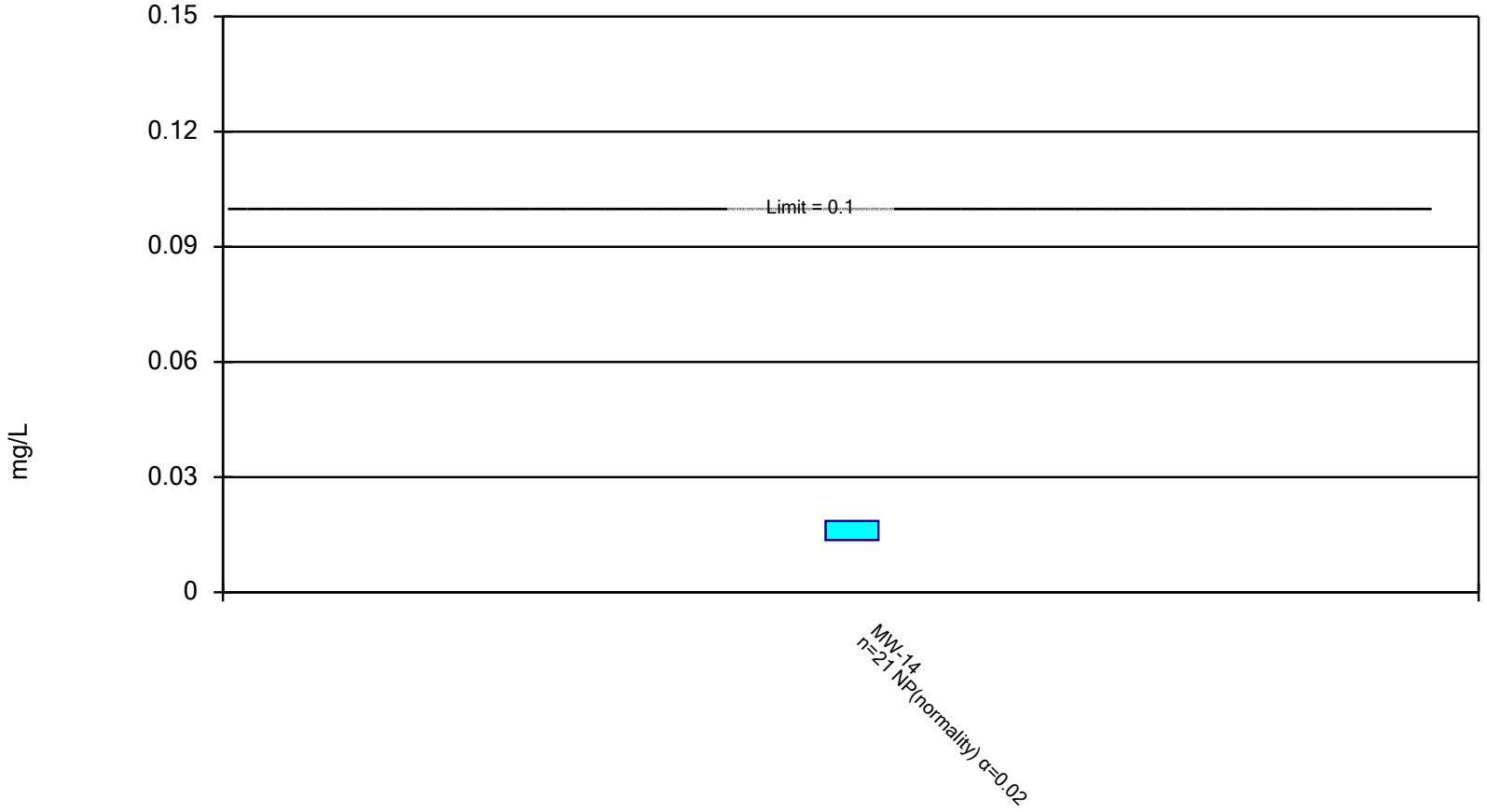


Constituent: Nickel Analysis Run 10/28/2024 11:17 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval - Corrective Action Monitoring - Assessment Constituents

Compliance Limit is not exceeded.



Constituent: Nickel Analysis Run 10/28/2024 11:15 AM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Attachment 5

Sanitas Report Output for Confidence Interval Calculations and Regression Summary
Corrective Action Mode

Upper Bedrock Cobalt

GWPS as Background - One-Sample Confidence Interval Testing Method

Calculations of Cobalt Upper Tolerance Limit with 95% Coverage[1] and 95% Confidence

Constituent Name	Upper Limit	Background N	Background Wells	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method	Minimum Achieved Coverage
Cobalt (mg/l)	0.008	40	MW-37,101A	n/a	n/a	33	n/a	n/a	0.1285	NP Inter(normality)	93%

[1] Note that a nonparametric tolerance limit was utilized in the cobalt background calculation. The nonparametric limit achieves 90% coverage.

Upper Bedrock

Confidence Interval - Corrective Action Mode [1]

Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2,3]	Exceed	N	Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Delineation Monitoring Locations													
Arsenic (mg/L)	MW-106A	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Cobalt (mg/l)	MW-105A	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Cobalt (mg/L)	MW-106A	0.01887	0.0119	0.008	Yes	21	0.01537	0.01209	0	None	No	0.1	Param.
Corrective Action Monitoring Locations													
Arsenic (mg/l)	AW-1	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Arsenic (mg/L)	AW-2	0.0173	0.0159	0.01	Yes	30	0.025	0.035	0	None	No	0.1	NP (normality)
Arsenic (mg/L)	MW-12	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Arsenic (mg/L)	MW-13	0.0546	0.0455	0.01	Yes	34	0.050	0.020	0	None	No	0.1	Param.
Arsenic (mg/L)	MW-16	0.1295	0.1022	0.01	Yes	34	0.116	0.061	0	None	No	0.1	Param.
Arsenic (mg/L)	MW-17	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Arsenic (mg/l)	MW-24	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data .											
Arsenic (mg/l)	MW-30	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data .											
Arsenic (mg/L)	MW-32	0.0889	0.0506	0.01	Yes	34	0.091	0.073	0	None	No	0.1	NP (normality)
Arsenic (mg/l)	MW-34	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data .											
Cobalt (mg/L)	MW-35	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Thallium (mg/L)	AW-2	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Thallium (mg/L)	MW-20	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Vinyl Chloride (ug/l)	MW-34	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											

[1] Under corrective action mode, an SSL is rejected when the upper confidence limit lies below the groundwater protection standard (compliance limit).

[2] Value is the 40 CFR Part 141 Safe Drinking Water Act MCL or the IAC 567 Chapter 137 Statewide Standard for a Protected Groundwater Source.

[3] Using the one-sample testing method, the fixed GWPS for cobalt was calculated as the background upper tolerance limit with 95% confidence and 95% coverage. Note that a nonparametric tolerance limit was utilized in the cobalt background calculation. The nonparametric limit achieves 90% coverage.

MW-106A Arsenic Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.683697045
R Square	0.467441649
Adjusted R Square	0.431937759
Standard Error	0.002563
Observations	17

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	8.64866E-05	8.649E-05	13.165928	0.00247668
Residual	15	9.85346E-05	6.569E-06		
Total	16	0.000185021			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.108574553	0.025702344	4.2243055	0.0007359	0.0537913	0.1633578	0.0537913	0.163357803
X Variable 1	-2.14554E-06	5.91304E-07	-3.628488	0.0024767	-3.406E-06	-8.85E-07	-3.406E-06	-8.85205E-07

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
9/16/2014	0.0184	0.0187	0.0206	0.0167	0.0236	0.0138
3/17/2015	0.0163	0.0183	0.0201	0.0165	0.0231	0.0135
10/1/2015	0.0192	0.0179	0.0195	0.0162	0.0226	0.0131
3/17/2016	0.0177	0.0175	0.0190	0.0160	0.0222	0.0128
8/23/2016	0.0168	0.0172	0.0186	0.0158	0.0219	0.0125
3/7/2017	0.0173	0.0167	0.0180	0.0155	0.0214	0.0121
8/23/2017	0.0235	0.0164	0.0176	0.0152	0.0210	0.0117
3/12/2018	0.0151	0.0159	0.0171	0.0148	0.0206	0.0113
8/23/2018	0.0128	0.0156	0.0167	0.0145	0.0202	0.0110
3/27/2019	0.0133	0.0151	0.0162	0.0140	0.0198	0.0105
8/21/2019	0.0168	0.0148	0.0159	0.0137	0.0194	0.0102
4/2/2020	0.0102	0.0143	0.0155	0.0131	0.0190	0.0097
8/18/2020	0.0135	0.0140	0.0153	0.0128	0.0187	0.0094
8/23/2021	0.0141	0.0132	0.0147	0.0118	0.0180	0.0085
8/23/2022	0.0106	0.0125	0.0142	0.0107	0.0173	0.0076
8/22/2023	0.0124	0.0117	0.0138	0.0096	0.0166	0.0067
8/19/2024	0.0128	0.0109	0.0133	0.0085	0.0160	0.0058

GWPS = 0.01 mg/L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

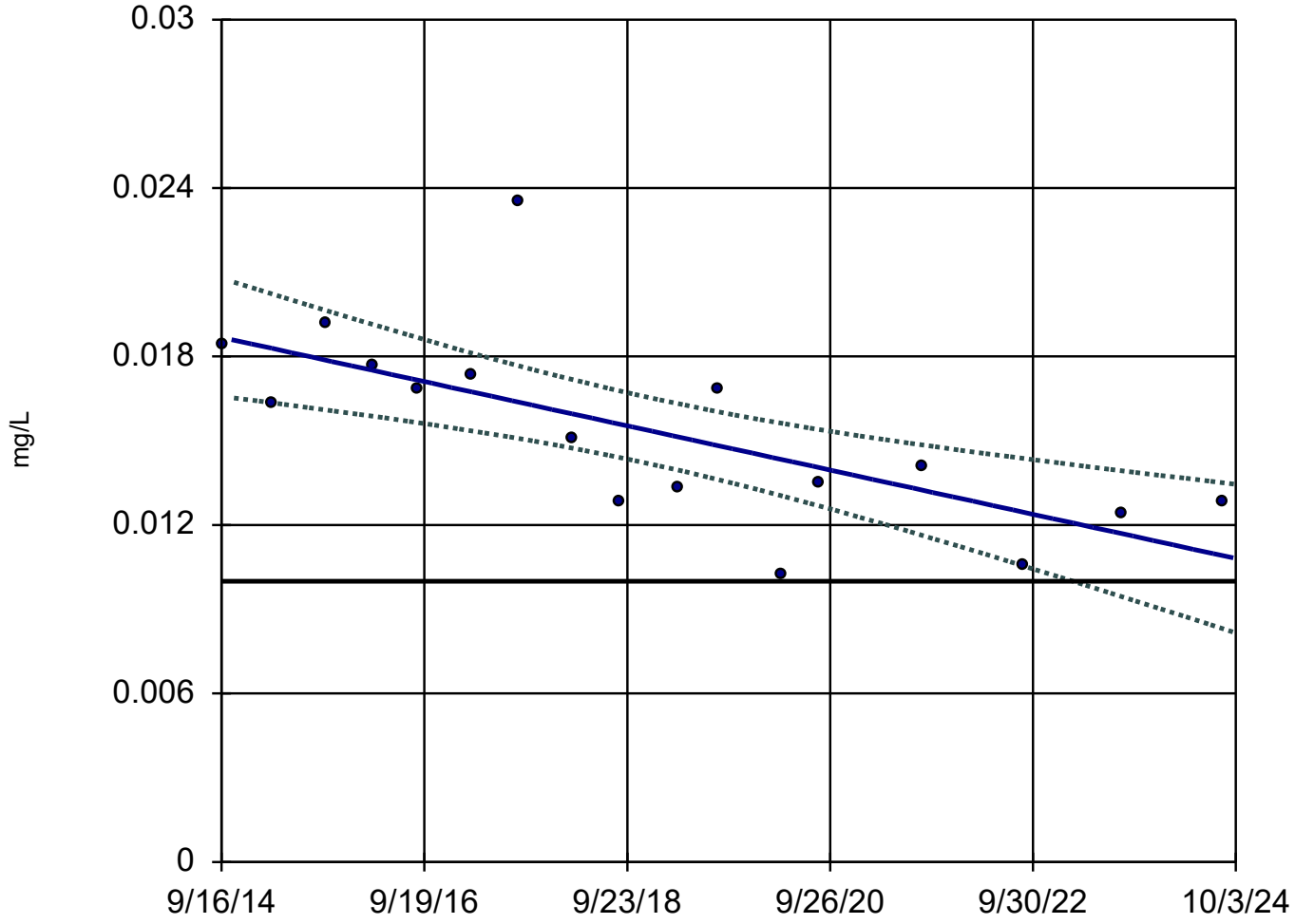
9/23/2026 -4.605 0.01

Projected Year to Completion

9/22/2029

Linear Regression and 90% Confidence Band

MW-106A



n = 17

Slope = -0.0007836 units/year.

alpha = 0.02
t = -3.627
critical = -2.249

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9086, critical
= 0.851.

GWPS = 0.01 mg/L.

Constituent: Arsenic Analysis Run 10/19/2024 12:47 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

MW-105A Cobalt Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.887783954
R Square	0.78816035
Adjusted R Square	0.777010895
Standard Error	0.296978509
Observations	21

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	6.2346342	6.2346342	70.69048045	7.947E-08
Residual	19	1.675728458	0.088196235		
Total	20	7.910362658			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	15.73519381	2.36696604	6.647832519	2.33214E-06	10.781077	20.689311	10.781077	20.689311
X Variable 1	-0.000461444	5.4883E-05	-8.407763106	7.94705E-08	-0.000576	-0.000347	-0.000576	-0.000347

X	Y	ln(Y)	Predicted-Log Scale	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
9/10/2013	0.0278	-3.58272	-3.42739	0.03247	0.03917	0.02692	0.05609	0.01880
11/11/2013	0.0351	-3.34955	-3.45594	0.03156	0.03789	0.02629	0.05443	0.01830
3/11/2014	0.0326	-3.42344	-3.51133	0.02986	0.03553	0.02509	0.05135	0.01736
6/10/2014	0.0253	-3.67695	-3.55334	0.02863	0.03385	0.02422	0.04913	0.01668
9/13/2014	0.025	-3.68888	-3.59718	0.02740	0.03218	0.02333	0.04693	0.01600
3/17/2015	0.0216	-3.83506	-3.68256	0.02516	0.02919	0.02168	0.04294	0.01474
10/1/2015	0.0245	-3.70908	-3.77403	0.02296	0.02633	0.02002	0.03907	0.01349
3/17/2016	0.0162	-4.12274	-3.85151	0.02125	0.02416	0.01868	0.03608	0.01251
8/23/2016	0.0181	-4.01184	-3.92480	0.01975	0.02231	0.01748	0.03347	0.01165
3/6/2017	0.0099	-4.61522	-4.01459	0.01805	0.02027	0.01608	0.03056	0.01066
8/24/2017	0.0187	-3.97923	-4.09350	0.01668	0.01867	0.01490	0.02822	0.00986
3/12/2018	0.0177	-4.03419	-4.18579	0.01521	0.01702	0.01360	0.02573	0.00899
8/23/2018	0.0213	-3.84905	-4.26146	0.01410	0.01581	0.01258	0.02386	0.00833
3/19/2019	0.0196	-3.93223	-4.35744	0.01281	0.01443	0.01137	0.02170	0.00756
8/23/2019	0.0158	-4.14775	-4.42989	0.01192	0.01351	0.01051	0.02022	0.00702
3/26/2020	0.0175	-4.04555	-4.52956	0.01079	0.01235	0.00942	0.01834	0.00634
8/18/2020	0.0143	-4.24750	-4.59647	0.01009	0.01165	0.00874	0.01719	0.00592
8/19/2021	0.00794	-4.83584	-4.76536	0.00852	0.01008	0.00720	0.01462	0.00496
8/23/2022	0.00471	-5.35807	-4.93563	0.00719	0.00874	0.00591	0.01245	0.00415
8/23/2023	0.00445	-5.41485	-5.10406	0.00607	0.00760	0.00485	0.01063	0.00347
8/19/2024	0.00424	-5.46319	-5.27110	0.00514	0.00663	0.00398	0.00912	0.00290

GWPS (Background) [(1)] = 0.008 mg//L

[(1)] Using the *one-sample* testing method, the fixed GWPS was calculated as the background upper tolerance limit with 95% confidence and 95% coverage.
Note that a nonparametric tolerance limit was utilized in the cobalt background calculation. The nonparametric limit achieves 90% coverage.

First Achieved Compliance with the GWPS

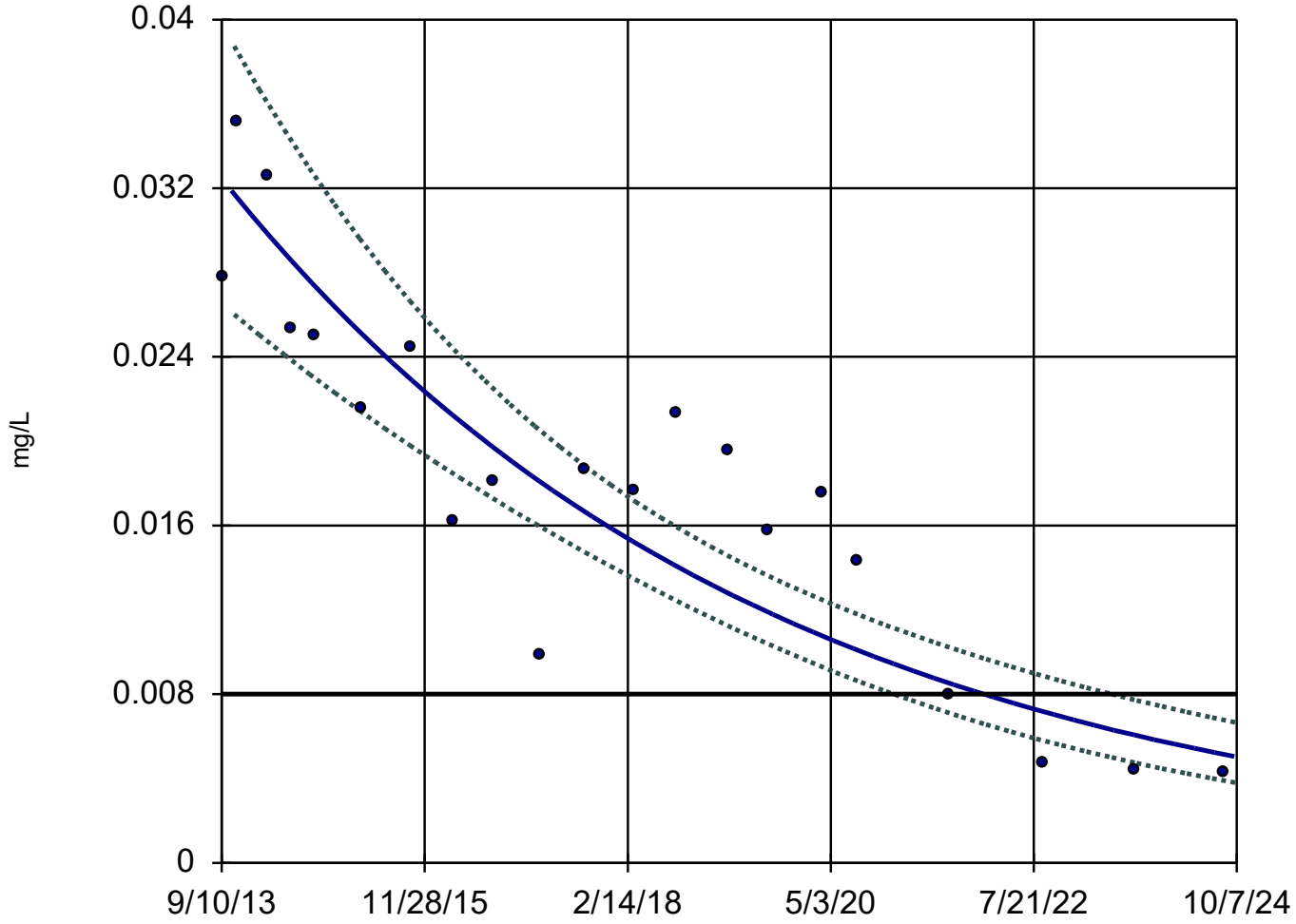
Fall 2024

Projected Year to Completion

Fall 2026

Linear Regression and 90% Confidence Band

MW-105A



n = 21

Slope = -0.1685
natural log units/year.

alpha = 0.02
t = -8.406
critical = -2.205

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9744 after natural
log transformation,
critical = 0.873.

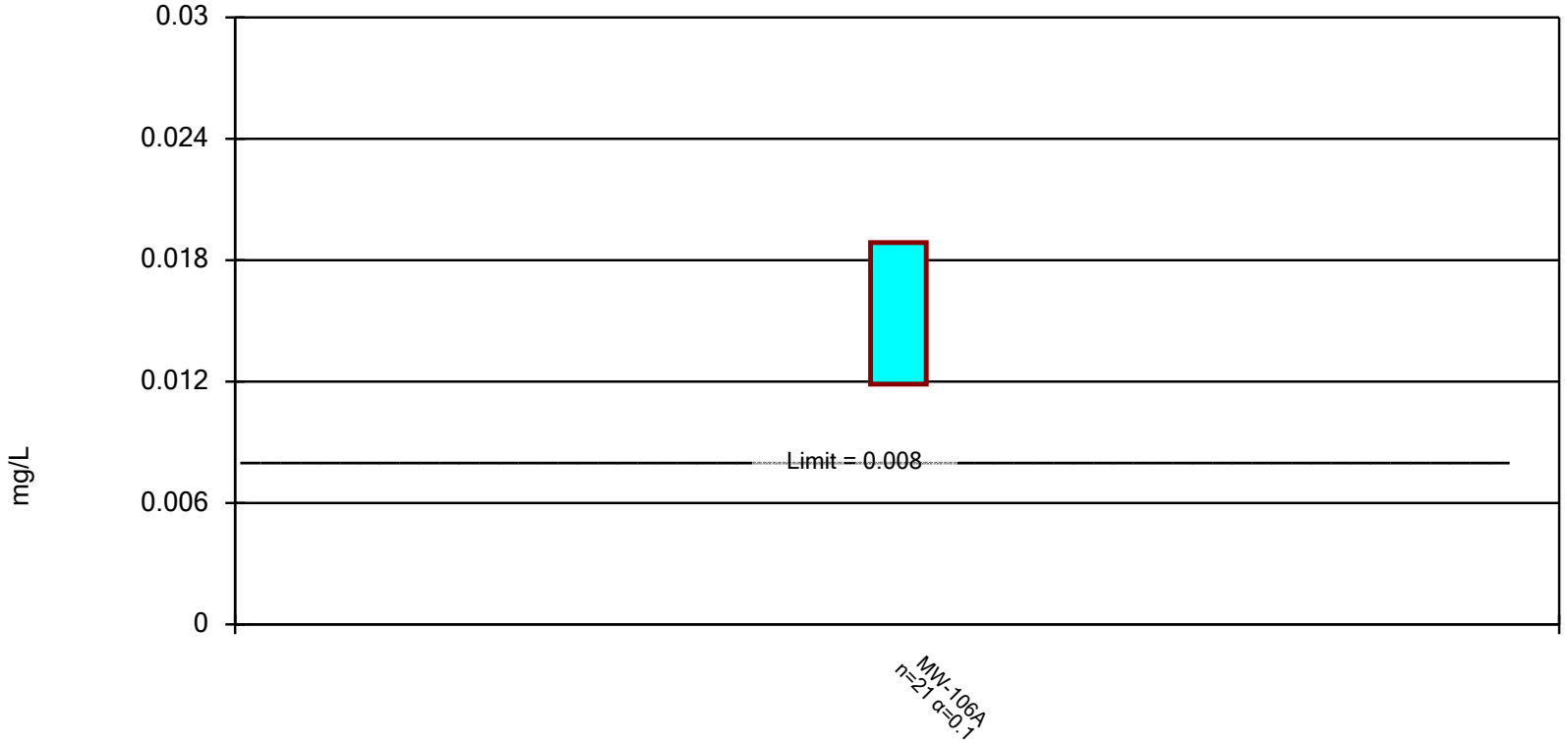
GWPS = 0.008 mg/L.

Constituent: Cobalt Analysis Run 10/19/2024 4:11 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval, Corrective Action Mode

Compliance limit is exceeded. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/129/2024 2:19 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

AW-1 Arsenic Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.449543454
R Square	0.202089317
Adjusted R Square	0.173592507
Standard Error	0.031642368
Observations	30

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.007100437	0.0071004	7.091647	0.01269225
Residual	28	0.028034704	0.0010012		
Total	29	0.03513514			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.449411667	0.147631605	3.0441427	0.0050348	0.14700203	0.7518213	0.147002	0.751821301
X Variable 1	-9.30116E-06	3.49272E-06	-2.663015	0.0126922	-1.646E-05	-2.15E-06	-1.646E-05	-2.14665E-06

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
8/5/2008	0.0791	0.0805	0.0986	0.0623	0.1373	0.0237
3/5/2009	0.0916	0.0785	0.0956	0.0614	0.1350	0.0220
7/14/2009	0.209	0.0773	0.0938	0.0608	0.1336	0.0210
9/10/2009	0.0716	0.0767	0.0930	0.0605	0.1330	0.0205
3/16/2010	0.00949	0.0750	0.0903	0.0597	0.1310	0.0190
9/8/2010	0.0636	0.0734	0.0879	0.0588	0.1291	0.0176
3/7/2011	0.0741	0.0717	0.0855	0.0579	0.1273	0.0161
9/1/2011	0.0509	0.0700	0.0831	0.0570	0.1254	0.0147
3/9/2012	0.0679	0.0683	0.0806	0.0559	0.1235	0.0130
9/6/2012	0.059	0.0666	0.0783	0.0549	0.1217	0.0115
3/21/2013	0.0721	0.0648	0.0759	0.0536	0.1197	0.0098
9/3/2013	0.057	0.0632	0.0739	0.0525	0.1181	0.0083
3/11/2014	0.067	0.0615	0.0718	0.0512	0.1163	0.0067
9/11/2014	0.0515	0.0598	0.0698	0.0497	0.1145	0.0050
3/10/2015	0.0557	0.0581	0.0680	0.0482	0.1128	0.0034
9/17/2015	0.0427	0.0563	0.0661	0.0465	0.1110	0.0016
3/7/2016	0.048	0.0547	0.0646	0.0448	0.1094	0.0000
8/9/2016	0.0409	0.0533	0.0633	0.0432	0.1080	-0.0015
3/2/2017	0.026	0.0514	0.0617	0.0410	0.1062	-0.0035
8/23/2017	0.042	0.0497	0.0605	0.0390	0.1046	-0.0052
3/8/2018	0.0562	0.0479	0.0592	0.0366	0.1029	-0.0071
8/23/2018	0.0458	0.0463	0.0581	0.0345	0.1015	-0.0088
3/25/2019	0.00174	0.0444	0.0569	0.0318	0.0996	-0.0109
8/22/2019	0.0424	0.0430	0.0561	0.0298	0.0984	-0.0124
3/25/2020	0.0221	0.0410	0.0550	0.0269	0.0966	-0.0147
8/19/2020	0.0466	0.0396	0.0542	0.0249	0.0954	-0.0162
8/18/2021	0.0484	0.0362	0.0525	0.0199	0.0924	-0.0200
8/29/2022	0.0407	0.0327	0.0508	0.0146	0.0895	-0.0241
8/28/2023	0.0678	0.0293	0.0493	0.0093	0.0867	-0.0281
8/13/2024	0.0461	0.0261	0.0479	0.0042	0.0841	-0.0320

GWPS = 0.01 mg/L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

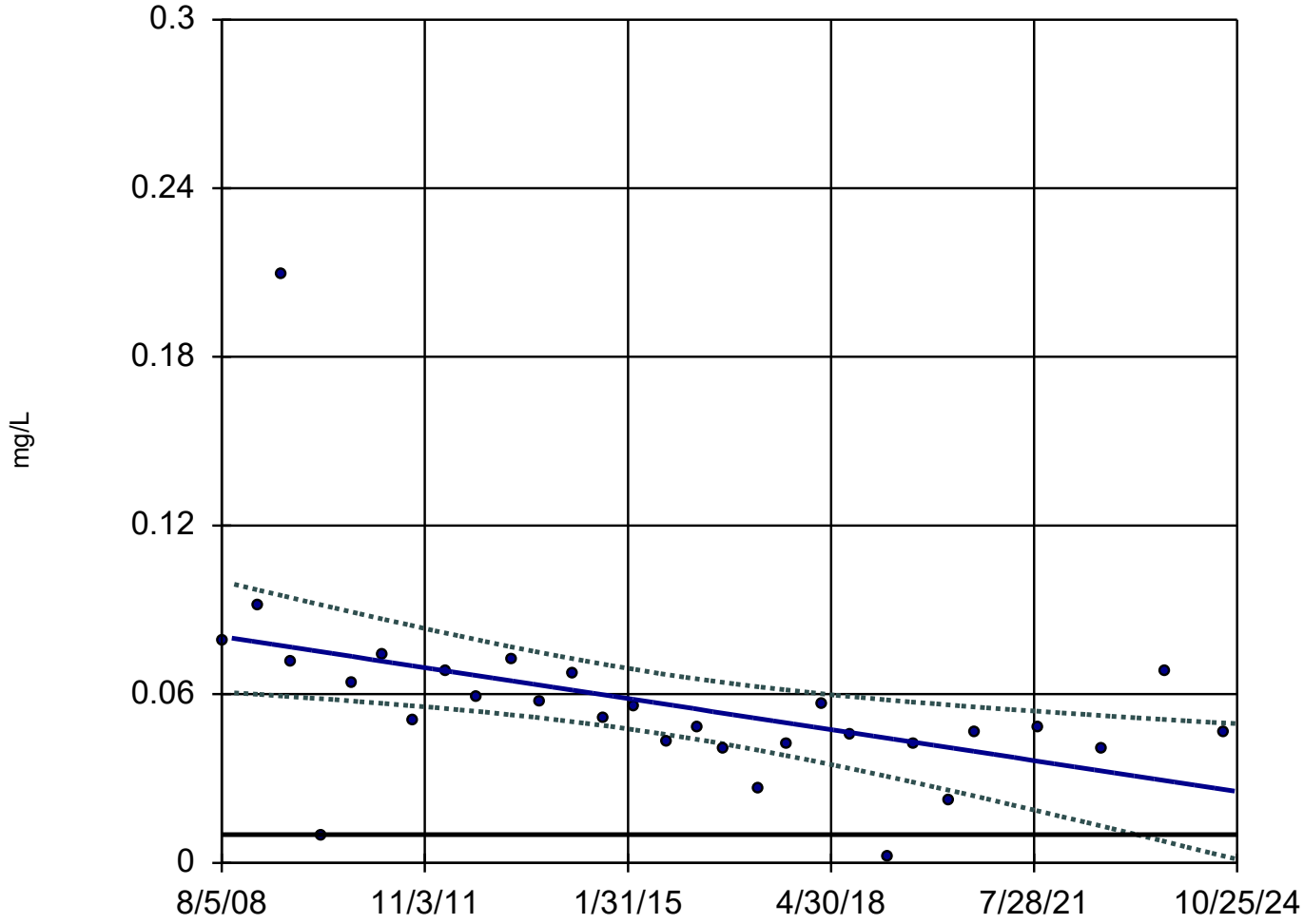
10/1/2043	-4.605	0.01

Projected Year to Completion

9/30/2046

Linear Regression and 90% Confidence Band

AW-1



n = 30

Slope = -0.003397 units/year.

alpha = 0.02
t = -2.662
critical = -2.154

Significant decreasing trend.

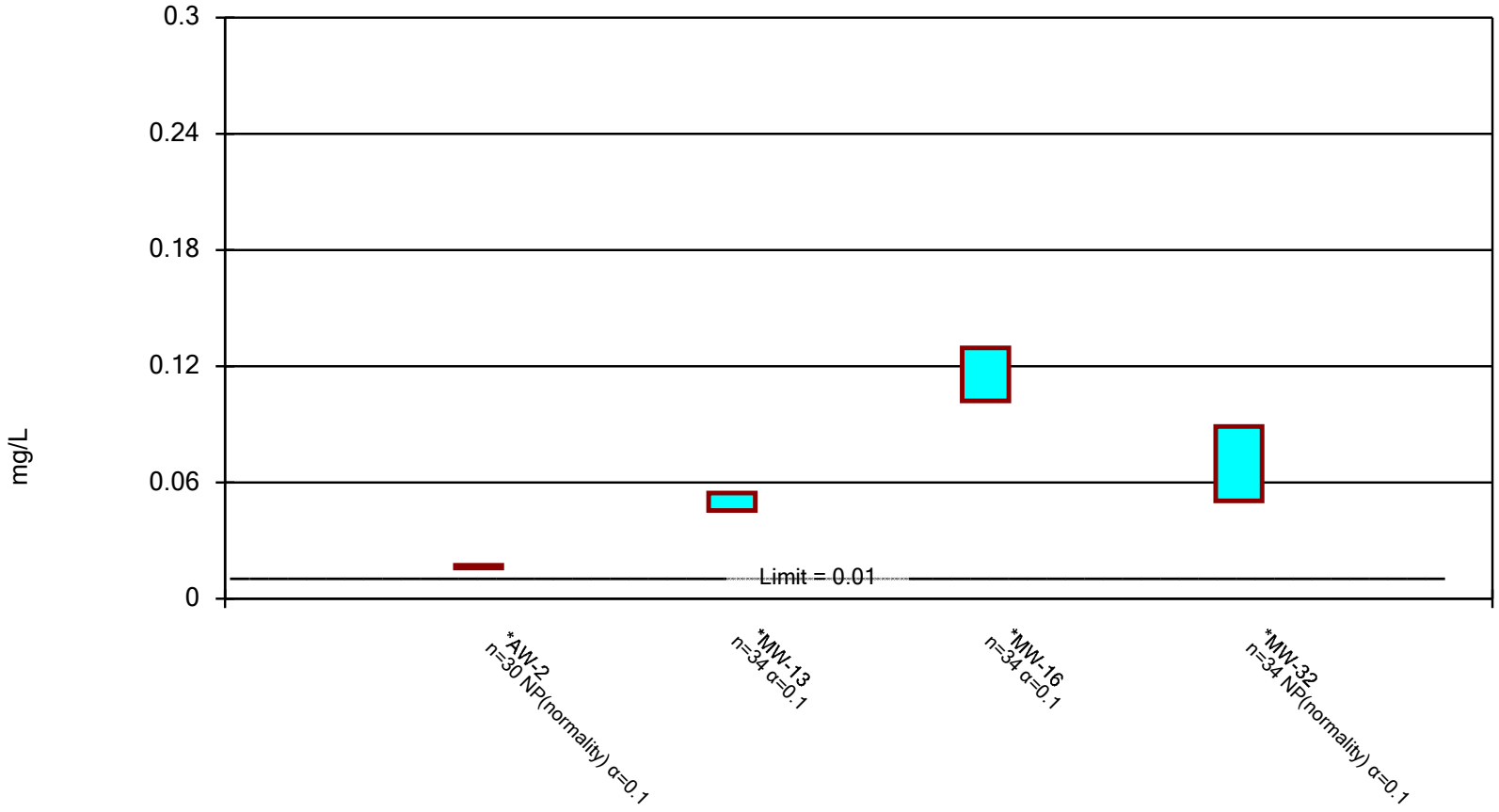
GWPS = 0.01 mg/L.

Constituent: Arsenic Analysis Run 10/19/2024 4:06 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/19/2024 2:22 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

MW-12 Arsenic Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.436591642
R Square	0.190612262
Adjusted R Square	0.165318895
Standard Error	0.026348393
Observations	34

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.005231816	0.0052318	7.5360573	0.00983671
Residual	32	0.02221561	0.0006942		
Total	33	0.027447426			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.440479263	0.108739599	4.0507715	0.0003036	0.21898395	0.6619746	0.2189839	0.661974578
X Variable 1	-7.01031E-06	2.55367E-06	-2.745188	0.0098367	-1.221E-05	-1.81E-06	-1.221E-05	-1.80865E-06

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
8/6/2008	0.113	0.1624	0.1770	0.1478	0.2094	0.1154
3/6/2009	0.1632	0.1609	0.1748	0.1471	0.2076	0.1142
7/17/2009	0.15	0.1600	0.1734	0.1466	0.2066	0.1134
9/17/2009	0.137	0.1596	0.1727	0.1464	0.2061	0.1130
3/17/2010	0.177	0.1583	0.1708	0.1458	0.2046	0.1119
9/7/2010	0.163	0.1571	0.1690	0.1451	0.2033	0.1109
3/4/2011	0.238	0.1558	0.1672	0.1445	0.2019	0.1098
9/7/2011	0.169	0.1545	0.1653	0.1437	0.2004	0.1086
3/12/2012	0.154	0.1532	0.1634	0.1430	0.1990	0.1074
9/11/2012	0.177	0.1519	0.1616	0.1422	0.1976	0.1062
3/26/2013	0.156	0.1505	0.1597	0.1413	0.1961	0.1050
9/4/2013	0.138	0.1494	0.1582	0.1406	0.1949	0.1039
3/10/2014	0.139	0.1481	0.1566	0.1396	0.1935	0.1027
9/17/2014	0.135	0.1467	0.1549	0.1386	0.1921	0.1014
3/12/2015	0.155	0.1455	0.1534	0.1376	0.1908	0.1002
10/6/2015	0.172	0.1441	0.1518	0.1363	0.1894	0.0988
3/14/2016	0.13	0.1429	0.1506	0.1353	0.1882	0.0977
8/19/2016	0.128	0.1418	0.1495	0.1342	0.1871	0.0965
3/13/2017	0.14	0.1404	0.1481	0.1326	0.1857	0.0951
8/28/2017	0.124	0.1392	0.1471	0.1313	0.1845	0.0939
3/14/2018	0.149	0.1378	0.1459	0.1297	0.1832	0.0925
8/30/2018	0.128	0.1366	0.1450	0.1282	0.1820	0.0912
3/26/2019	0.126	0.1352	0.1440	0.1264	0.1807	0.0897
8/28/2019	0.0702	0.1341	0.1432	0.1249	0.1797	0.0885
4/1/2020	0.104	0.1326	0.1423	0.1229	0.1782	0.0869
8/18/2020	0.0963	0.1316	0.1417	0.1215	0.1774	0.0858
3/25/2021	0.133	0.1301	0.1408	0.1193	0.1760	0.0842
8/23/2021	0.149	0.1290	0.1402	0.1178	0.1750	0.0830
3/30/2022	0.144	0.1275	0.1394	0.1156	0.1737	0.0813
8/30/2022	0.14	0.1264	0.1388	0.1140	0.1727	0.0801
3/23/2023	0.116	0.1250	0.1381	0.1118	0.1715	0.0784
8/24/2023	0.156	0.1239	0.1375	0.1102	0.1706	0.0772
3/28/2024	0.152	0.1224	0.1368	0.1079	0.1693	0.0754
8/20/2024	0.114	0.1213	0.1363	0.1064	0.1684	0.0743

GWPS = 0.01 mg/L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

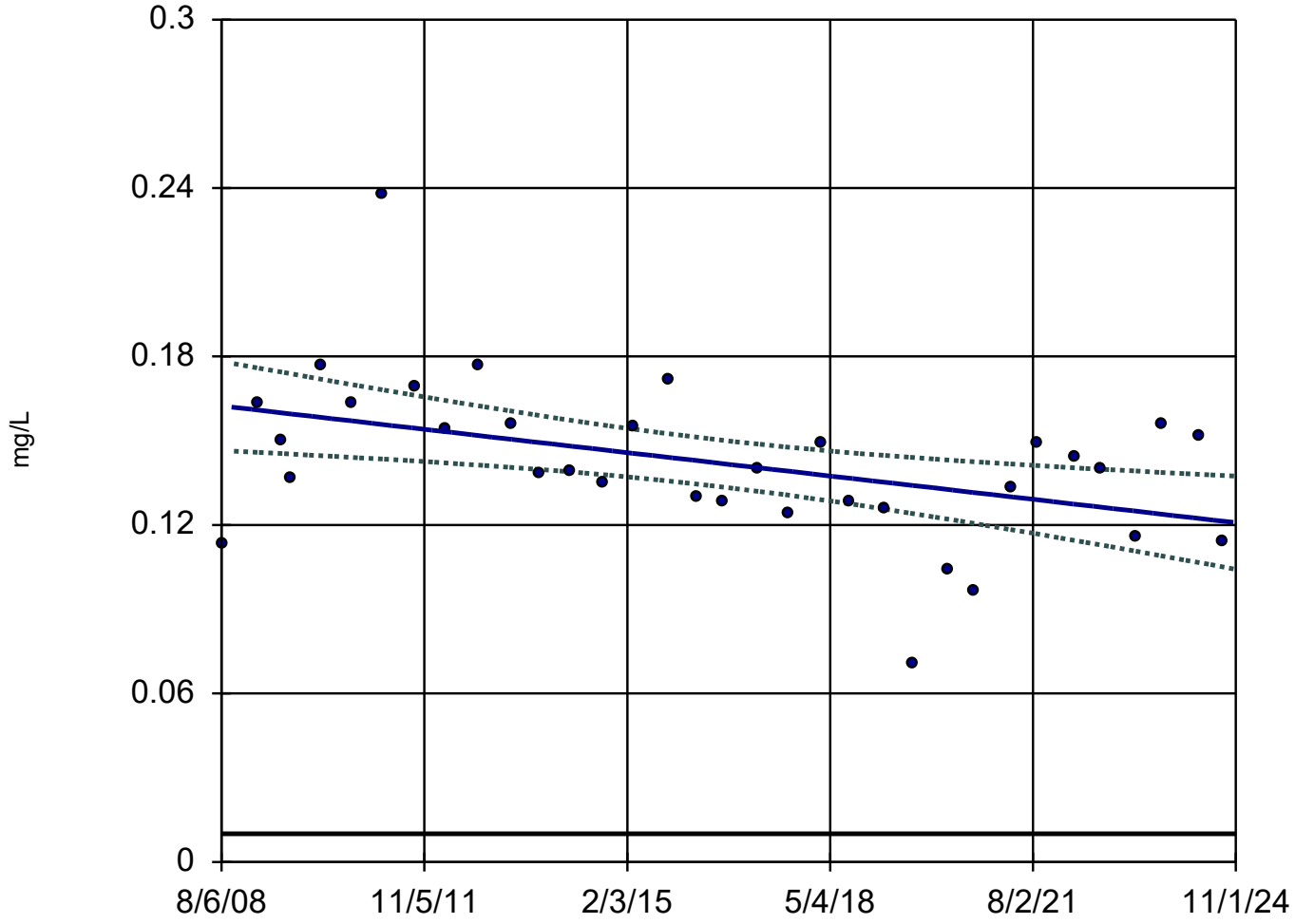
5/24/2163 -4.605 0.01

Projected Year to Completion

5/23/2166

Linear Regression and 90% Confidence Band

MW-12



n = 34

Slope = -0.00256 units/year.

alpha = 0.02
t = -2.745
critical = -2.141

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9533, critical
= 0.908.

GWPS = 0.01 mg/L.

Constituent: Arsenic Analysis Run 10/19/2024 4:04 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

MW-17 Arsenic Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.580079925
R Square	0.33649272
Adjusted R Square	0.276173876
Standard Error	0.017341164
Observations	13

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.001677564	0.0016776	5.5785671	0.03768728
Residual	11	0.003307876	0.0003007		
Total	12	0.00498544			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.810150333	0.313323096	2.5856706	0.025333	0.12053085	1.4997698	0.1205308	1.499769818
X Variable 1	-1.66483E-05	7.04869E-06	-2.361899	0.0376873	-3.216E-05	-1.13E-06	-3.216E-05	-1.13423E-06

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
8/30/2018	0.105	0.0886	0.1050	0.0722	0.1238	0.0534
3/21/2019	0.0729	0.0852	0.0995	0.0709	0.1195	0.0509
8/22/2019	0.095	0.0826	0.0954	0.0698	0.1163	0.0490
3/30/2020	0.066	0.0790	0.0899	0.0681	0.1120	0.0460
8/20/2020	0.096	0.0766	0.0865	0.0667	0.1093	0.0439
3/25/2021	0.0638	0.0730	0.0819	0.0641	0.1054	0.0406
8/24/2021	0.0599	0.0704	0.0791	0.0618	0.1028	0.0381
3/31/2022	0.0316	0.0668	0.0758	0.0578	0.0992	0.0344
8/25/2022	0.0808	0.0643	0.0741	0.0546	0.0970	0.0317
3/24/2023	0.0675	0.0608	0.0720	0.0496	0.0939	0.0277
8/29/2023	0.048	0.0582	0.0708	0.0456	0.0918	0.0246
3/24/2024	0.0554	0.0547	0.0693	0.0401	0.0891	0.0203
8/13/2024	0.0707	0.0524	0.0684	0.0363	0.0874	0.0173

GWPS = 0.01 mg/L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

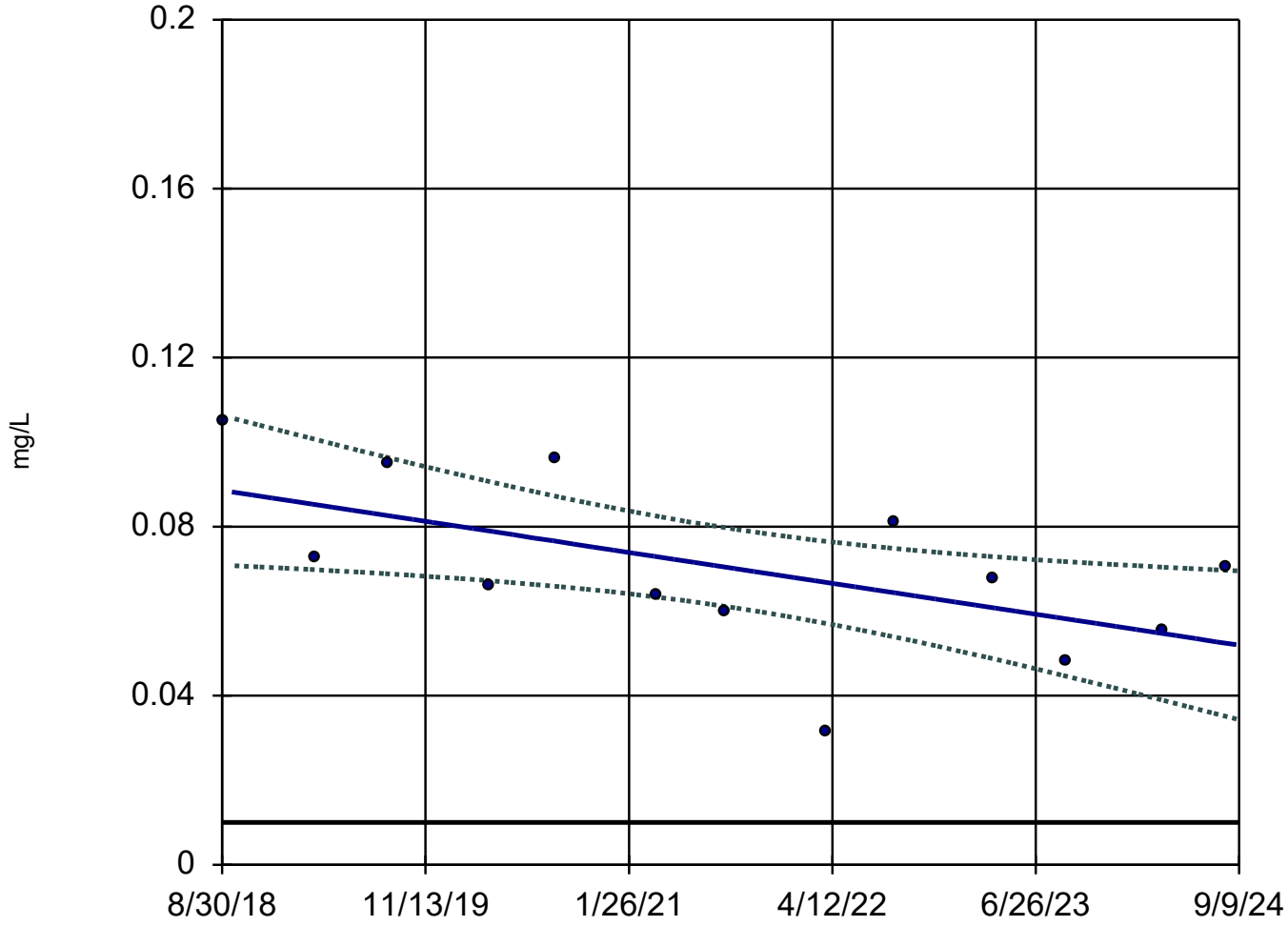
4/16/2044 -4.605 0.01

Projected Year to Completion

4/16/2047

Linear Regression and 90% Confidence Band

MW-17



n = 13

Slope = -0.006076 units/year.

alpha = 0.02
t = -2.36
critical = -2.328

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.8991, critical
= 0.814.

GWPS = 0.01 mg/L.

Constituent: Arsenic Analysis Run 10/19/2024 4:13 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

MW-24 Arsenic Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.585739196
R Square	0.343090406
Adjusted R Square	0.308516217
Standard Error	0.739077045
Observations	21

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	5.420458177	5.4204582	9.9233103	0.005271019
Residual	19	10.3784627	0.5462349		
Total	20	15.79892088			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	14.48622947	5.609858978	2.5822805	0.0182621	2.744659688	26.22779925	2.744659688	26.22779925
X Variable 1	-0.00041015	0.0001302	-3.150129	0.005271	-0.000682657	-0.000137635	-0.00068266	-0.000137635

X	Y	ln(Y)	Predicted-Log Scale	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
9/6/2012	0.205	-1.5847	-2.3946	0.0912	0.1523	0.0546	0.3615	0.0230
3/22/2013	0.143	-1.9449	-2.4754	0.0841	0.1354	0.0523	0.3290	0.0215
9/4/2013	0.0697	-2.6636	-2.5434	0.0786	0.1228	0.0503	0.3043	0.0203
3/10/2014	0.209	-1.5654	-2.6201	0.0728	0.1102	0.0481	0.2790	0.0190
9/13/2014	0.139	-1.9733	-2.6968	0.0674	0.0990	0.0459	0.2561	0.0178
3/11/2015	0.0307	-3.4835	-2.7702	0.0626	0.0896	0.0438	0.2362	0.0166
9/25/2015	0.0413	-3.1869	-2.8515	0.0578	0.0805	0.0415	0.2163	0.0154
3/9/2016	0.052	-2.9565	-2.9195	0.0540	0.0738	0.0395	0.2011	0.0145
8/10/2016	0.0409	-3.1966	-2.9827	0.0507	0.0683	0.0376	0.1882	0.0136
3/7/2017	0.0122	-4.4063	-3.0684	0.0465	0.0618	0.0350	0.1722	0.0126
8/25/2017	0.0252	-3.6809	-3.1386	0.0433	0.0573	0.0328	0.1604	0.0117
3/13/2018	0.0238	-3.7381	-3.2206	0.0399	0.0528	0.0302	0.1477	0.0108
8/27/2018	0.0645	-2.7411	-3.2891	0.0373	0.0496	0.0280	0.1381	0.0101
3/20/2019	0.02	-3.9120	-3.3732	0.0343	0.0462	0.0254	0.1274	0.0092
8/26/2019	0.0132	-4.3275	-3.4384	0.0321	0.0439	0.0235	0.1197	0.0086
3/30/2020	0.0116	-4.4568	-3.5274	0.0294	0.0412	0.0209	0.1102	0.0078
8/26/2020	0.0237	-3.7423	-3.5885	0.0276	0.0396	0.0193	0.1042	0.0073
8/19/2021	0.0925	-2.3805	-3.7353	0.0239	0.0361	0.0158	0.0914	0.0062
8/24/2022	0.0279	-3.5791	-3.8871	0.0205	0.0331	0.0127	0.0803	0.0052
8/30/2023	0.024	-3.7297	-4.0392	0.0176	0.0305	0.0102	0.0708	0.0044
8/15/2024	0.0304	-3.4933	-4.1832	0.0152	0.0283	0.0082	0.0631	0.0037

GWPS = 0.01 mg/L

Projected Year to Attain Compliance with the GWPS with First Order Attenuation

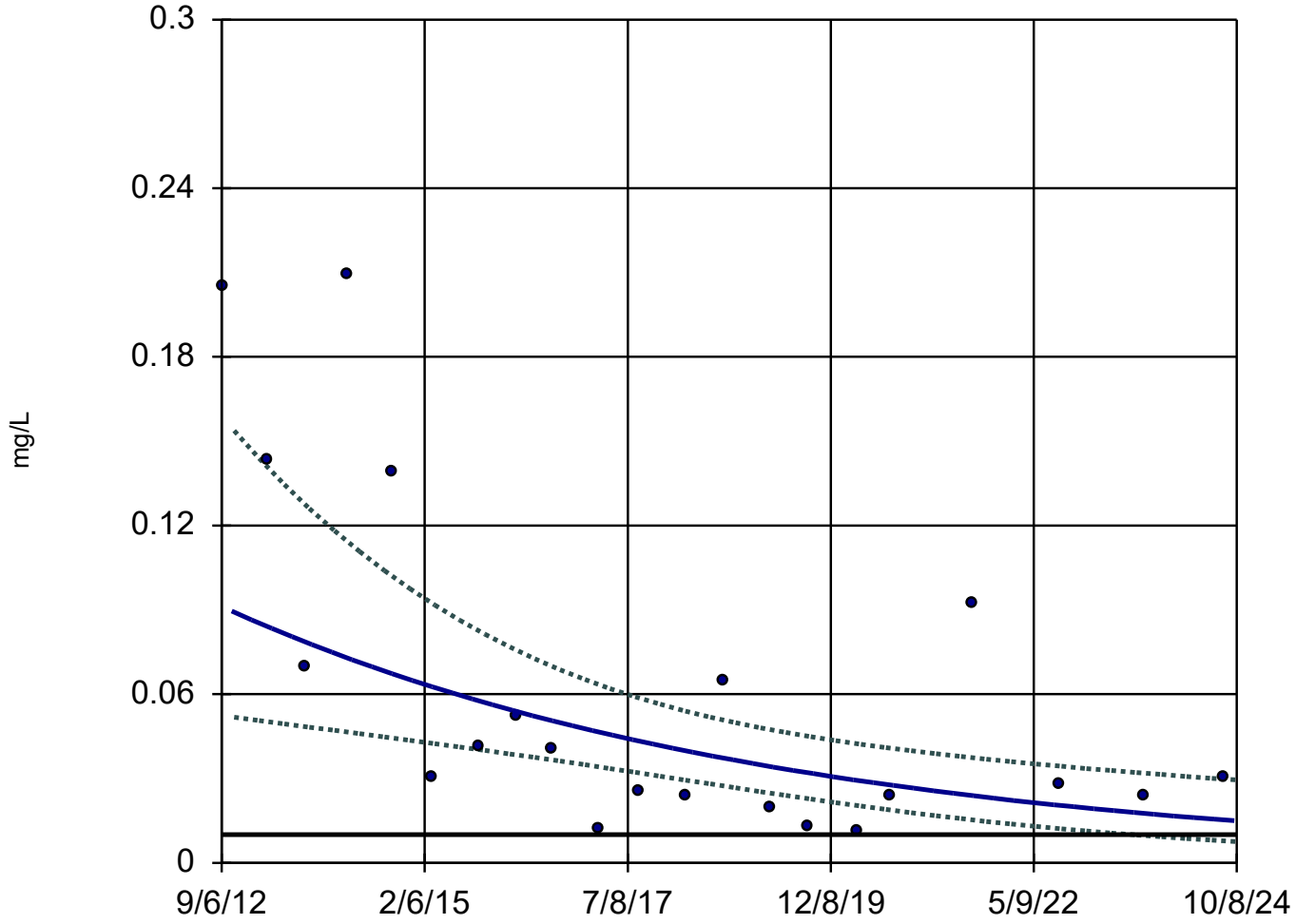
6/9/2027	-4.605	0.01

Projected Year to Completion

6/8/2030

Linear Regression and 90% Confidence Band

MW-24



n = 21

Slope = -0.1498
natural log units/year.

alpha = 0.02
t = -3.149
critical = -2.205

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.979 after natural
log transformation,
critical = 0.873.

GWPS = 0.01 mg/L.

Constituent: Arsenic Analysis Run 10/19/2024 4:17 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

MW-30 Arsenic Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.67550955
R Square	0.45631315
Adjusted R Square	0.43689577
Standard Error	0.6609502
Observations	30

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	10.26619876	10.2662	23.50023	4.20583E-05
Residual	28	12.23194458	0.436855		
Total	29	22.49814334			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	11.2790513	3.0818136	3.659875	0.001038	4.9662423	17.59186028	4.9662423	17.59186028
X Variable 1	-0.00035343	7.29067E-05	-4.847704	4.21E-05	-0.000502773	-0.00020409	-0.00050277	-0.000204087

X	Y	ln(Y)	Predicted-Log Scale	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
8/4/2008	0.0424	-3.1606	-2.7394	0.0646	0.0944	0.0442	0.2117	0.0197
3/4/2009	0.0601	-2.8117	-2.8143	0.0599	0.0857	0.0419	0.1951	0.0184
7/9/2009	0.0739	-2.6050	-2.8592	0.0573	0.0809	0.0406	0.1858	0.0177
9/9/2009	0.0516	-2.9642	-2.8811	0.0561	0.0787	0.0400	0.1814	0.0173
3/18/2010	0.0129	-4.3505	-2.9483	0.0524	0.0722	0.0381	0.1688	0.0163
9/8/2010	0.0504	-2.9878	-3.0098	0.0493	0.0668	0.0364	0.1580	0.0154
3/4/2011	0.0536	-2.9262	-3.0723	0.0463	0.0618	0.0347	0.1478	0.0145
9/8/2011	0.0445	-3.1123	-3.1388	0.0433	0.0569	0.0330	0.1378	0.0136
3/13/2012	0.0396	-3.2289	-3.2049	0.0406	0.0525	0.0313	0.1286	0.0128
9/6/2012	0.0412	-3.1893	-3.2674	0.0381	0.0487	0.0298	0.1204	0.0121
3/27/2013	0.0373	-3.2888	-3.3388	0.0355	0.0448	0.0281	0.1118	0.0113
9/4/2013	0.0534	-2.9299	-3.3957	0.0335	0.0419	0.0268	0.1055	0.0107
3/10/2014	0.0664	-2.7121	-3.4618	0.0314	0.0389	0.0253	0.0986	0.0100
9/17/2014	0.0607	-2.8018	-3.5293	0.0293	0.0362	0.0238	0.0920	0.0093
3/12/2015	0.0449	-3.1033	-3.5915	0.0276	0.0339	0.0224	0.0864	0.0088
10/1/2015	0.0885	-2.4248	-3.6633	0.0256	0.0315	0.0209	0.0804	0.0082
3/10/2016	0.0307	-3.4835	-3.7202	0.0242	0.0298	0.0197	0.0760	0.0077
8/18/2016	0.0215	-3.8397	-3.7771	0.0229	0.0282	0.0186	0.0718	0.0073
3/9/2017	0.0171	-4.0687	-3.8488	0.0213	0.0265	0.0172	0.0670	0.0068
8/25/2017	0.0107	-4.5375	-3.9085	0.0201	0.0251	0.0160	0.0632	0.0064
3/13/2018	0.0135	-4.3051	-3.9792	0.0187	0.0237	0.0148	0.0590	0.0059
8/29/2018	0.00912	-4.6973	-4.0390	0.0176	0.0225	0.0138	0.0557	0.0056
3/20/2019	0.0208	-3.8728	-4.1107	0.0164	0.0213	0.0126	0.0520	0.0052
8/29/2019	0.00519	-5.2610	-4.1680	0.0155	0.0204	0.0118	0.0493	0.0049
3/23/2020	0.0469	-3.0597	-4.2411	0.0144	0.0193	0.0107	0.0460	0.0045
8/27/2020	0.00257	-5.9638	-4.2966	0.0136	0.0185	0.0100	0.0437	0.0042
8/19/2021	0.0185	-3.9900	-4.4228	0.0120	0.0169	0.0085	0.0389	0.0037
8/25/2022	0.00856	-4.7607	-4.5539	0.0105	0.0154	0.0072	0.0345	0.0032
8/29/2023	0.00927	-4.6810	-4.6843	0.0092	0.0140	0.0061	0.0307	0.0028
8/19/2024	0.0128	-4.3583	-4.8101	0.0081	0.0129	0.0052	0.0274	0.0024

GWPS = 0.01 mg/L

Projected Year to Attain Compliance with the GWPS with First Order Attenuation

1/17/2023 -4.605 0.01

Projected Year to Completion*

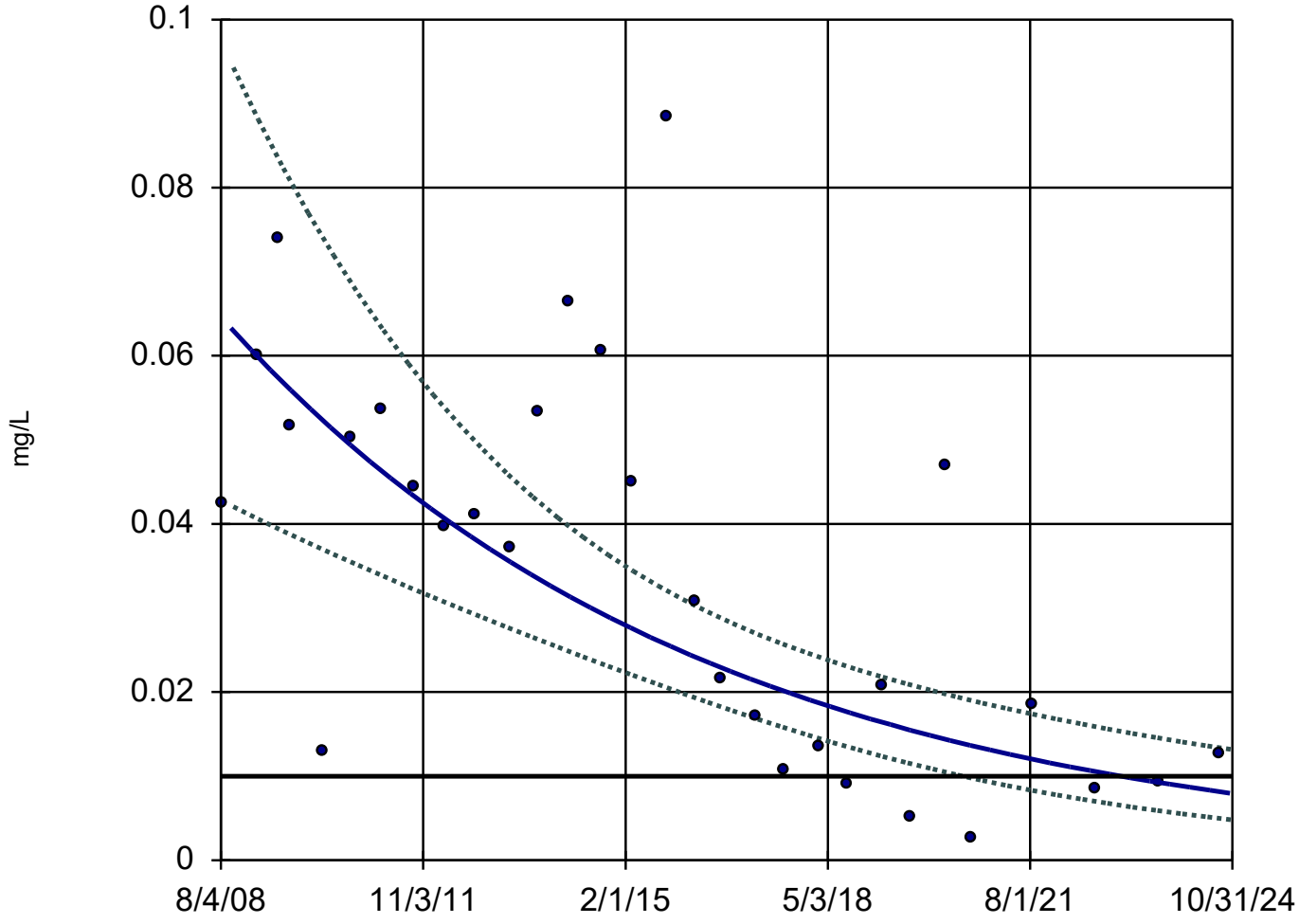
2031

MW-30 Arsenic Regression Analysis Continued

*The first order attenuation rate projected that compliance with the GWPS has already been achieved. However, the confidence band placed around the linear trend line (above), has not yet indicated compliance with the GWPS (although it is noted that upper 95% confidence limit is close to statistically achieving compliance with the GWPS) . While a decreasing trend has been identifed, more recent data doesn't fit first order attenuation as well. Assuming future decreases and a better fit for first order attenuation will occur, it is estimated that compliance with the GWPS may be achieved in 2028 with a projected year to completion of 2031.

Linear Regression and 90% Confidence Band

MW-30



n = 30

Slope = -0.1291
natural log units/year.

alpha = 0.02
t = -4.846
critical = -2.154

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.948 after natural
log transformation,
critical = 0.9.

GWPS = 0.01 mg/L.

Constituent: Arsenic Analysis Run 10/19/2024 12:30 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

MW-34 Arsenic Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.592167344
R Square	0.350662163
Adjusted R Square	0.321146807
Standard Error	0.014999655
Observations	24

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.002673027	0.002673	11.880669	0.00229906
Residual	22	0.004949772	0.000225		
Total	23	0.0076228			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.36992037	0.094773929	3.903187	0.0007635	0.17337127	0.5664695	0.1733713	0.566469469
X Variable 1	-7.63098E-06	2.21391E-06	-3.446835	0.0022991	-1.222E-05	-3.04E-06	-1.222E-05	-3.03961E-06

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
3/4/2011	0.082	0.0601	0.0699	0.0502	0.0876	0.0325
9/8/2011	0.0563	0.0586	0.0678	0.0494	0.0860	0.0313
3/7/2012	0.058	0.0572	0.0659	0.0486	0.0844	0.0301
9/11/2012	0.0585	0.0558	0.0639	0.0477	0.0828	0.0288
3/22/2013	0.0862	0.0543	0.0619	0.0468	0.0812	0.0275
9/3/2013	0.0516	0.0531	0.0602	0.0460	0.0798	0.0264
3/7/2014	0.0619	0.0517	0.0583	0.0450	0.0783	0.0251
9/17/2014	0.0402	0.0502	0.0564	0.0439	0.0767	0.0237
3/12/2015	0.0483	0.0488	0.0548	0.0429	0.0753	0.0224
10/6/2015	0.0492	0.0473	0.0529	0.0417	0.0736	0.0209
3/14/2016	0.0194	0.0460	0.0515	0.0406	0.0724	0.0197
8/12/2016	0.0205	0.0449	0.0502	0.0396	0.0712	0.0186
3/13/2017	0.0305	0.0433	0.0485	0.0380	0.0695	0.0170
8/28/2017	0.0329	0.0420	0.0473	0.0367	0.0683	0.0157
3/9/2018	0.0496	0.0405	0.0460	0.0351	0.0668	0.0142
8/30/2018	0.0371	0.0392	0.0448	0.0335	0.0656	0.0128
3/22/2019	0.0226	0.0376	0.0436	0.0316	0.0641	0.0112
8/27/2019	0.0237	0.0364	0.0427	0.0301	0.0629	0.0099
4/1/2020	0.0217	0.0348	0.0416	0.0279	0.0614	0.0081
8/20/2020	0.0245	0.0337	0.0408	0.0265	0.0604	0.0069
8/25/2021	0.0498	0.0309	0.0390	0.0227	0.0579	0.0038
8/30/2022	0.0399	0.0280	0.0373	0.0187	0.0554	0.0006
8/24/2023	0.0418	0.0253	0.0357	0.0148	0.0531	-0.0025
8/20/2024	0.0359	0.0225	0.0342	0.0109	0.0508	-0.0057

GWPS = 0.01 mg/L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

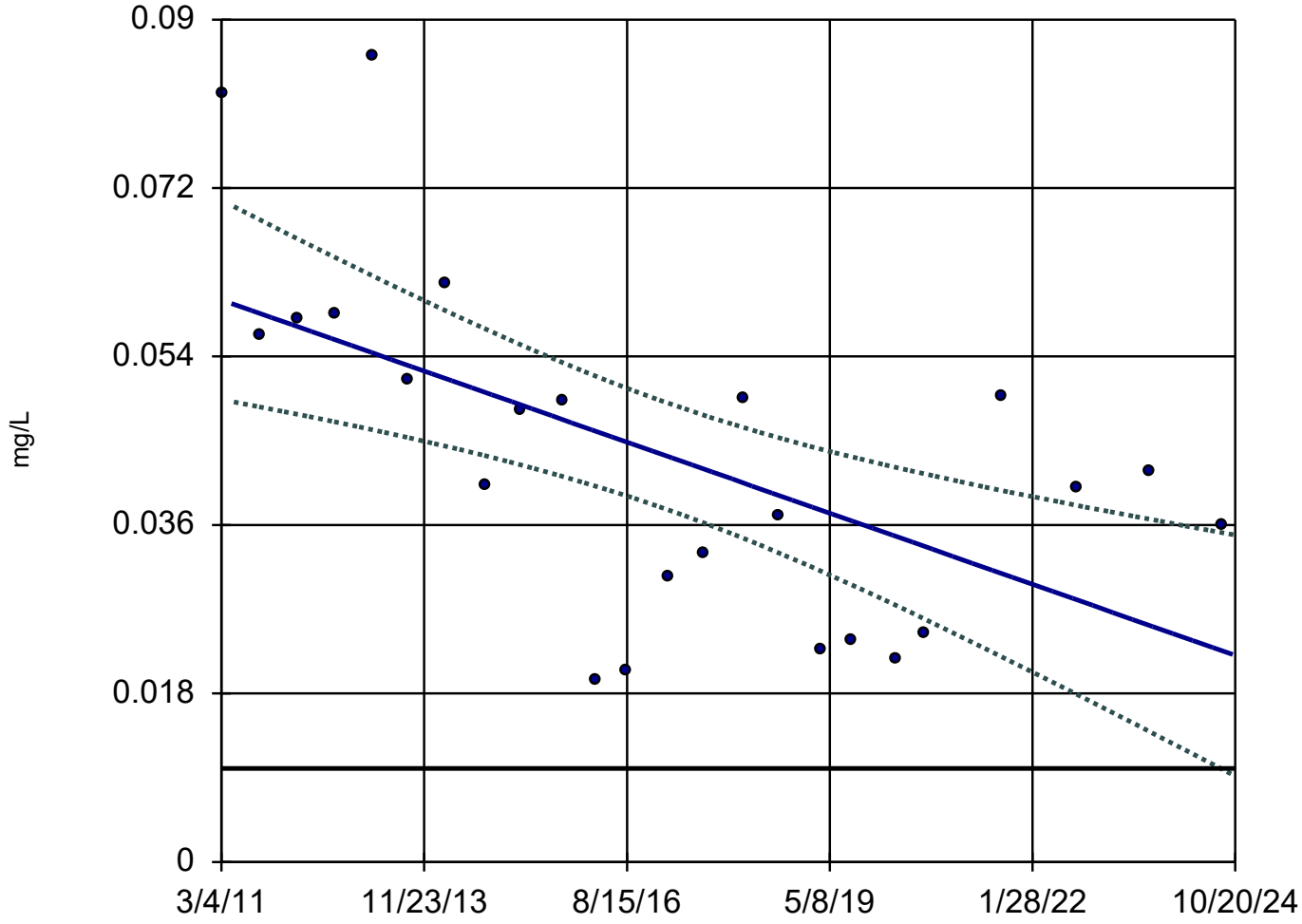
9/19/2040 -4.605 0.01

Projected Year to Completion

9/19/2043

Linear Regression and 90% Confidence Band

MW-34



n = 24

Slope = -0.002787 units/year.

alpha = 0.02
t = -3.445
critical = -2.183

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9803, critical
= 0.884.

GWPS = 0.01 mg/L.

Constituent: Arsenic Analysis Run 10/19/2024 12:41 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

MW-35 Cobalt Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.786765156
R Square	0.61899941
Adjusted R Square	0.597832711
Standard Error	0.278389312
Observations	20

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	2.266429466	2.266429	29.24402	3.8745E-05
Residual	18	1.395010964	0.077501		
Total	19	3.661440431			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	7.33595614	2.226120928	3.295399	0.004022	2.65904962	12.01286	2.65904962	12.01286266
X Variable 1	-0.000278842	5.15631E-05	-5.407774	3.87E-05	-0.0003872	-0.000171	-0.0003872	-0.000170512

X	Y	ln(Y)	Predicted-Log Scale	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
9/5/2012	0.0185	-3.98998	-4.14049	0.01592	0.01961	0.01292	0.02693	0.00941
9/4/2013	0.0162	-4.12274	-4.24195	0.01438	0.01724	0.01199	0.02409	0.00858
3/10/2014	0.0176	-4.03986	-4.29408	0.01365	0.01615	0.01153	0.02276	0.00819
9/17/2014	0.00887	-4.72508	-4.34742	0.01294	0.01512	0.01107	0.02149	0.00779
3/12/2015	0.0066	-5.02069	-4.39646	0.01232	0.01424	0.01066	0.02040	0.00744
9/24/2015	0.00896	-4.71499	-4.45110	0.01167	0.01334	0.01020	0.01925	0.00707
3/11/2016	0.0128	-4.35831	-4.49809	0.01113	0.01262	0.00982	0.01833	0.00676
8/18/2016	0.0128	-4.35831	-4.54270	0.01064	0.01199	0.00945	0.01750	0.00647
3/6/2017	0.0136	-4.29769	-4.59847	0.01007	0.01127	0.00900	0.01653	0.00613
8/28/2017	0.00823	-4.79997	-4.64727	0.00959	0.01069	0.00860	0.01573	0.00584
3/13/2018	0.00771	-4.86524	-4.70220	0.00908	0.01011	0.00815	0.01488	0.00553
8/29/2018	0.00919	-4.68964	-4.74932	0.00866	0.00966	0.00776	0.01420	0.00528
3/20/2019	0.00952	-4.65436	-4.80593	0.00818	0.00916	0.00730	0.01343	0.00498
8/23/2019	0.0083	-4.79150	-4.84943	0.00783	0.00882	0.00696	0.01288	0.00476
3/31/2020	0.0136	-4.29769	-4.91105	0.00736	0.00837	0.00648	0.01213	0.00447
8/27/2020	0.0064	-5.05146	-4.95260	0.00707	0.00809	0.00617	0.01166	0.00428
8/19/2021	0.00654	-5.02982	-5.05214	0.00640	0.00748	0.00547	0.01062	0.00385
8/29/2022	0.00467	-5.36660	-5.15671	0.00576	0.00691	0.00480	0.00965	0.00344
8/28/2023	0.00535	-5.23066	-5.25821	0.00520	0.00642	0.00422	0.00881	0.00307
8/21/2024	0.00389	-5.54935	-5.35831	0.00471	0.00597	0.00371	0.00807	0.00275

GWPS (Background) [(1)] = 0.008 mg//L

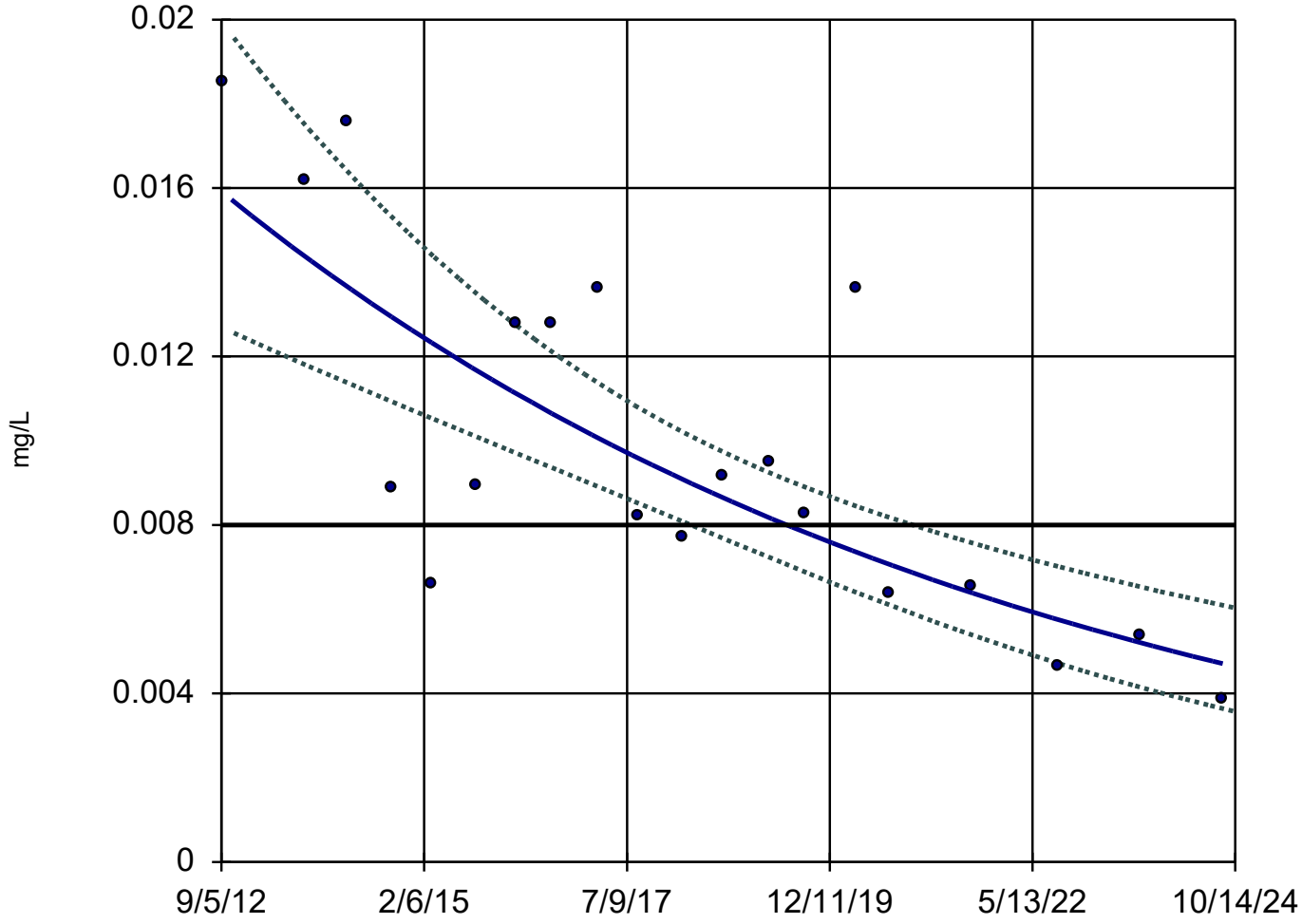
[(1)] Using the *one-sample* testing method, the fixed GWPS was calculated as the background upper tolerance limit with 95% confidence and 95% coverage.
Note that a nonparametric tolerance limit was utilized in the cobalt background calculation. The nonparametric limit achieves 85% coverage.

First Achieved Compliance with the GWPS
Fall 2022

Projected Year to Completion
Fall 2024

Linear Regression and 90% Confidence Band

MW-35



n = 20

Slope = -0.1018
natural log units/year.

alpha = 0.02
t = -5.405
critical = -2.214

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9739 after natural
log transformation,
critical = 0.868.

GWPS (Background) = 0.008.

Constituent: Cobalt Analysis Run 10/19/2024 12:52 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

AW-2 Thallium Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.586524907
R Square	0.344011467
Adjusted R Square	0.307567659
Standard Error	0.001021222
Observations	20

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	9.8444E-06	9.844E-06	9.439504	0.00656389
Residual	18	1.87721E-05	1.043E-06		
Total	19	2.86165E-05			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.029638645	0.008284729	3.5775032	0.0021522	0.01223308	0.0470442	0.0122331	0.047044215
X Variable 1	-5.89508E-07	1.91874E-07	-3.072378	0.0065639	-9.926E-07	-1.864E-07	-9.926E-07	-1.86397E-07

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
3/27/2013	0.00684	0.00526	0.00598	0.00454	0.00717	0.00335
9/5/2013	0.00438	0.00516	0.00584	0.00449	0.00706	0.00327
3/11/2014	0.00233	0.00505	0.00568	0.00443	0.00693	0.00317
9/11/2014	0.00489	0.00494	0.00552	0.00436	0.00681	0.00308
3/9/2015	0.00647	0.00484	0.00537	0.00430	0.00669	0.00299
9/16/2015	0.00555	0.00472	0.00522	0.00423	0.00656	0.00289
3/4/2016	0.00434	0.00462	0.00509	0.00416	0.00645	0.00279
8/9/2016	0.00412	0.00453	0.00497	0.00409	0.00636	0.00271
3/7/2017	0.00444	0.00441	0.00482	0.00399	0.00623	0.00259
8/23/2017	0.00406	0.00431	0.00471	0.00391	0.00612	0.00249
3/7/2018	0.00578	0.00419	0.00459	0.00380	0.00601	0.00238
8/23/2018	0.00364	0.00409	0.00449	0.00369	0.00591	0.00228
3/18/2019	0.00404	0.00397	0.00439	0.00355	0.00579	0.00215
8/21/2019	0.00429	0.00388	0.00431	0.00344	0.00570	0.00205
3/24/2020	0.00321	0.00375	0.00422	0.00328	0.00558	0.00192
8/18/2020	0.00279	0.00366	0.00416	0.00317	0.00550	0.00183
8/24/2021	0.00369	0.00345	0.00402	0.00287	0.00531	0.00158
8/22/2022	0.00285	0.00323	0.00390	0.00256	0.00513	0.00134
8/22/2023	0.00277	0.00302	0.00379	0.00224	0.00495	0.00108
8/12/2024	0.00341	0.00281	0.00368	0.00193	0.00478	0.00083

GWPS = 0.002 mg//L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

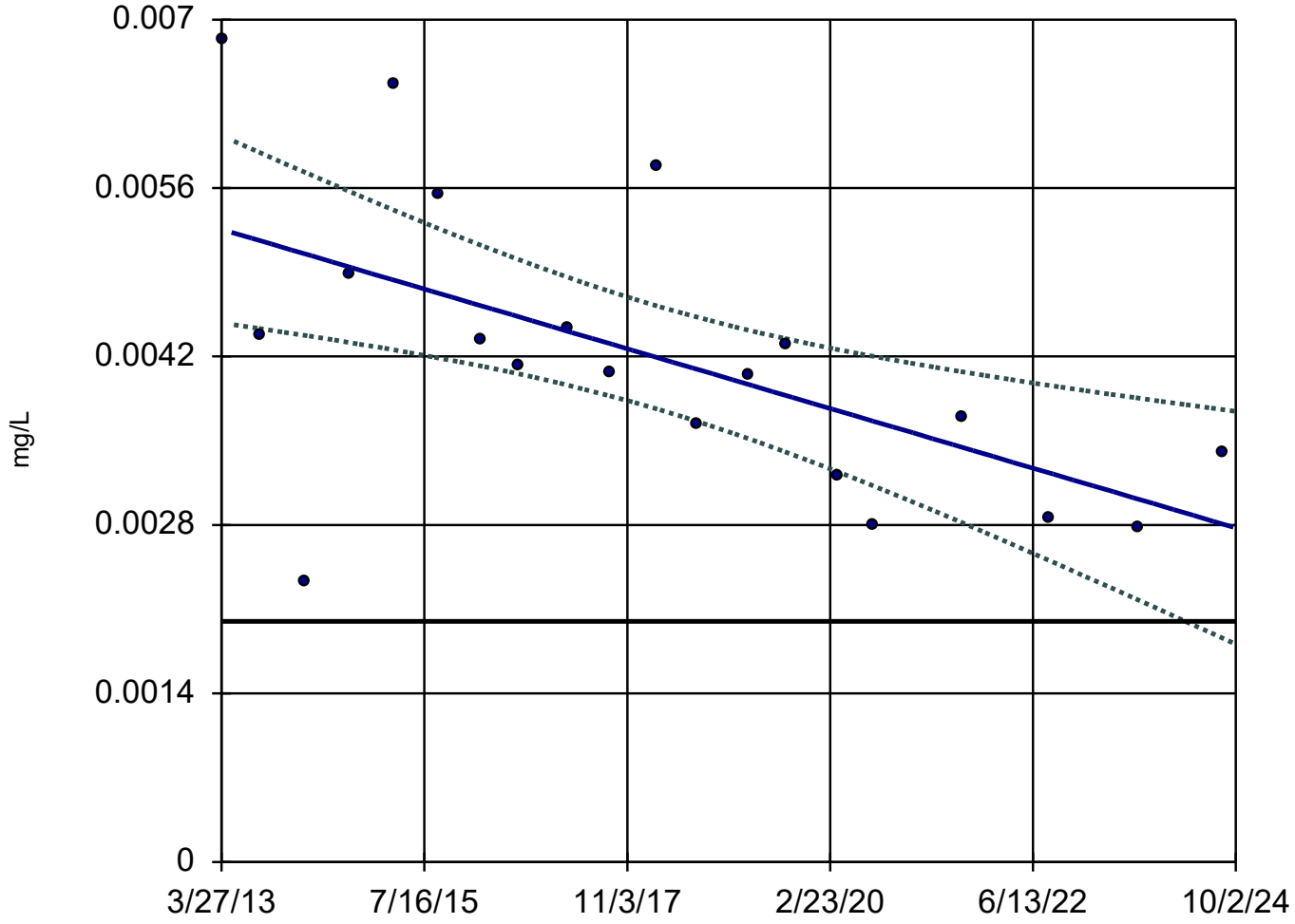
8/30/2032 -6.215 0.002

Projected Year to Completion

8/30/2035

Linear Regression and 90% Confidence Band

AW-2



n = 20

Slope = -0.0002153 units/year.

alpha = 0.02
t = -3.071
critical = -2.214

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9105, critical
= 0.868.

GWPS = 0.002 mg/L.

Constituent: Thallium Analysis Run 10/19/2024 1:13 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

MW-20 Thallium Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.586101629
R Square	0.34351512
Adjusted R Square	0.308963284
Standard Error	0.001324731
Observations	21

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	1.74474E-05	1.745E-05	9.9420222	0.00523615
Residual	19	3.33433E-05	1.755E-06		
Total	20	5.07907E-05			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.034384665	0.010057339	3.4188631	0.0028789	0.01333441	0.0554349	0.0133344	0.055434917
X Variable 1	-7.35961E-07	2.33409E-07	-3.153097	0.0052362	-1.224E-06	-2.474E-07	-1.224E-06	-2.47431E-07

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
9/9/2012	0.00661	0.00409	0.00501	0.00317	0.00656	0.00162
3/29/2013	0.00405	0.00394	0.00480	0.00309	0.00639	0.00150
9/5/2013	0.00491	0.00383	0.00463	0.00303	0.00625	0.00140
3/7/2014	0.00132	0.00369	0.00444	0.00295	0.00610	0.00128
9/11/2014	0.00501	0.00355	0.00424	0.00286	0.00595	0.00116
3/16/2015	0.00337	0.00342	0.00406	0.00278	0.00579	0.00104
9/18/2015	0.00348	0.00328	0.00388	0.00268	0.00565	0.00091
3/16/2016	0.00114	0.00315	0.00371	0.00259	0.00550	0.00079
8/24/2016	0.00223	0.00303	0.00356	0.00249	0.00538	0.00068
3/6/2017	0.00185	0.00289	0.00340	0.00237	0.00523	0.00054
8/28/2017	0.00347	0.00276	0.00326	0.00226	0.00510	0.00041
3/14/2018	0.00366	0.00261	0.00311	0.00211	0.00496	0.00027
9/4/2018	0.00168	0.00248	0.00300	0.00197	0.00483	0.00014
3/20/2019	0.0005	0.00234	0.00287	0.00180	0.00469	-0.00001
8/28/2019	0.00182	0.00222	0.00278	0.00166	0.00458	-0.00014
3/31/2020	0.000456	0.00206	0.00267	0.00145	0.00443	-0.00031
8/27/2020	0.00269	0.00195	0.00259	0.00131	0.00433	-0.00043
8/25/2021	0.00331	0.00168	0.00243	0.00094	0.00409	-0.00072
8/29/2022	0.00175	0.00141	0.00227	0.00055	0.00386	-0.00103
8/28/2023	0.00153	0.00114	0.00213	0.00016	0.00364	-0.00135
8/15/2024	0.00157	0.00088	0.00199	-0.00022	0.00343	-0.00166

GWPS = 0.002 mg//L

First Achieved Compliance with the GWPS

Fall 2024

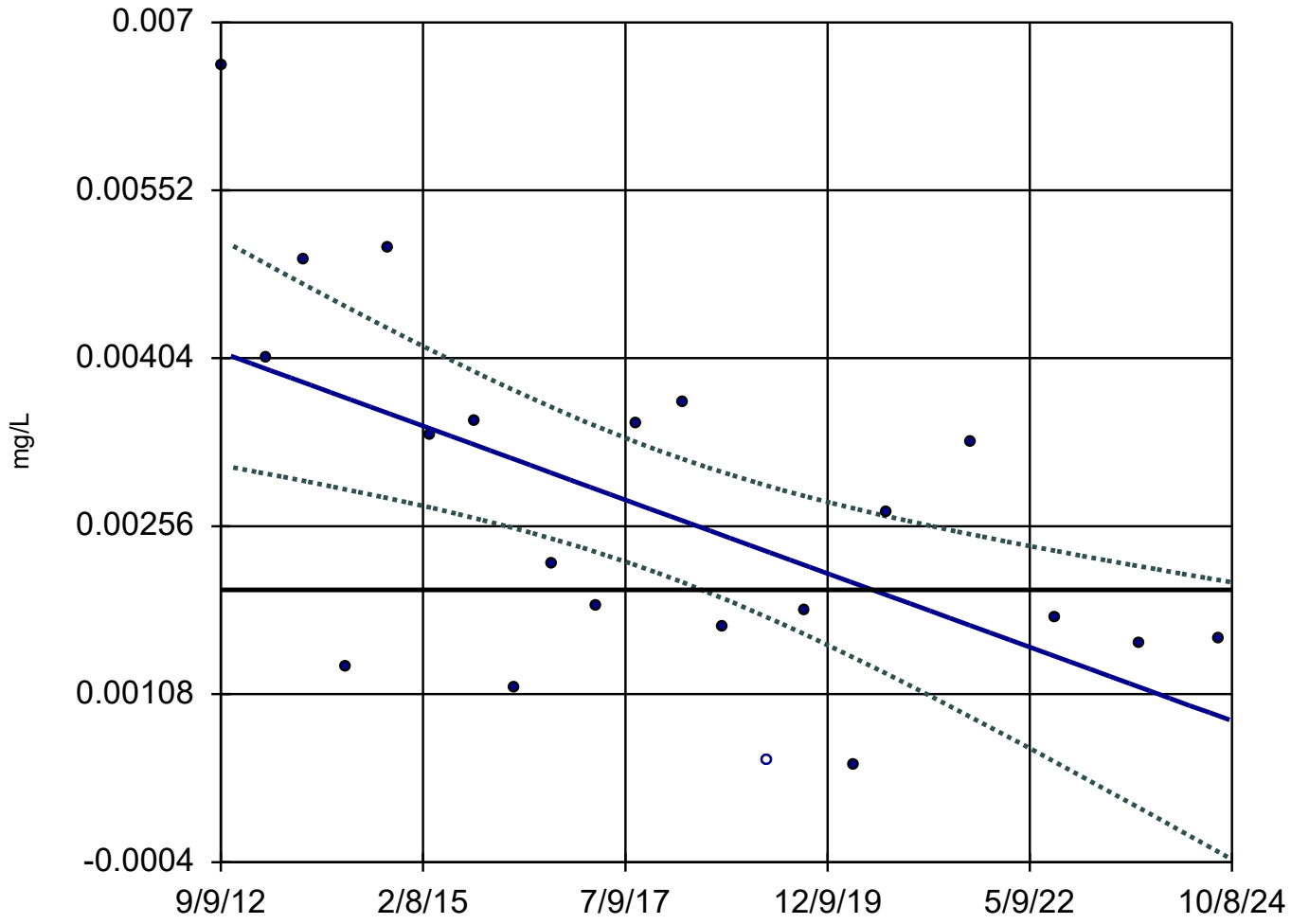
Projected Year to Completion

Fall 2026

Hollow symbols indicate censored values.

Linear Regression and 90% Confidence Band

MW-20



n = 21
4.762% NDs

Slope = -0.0002688 units/year.

alpha = 0.02
t = -3.152
critical = -2.205

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9763, critical
= 0.873.

GWPS = 0.002 mg/L.

Constituent: Thallium Analysis Run 10/19/2024 1:19 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

MW-34 Vinyl Chloride Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.77670763
R Square	0.603274743
Adjusted R Square	0.589105984
Standard Error	4.131978718
Observations	30

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	726.9415227	726.94152	42.57781	4.5082E-07
Residual	28	478.0509476	17.073248		
Total	29	1204.99247			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	135.6949068	19.2745974	7.0400903	1.172E-07	96.2126838	175.17713	96.212684	175.1771298
X Variable 1	-0.002975263	0.000455967	-6.525167	4.508E-07	-0.0039093	-0.002041	-0.0039093	-0.002041256

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
8/6/2008	9.81	17.68	20.05	15.30	25.10	10.26
3/6/2009	23.2	17.05	19.28	14.81	24.42	9.67
7/17/2009	19.8	16.65	18.80	14.50	24.00	9.30
9/17/2009	14.1	16.47	18.58	14.35	23.81	9.13
3/19/2010	15.7	15.92	17.92	13.92	23.23	8.61
9/9/2010	18.3	15.40	17.30	13.50	22.69	8.12
3/4/2011	16.9	14.88	16.68	13.08	22.14	7.62
9/8/2011	21.8	14.32	16.02	12.62	21.55	7.09
3/7/2012	20.5	13.78	15.40	12.17	20.99	6.57
9/11/2012	12.2	13.22	14.75	11.69	20.42	6.03
3/22/2013	12.5	12.65	14.11	11.20	19.83	5.47
9/3/2013	7.82	12.16	13.56	10.76	19.33	4.99
3/7/2014	8.2	11.61	12.96	10.26	18.77	4.45
9/17/2014	3.99	11.03	12.34	9.72	18.18	3.88
3/12/2015	12.8	10.51	11.80	9.22	17.65	3.36
10/6/2015	11.5	9.89	11.17	8.61	17.04	2.75
3/14/2016	5.78	9.41	10.71	8.12	16.56	2.27
8/12/2016	7.38	8.96	10.28	7.65	16.12	1.81
3/13/2017	5.16	8.33	9.69	6.98	15.49	1.17
8/28/2017	7.49	7.83	9.24	6.43	15.00	0.67
3/9/2018	7.27	7.26	8.73	5.79	14.44	0.08
8/30/2018	9.4	6.74	8.28	5.20	13.94	-0.46
3/22/2019	0.5	6.13	7.77	4.50	13.35	-1.08
8/27/2019	0.5	5.66	7.38	3.95	12.90	-1.57
4/1/2020	1.63	5.02	6.85	3.19	12.28	-2.25
8/20/2020	5.79	4.60	6.51	2.69	11.88	-2.69
8/25/2021	8.14	3.50	5.63	1.36	10.84	-3.85
8/30/2022	5.37	2.39	4.76	0.03	9.81	-5.02
8/24/2023	6.35	1.33	3.93	-1.28	8.82	-6.17
8/20/2024	0.759	0.25	3.10	-2.60	7.83	-7.34

GWPS = 2 ug/L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

1/2/2024 0.69 2.00

Projected Year to Completion

2029

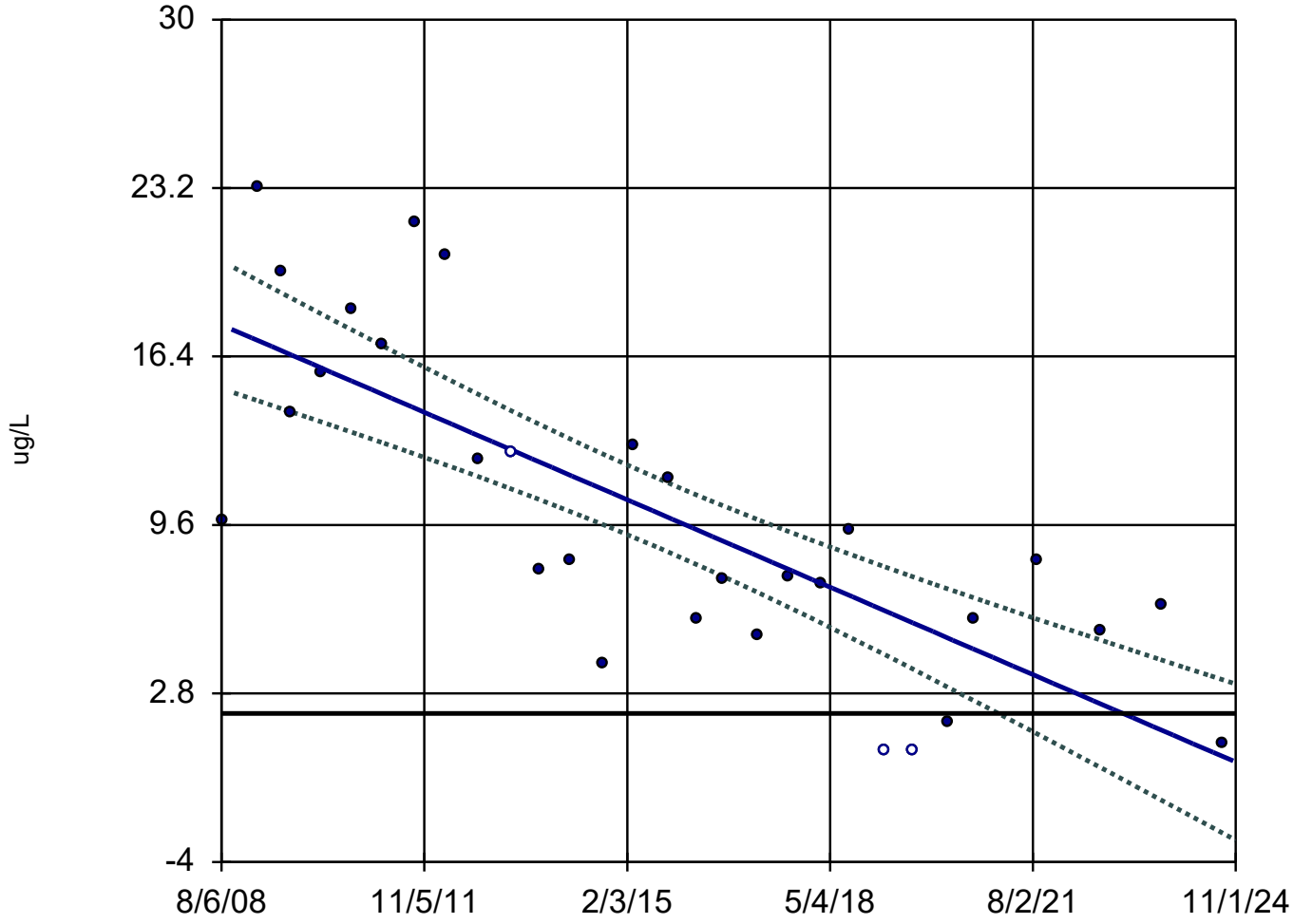
MW-34 Vinyl Chloride Regression Analysis Continued

*The first order attenuation rate projected that compliance with the GWPS has already been achieved. However, the confidence band placed around the linear trend line (above), has not yet indicated compliance with the GWPS (although it is noted that upper 95% confidence limit is close to statistically achieving compliance with the GWPS, and the 2019, Apr. 2020, and Aug. 2024 individual results were below the GWPS). While an overall decreasing trend has been identifed, individual results have fluctuated above and below the linear trend line. Indidivual results were below the GWPS between Mar. 2019 and Apr. 2020, above the GWPS between Aug. 2020 and Aug. 2023, and back below the GWPS in Aug. 2024. Assuming future concentrations remain below the GWPS and below or near the linear trend line, it is estimated that compliance with the GWPS may be achieved in 2026 with a projected year to completion of 2029.

Hollow symbols indicate censored values.

Linear Regression and 90% Confidence Band

MW-34



n = 30
10% NDs

Slope = -1.087
units/year.

alpha = 0.02
t = -6.523
critical = -2.154

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9786, critical
= 0.9.

GWPS = 2 ug/L.

Constituent: Vinyl Chloride Analysis Run 10/19/2024 1:27 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Upper Bedrock Cobalt
GWPS as Background - *Two-Sample* Prediction Limit Testing Method
Prediction Limits in Corrective Action Mode [1]

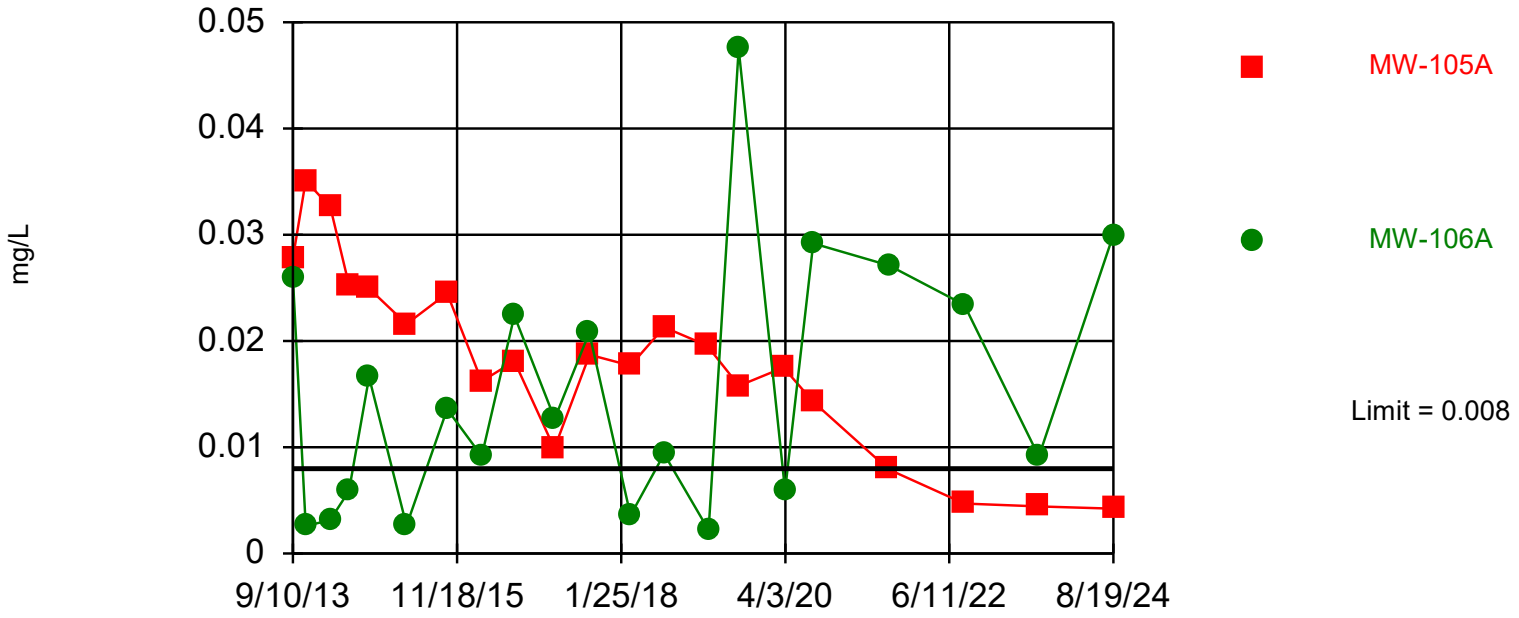
Constituent	Well	Upper Limit	Date	Observation	Exceed	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Delineation Monitoring Locations													
Cobalt (mg/L)	MW-105A	0.008	8/19/2024	0.00424	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Cobalt (mg/L)	MW-106A	0.008	8/19/2024	0.03	Yes	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2
Corrective Action Monitoring Locations													
Cobalt (mg/L)	MW-35	0.008	8/21/2024	0.00389	No	40	n/a	n/a	33	n/a	n/a	0.001061	NP Inter (normality) 1 of 2

[1] Interwell prediction limit data consists of the detected Appendix I and II parameters in the combined MW-37 and MW-101A data set. Note that background data set adjustments were incorporated in accordance with Section 3.1 of the Fall 2024 Statistical Evaluation memo.

Exceeds Limit: MW-106A

Prediction Limit - Delineation Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

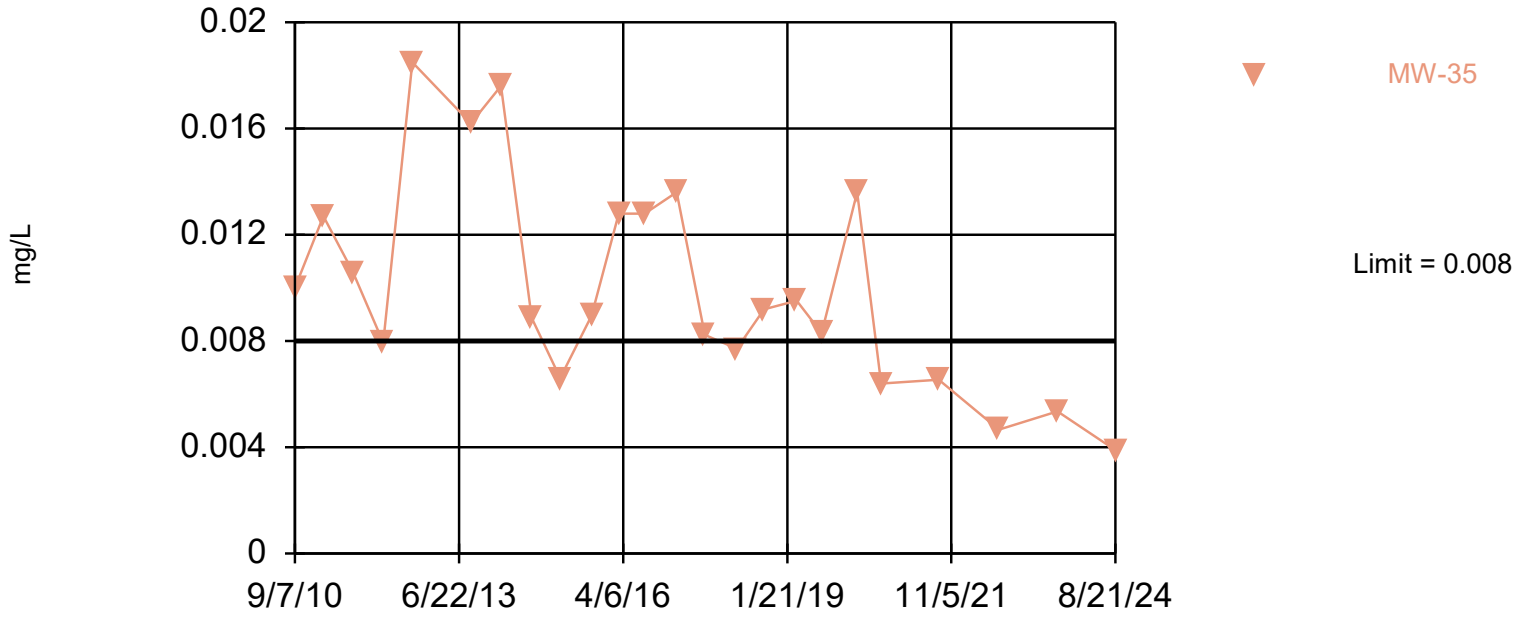
Constituent: Cobalt Analysis Run 10/19/2024 2:04 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Within Limit

Prediction Limit - Corrective Action Monitoring

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Annual per-constituent alpha = 0.04157. Individual comparison alpha = 0.001061 (1 of 2).

Constituent: Cobalt Analysis Run 10/19/2024 2:05 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Deeper Bedrock

Confidence Interval - Corrective Action Mode [1]

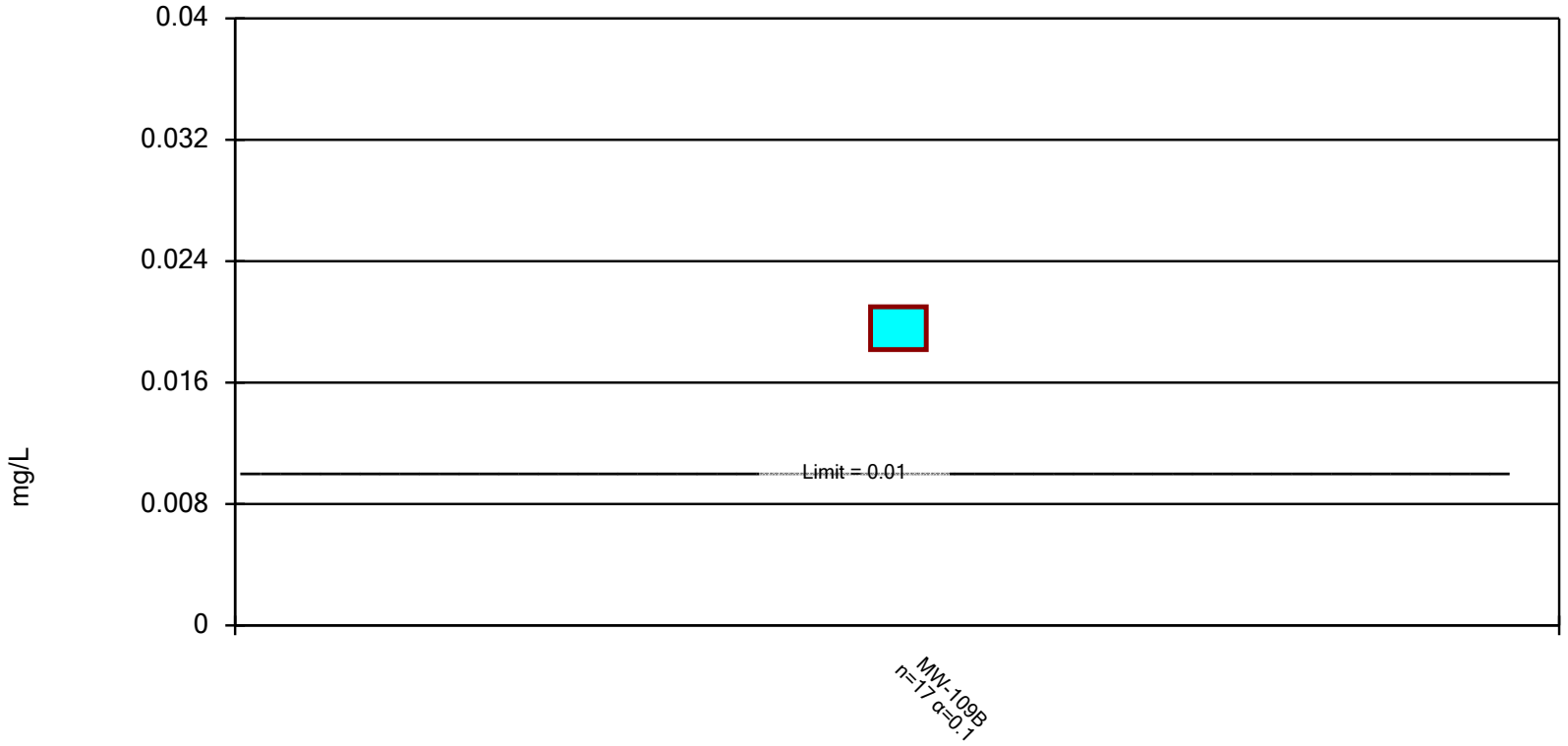
Constituent Name	Well	Upper Limit	Lower Limit	Compliance Limit [2]	Exceeds	N	Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Delineation Monitoring Locations													
Arsenic (mg/L)	MW-109B	0.0210	0.0182	0.01	Yes	17	0.0196	0.0043	0	None	No	0.1	Param.
Cobalt (mg/L)	MW-105B	0.00333	0.00264	0.0021	Yes	17	0.0036	0.0020	0	None	No	0.1	NP (normality)
Cobalt (mg/L)	MW-109B	Evaluated with Linear Regression Confidence Band Testing Method. Significant Decreasing Trend in Data.											
Thallium (mg/L)	MW-109B	0.00497	0.00459	0.002	Yes	17	0.00478	0.00058	0	None	No	0.1	Param.
Corrective Action Monitoring Locations													
Arsenic (mg/L)	CRL-9	0.0400	0.0367	0.01	Yes	30	0.0385	0.0093	0	None	No	0.1	NP (normality)
Arsenic (mg/L)	MW-14	0.0264	0.0199	0.01	Yes	34	0.0294	0.0268	0	None	No	0.1	NP (normality)
Arsenic (mg/L)	MW-22	0.0517	0.0415	0.01	Yes	30	0.0482	0.0208	0	None	No	0.1	NP (normality)
Arsenic (mg/L)	MW-33	0.0386	0.0345	0.01	Yes	34	0.0365	0.0090	0	None	No	0.1	Param.
Arsenic (mg/L)	MW-36	0.0694	0.0586	0.01	Yes	30	0.0628	0.0181	0	None	No	0.1	NP (normality)
Cobalt (mg/L)	AW-6	0.00919	0.00854	0.0021	Yes	25	0.0089	0.0012	0	None	No	0.1	Param.
Cobalt (mg/L)	CRL-9	0.00498	0.00408	0.0021	Yes	17	0.0045	0.0014	0	None	No	0.1	Param.
Cobalt (mg/L)	MW-22	0.00315	0.00287	0.0021	Yes	17	0.0030	0.0004	0	None	No	0.1	Param.

[1] Under corrective action mode, an SSL is rejected when the upper confidence limit lies below the groundwater protection standard (compliance limit).

[2] Value is the 40 CFR Part 141 Safe Drinking Water Act MCL or the IAC 567 Chapter 137 Statewide Standard for a Protected Groundwater Source.

Parametric Confidence Interval, Corrective Action Mode

Compliance limit is exceeded. Normality Test: Shapiro Wilk, alpha based on n.

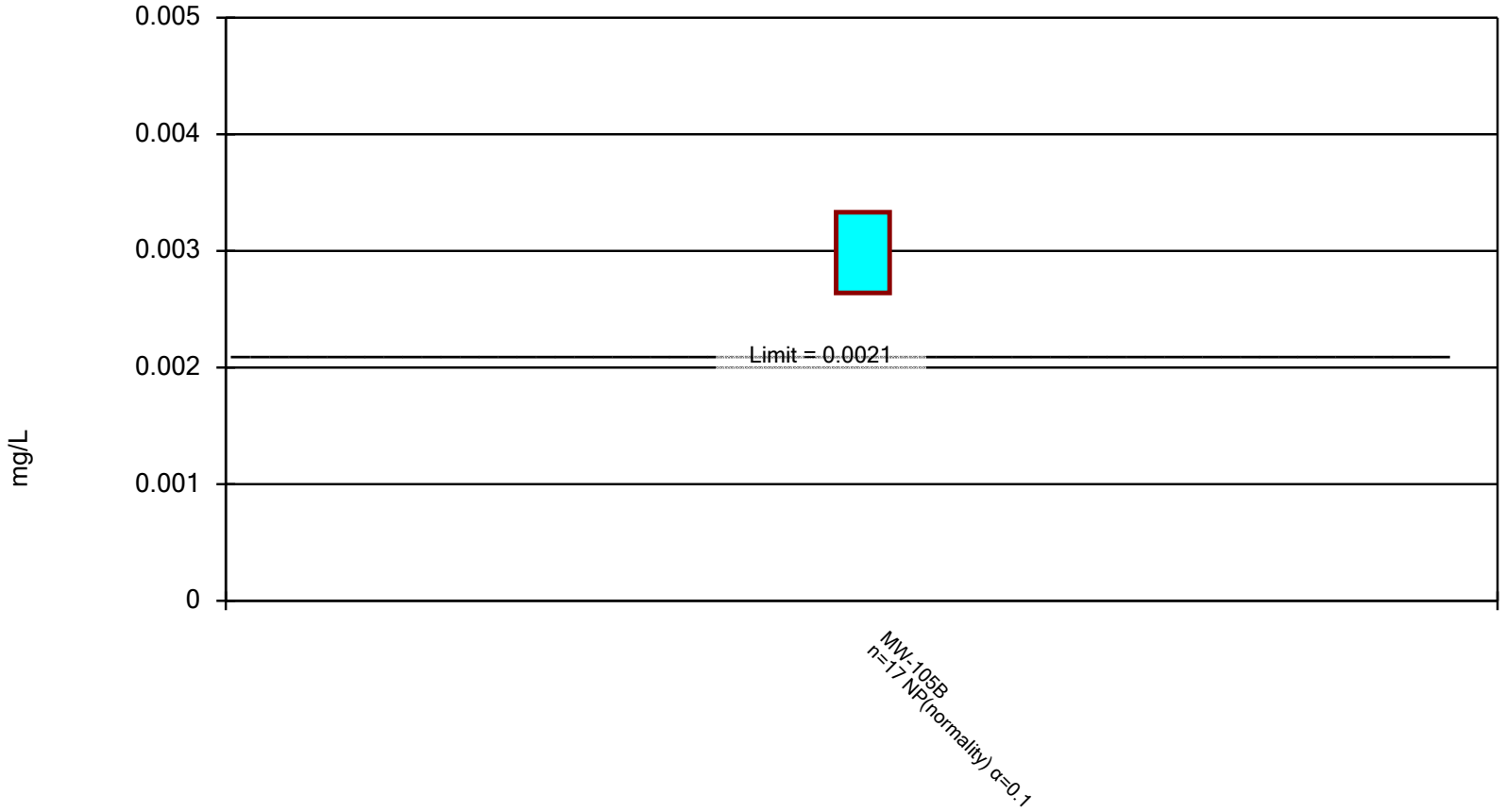


Constituent: Arsenic Analysis Run 10/19/2024 4:41 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.



Constituent: Cobalt Analysis Run 10/19/2024 4:44 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

MW-109B Cobalt Regression Analysis

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.563216916
R Square	0.317213295
Adjusted R Square	0.271694181
Standard Error	0.00233243
Observations	17

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	3.79118E-05	3.791E-05	6.9687933	0.01856404
Residual	15	8.16035E-05	5.44E-06		
Total	16	0.000119515			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.102553038	0.031666905	3.2384927	0.0055117	0.03505663	0.1700494	0.0350566	0.170049447
X Variable 1	-1.8926E-06	7.16935E-07	-2.639847	0.018564	-3.421E-06	-3.64E-07	-3.421E-06	-3.64488E-07

X	Y	Predicted	Upper 95% CL	Lower 95% CL	Upper 95% PL	Lower 95% PL
11/27/2017	0.0269	0.02105	0.02274	0.01935	0.02547	0.01662
3/8/2018	0.0191	0.02086	0.02245	0.01926	0.02524	0.01647
6/15/2018	0.0232	0.02067	0.02217	0.01917	0.02502	0.01631
9/4/2018	0.0214	0.02051	0.02194	0.01909	0.02485	0.01618
11/27/2018	0.0192	0.02036	0.02171	0.01900	0.02466	0.01605
4/19/2019	0.016	0.02008	0.02132	0.01885	0.02436	0.01581
8/27/2019	0.0181	0.01984	0.02099	0.01869	0.02409	0.01559
3/31/2020	0.0184	0.01943	0.02047	0.01839	0.02365	0.01521
8/20/2020	0.0194	0.01916	0.02016	0.01816	0.02337	0.01495
3/25/2021	0.018	0.01875	0.01975	0.01775	0.02296	0.01454
8/23/2021	0.0168	0.01846	0.01951	0.01742	0.02268	0.01424
3/31/2022	0.0163	0.01805	0.01921	0.01688	0.02230	0.01379
8/25/2022	0.0191	0.01777	0.01904	0.01650	0.02205	0.01349
3/23/2023	0.0173	0.01737	0.01882	0.01592	0.02171	0.01303
8/24/2023	0.0169	0.01708	0.01868	0.01548	0.02147	0.01269
3/28/2024	0.0191	0.01667	0.01849	0.01485	0.02115	0.01219
8/15/2024	0.0173	0.01640	0.01838	0.01443	0.02094	0.01186

GWPS = 0.0021 mg//L

Projected Year to Attain Compliance with the GWPS (Assuming Future First Order Attenuation Instead of Linear Decay)

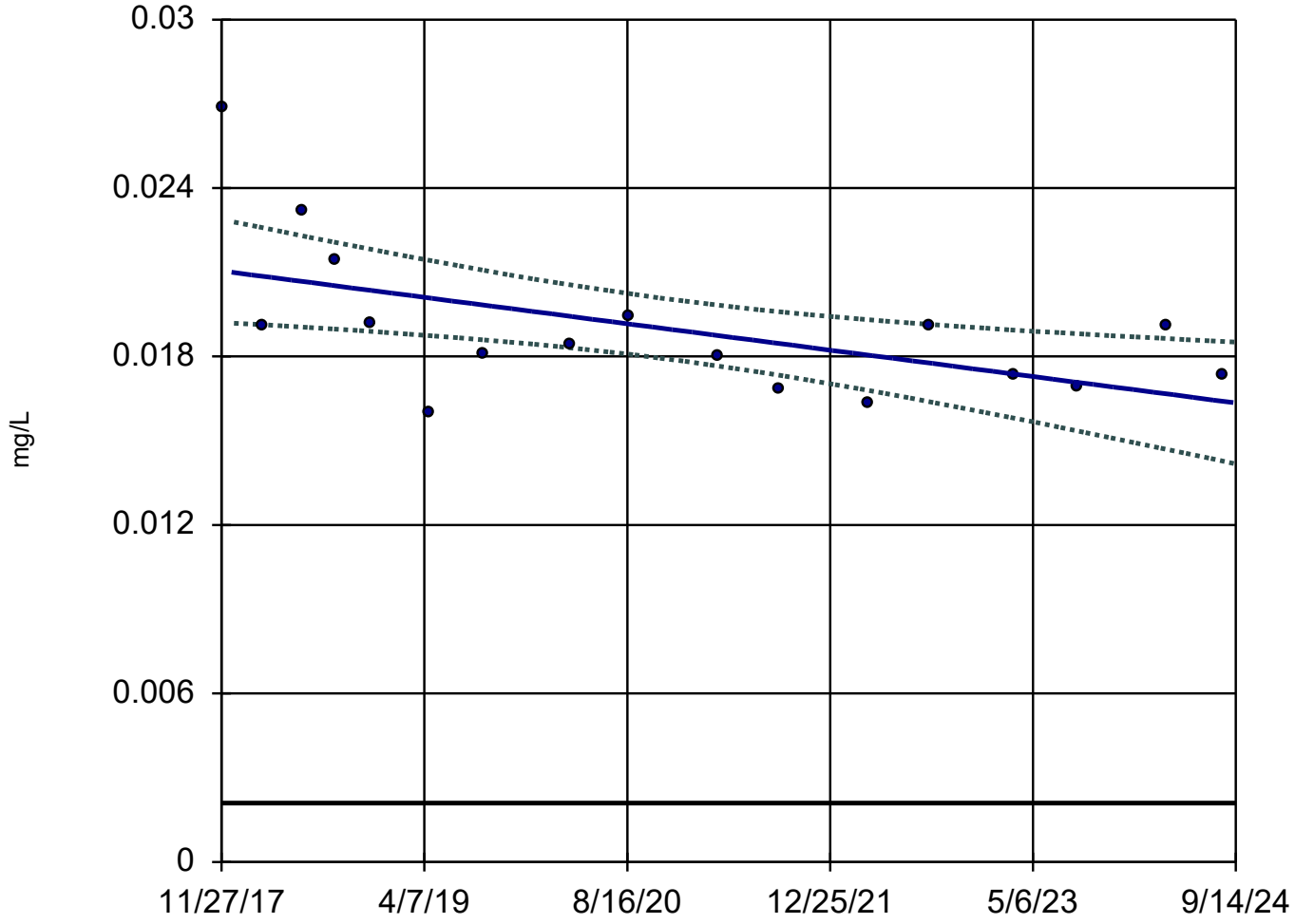
6/18/2086 -6.166 0.0021

Projected Year to Completion

6/17/2089

Linear Regression and 90% Confidence Band

MW-109B



n = 17

Slope = -0.0006913 units/year.

alpha = 0.02
t = -2.638
critical = -2.249

Significant decreasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9372, critical
= 0.851.

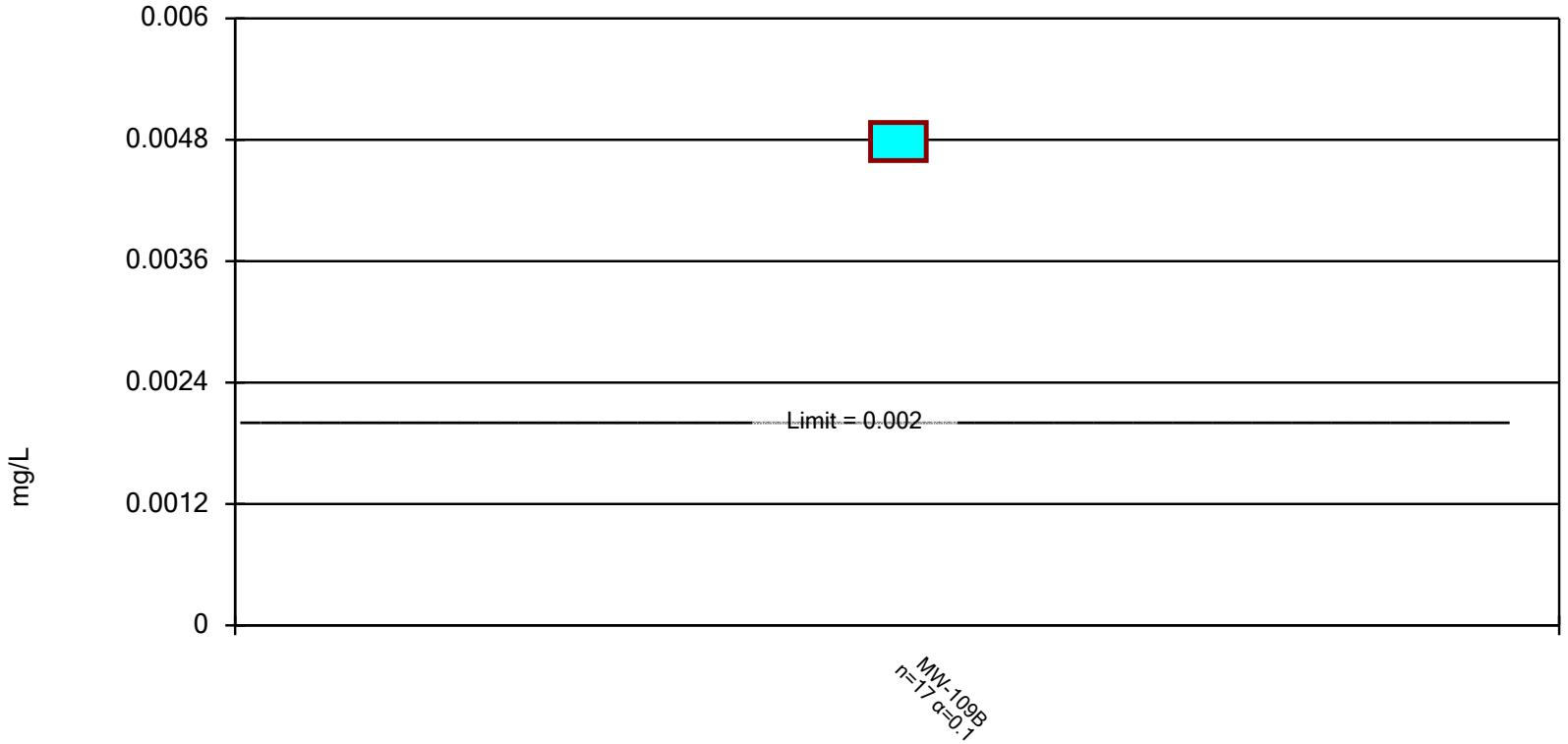
GWPS = 0.0021 mg/L.

Constituent: Cobalt Analysis Run 10/19/2024 9:03 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval, Corrective Action Mode

Compliance limit is exceeded. Normality Test: Shapiro Wilk, alpha based on n.

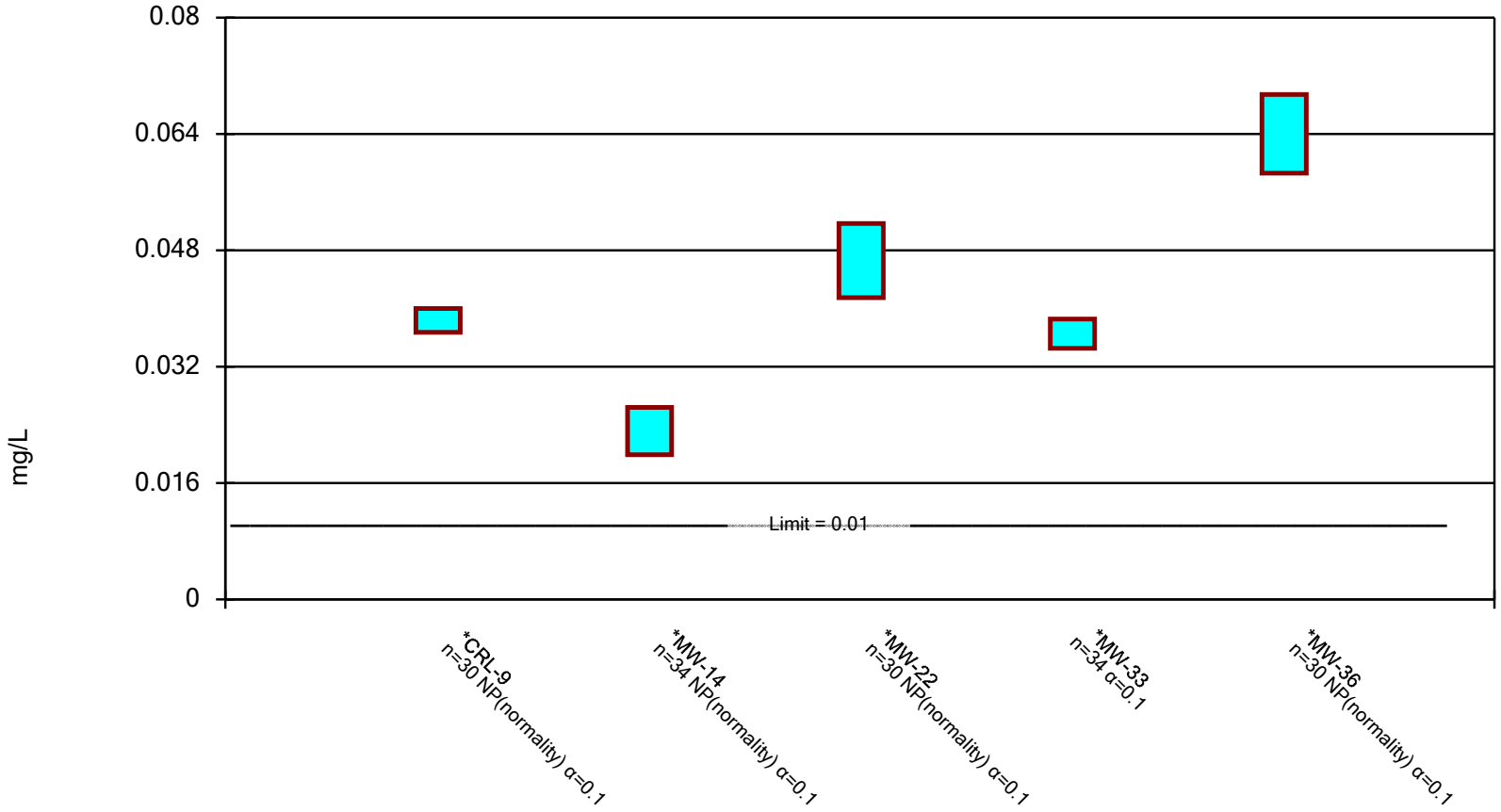


Constituent: Thallium Analysis Run 10/19/2024 4:46 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Normality Test: Shapiro Wilk, alpha based on n.

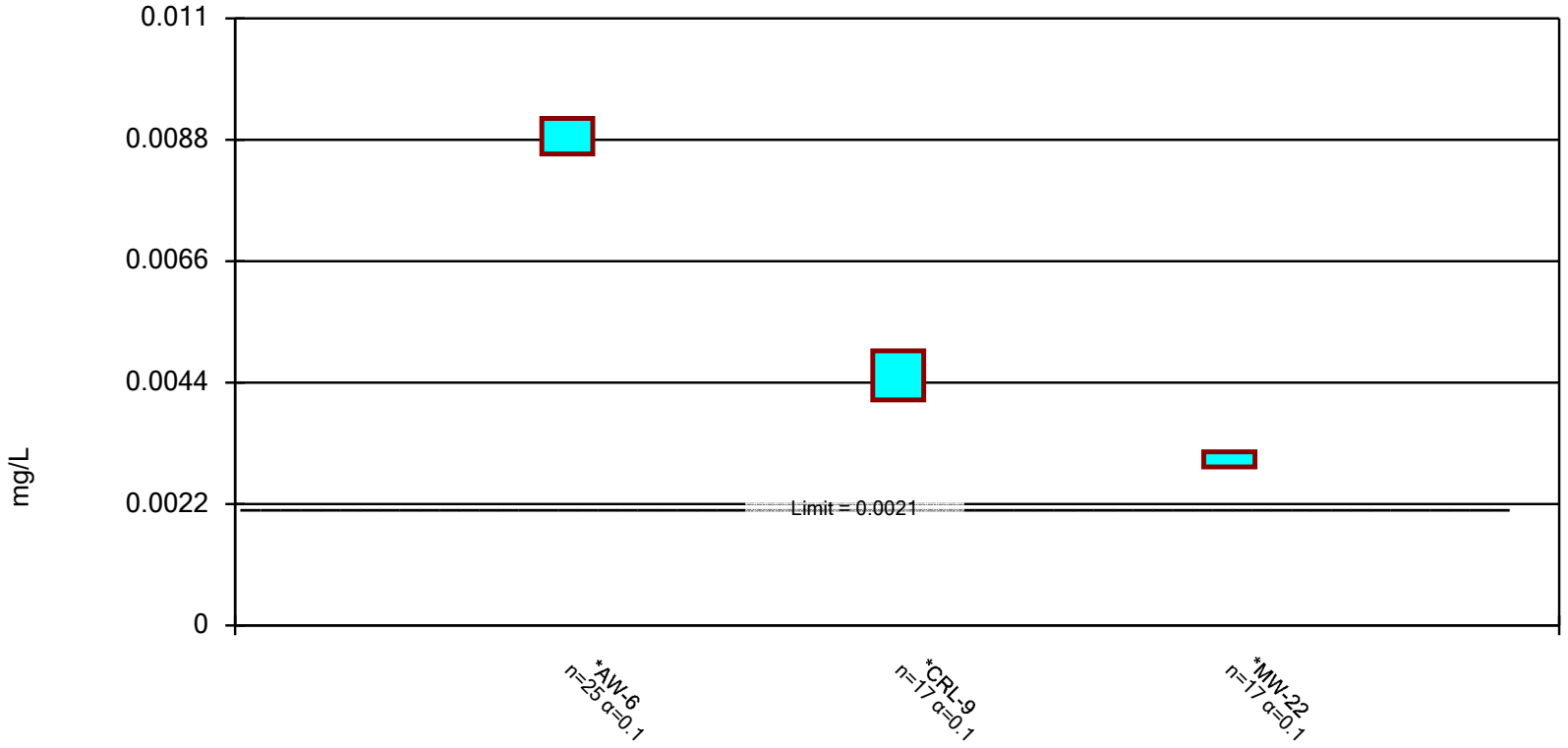


Constituent: Arsenic Analysis Run 10/19/2024 4:49 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Parametric Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/19/2024 4:51 PM

Linn County SWAL Client: Foth Data: Site 1 Deeper Bedrock - Fall 2024 Evaluation

Sample Values and Corresponding 1st-Order Regression Calculations for Date to Completion

	Upper Bedrock Corrective Action and Delineation Monitoring							
Date	AW-2 Arsenic mg/L	MW-13 Arsenic mg/L	MW-13 Arsenic mg/L	MW-16 Arsenic mg/L	MW-16 Arsenic mg/L	MW-32 Arsenic mg/L	MW-32 Arsenic mg/L	MW-106A Cobalt mg/L
			Start 3/2013		Start 3/2013		Start 3/2013	
2008/08	0.0435	0.0223		0.0368		0.051		
2009/03	0.0219	0.016		0.0739		0.0676		
2009/07	0.202	0.0355		0.0722		0.027		
2009/09	0.0159	0.0231		0.041		0.0456		
2010/03	0.0184	0.0139		0.114		0.0231		
2010/09	0.0167	0.0355		0.0869		0.0236		
2011/03	0.0165	0.0421		0.104		0.0971		
2011/09	0.0138	0.0341		0.0704		0.035		
2012/03	0.017	0.0262		0.122		0.0614		
2012/09	0.0216	0.0719		0.0673		0.065		
2013/03	0.0343	0.0455		0.194		0.127		
2013/05								
2013/09	0.0176	0.0475		0.137		0.146		0.0259
2013/11								0.00259
2014/03	0.022	0.0919		0.0966		0.085		0.00314
2014/06								0.00589
2014/09	0.0175	0.055		0.131		0.118		0.0166
2015/03	0.0533	0.0587		0.0839		0.11		0.00263
2015/09	0.0163			0.125		0.0506		
2015/10		0.0438						0.0136
2016/03	0.0148	0.0436		0.261		0.0373		0.00917
2016/08	0.0133	0.0412		0.239		0.0361		0.0224
2017/03	0.0148	0.0561		0.147		0.0328		0.0127
2017/08	0.0131	0.0429		0.157		0.0384		0.0208
2017/11								
2018/03	0.0161	0.0608		0.217		0.189		0.00358
2018/06								
2018/08	0.0141	0.0548		0.142		0.0639		0.00937
2018/09								
2018/11								
2019/03	0.014	0.0917		0.00836		0.0743		0.00222
2019/04								
2019/08	0.0143	0.072		0.0654		0.0253		0.0475
2020/03	0.0171	0.0553		0.0558		0.0702		
2020/04								0.0059
2020/08	0.0149	0.0663		0.187		0.0465		0.0292
2021/03		0.049		0.102		0.0889		
2021/08	0.0172	0.0717		0.0902		0.0272		0.0271
2022/03		0.0973		0.146		0.172		
2022/08	0.0157	0.0398		0.193		0.345		0.0234
2023/03		0.0534		0.0481		0.135		
2023/08	0.0173	0.0549		0.0775		0.207		0.00913
2024/03		0.0527		0.183		0.109		
2024/08	0.0166	0.0351		0.0638		0.247		0.03
Aug. 2024 Sample	0.0166	0.0351	0.0351	0.0638	0.0638	0.247	0.247	0.03
GWPS	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.008
Regression Sample Size	30	34	24	34	24	34	24	21
Regression Slope	-0.00013434	0.000147606	2.6233E-06	4.19983E-05	-0.00013386	0.000189685	0.000158751	0.000302723
Regression y-Intercept	1.737775339	-9.36209968	-3.00568716	-4.11004923	3.606476073	-10.7320185	-9.37377579	-17.5824845
Regression *p*-level	0.024	0.000	0.954	0.525	0.263	0.005	0.189	0.083
Estimated Date to Attain GWPS	4/6/2029	No Attenuation	No Attenuation	No Attenuation	12/11/2067	No Attenuation	No Attenuation	No Attenuation
Projected Year to Completion	Apr-2032	No Attenuation	No Attenuation	No Attenuation	Dec-2070	No Attenuation	No Attenuation	No Attenuation

Sample Values and Corresponding 1st-Order Regression Calculations for Date to Completion

	Deeper Bedrock Corrective Action							
Date	AW-6 Cobalt mg/L	AW-6 Cobalt mg/L	CRL-9 Arsenic mg/L	CRL-9 Arsenic mg/L	CRL-9 Cobalt mg/L	CRL-9 Cobalt mg/L	MW-14 Arsenic mg/L	MW-22 Arsenic mg/L
		Start 3/2012		Start 9/2010		Start 3/2015		
2008/08			0.0369				0.0308	0.0282
2009/03			0.0239				0.0224	0.0258
2009/07			0.029				0.019	0.029
2009/09			0.0392				0.019	0.0334
2010/03			0.019				0.0155	0.025
2010/09	0.00636		0.0428				0.0216	0.0442
2011/03	0.00834		0.0466				0.0237	0.0433
2011/09	0.00615		0.0382				0.0296	0.0316
2012/03	0.00948		0.0372				0.0327	0.0415
2012/09	0.00999		0.0326				0.0201	0.0339
2013/03	0.00882		0.0712				0.139	0.141
2013/05								
2013/09	0.0074		0.034				0.0199	0.0395
2013/11								
2014/03	0.00827		0.0415				0.0153	0.0421
2014/06								
2014/09	0.0079		0.0329		0.00163		0.0234	0.0401
2015/03	0.00881		0.0394		0.0058		0.0164	0.0558
2015/09	0.00912		0.0417		0.00411			0.0473
2015/10							0.0286	
2016/03	0.00985		0.039		0.00574		0.0248	0.0574
2016/08	0.00924		0.04		0.00422		0.0346	0.0471
2017/03	0.00942		0.0307		0.00373		0.0244	0.0501
2017/08	0.00788		0.0319		0.00397		0.0264	0.0414
2017/11								
2018/03	0.00981		0.0412		0.00602		0.0291	0.0669
2018/06								
2018/08	0.00918		0.0397		0.00493		0.0105	
2018/09								0.0464
2018/11								
2019/03	0.0118		0.0543		0.00234		0.115	0.0655
2019/04								
2019/08	0.00792		0.0413		0.00431		0.0633	0.0436
2020/03			0.0367		0.00572		0.0317	0.0585
2020/04	0.00876							
2020/08	0.009		0.0332		0.00411		0.0197	0.0525
2021/03							0.0281	
2021/08	0.00852		0.0413		0.00741		0.0273	0.0517
2022/03							0.0129	
2022/08	0.00919		0.037		0.00401		0.0108	0.0523
2023/03							0.00844	
2023/08	0.01		0.0335		0.00489		0.0142	0.0566
2024/03							0.0253	
2024/08	0.0104		0.0487		0.00408		0.0151	0.0551
Aug. 2024 Sample	0.0104	0.0104	0.0487	0.0487	0.00408	0.00408	0.0151	0.0551
GWPS	0.0021	0.0021	0.01	0.01	0.0021	0.0021	0.01	0.01
Regression Sample Size	25	22	30	25	17	16	34	30
Regression Slope	5.00725E-05	2.30621E-05	3.64595E-05	-1.0935E-05	7.95147E-05	-6.6464E-06	-5.2584E-05	0.000111131
Regression y-Intercept	-6.87215445	-5.69282772	-4.82358919	-2.76325597	-8.90343801	-5.09982995	-1.50022361	-7.78706517
Regression *p* -level	0.010	0.200	0.167	0.681	0.352	0.924	0.359	0.002
Estimated Date to Attain GWPS	No Attenuation	No Attenuation	No Attenuation	2/25/2361	No Attenuation	2/13/2339	8/29/2061	No Attenuation
Projected Year to Completion	No Attenuation	No Attenuation	No Attenuation	Feb-2364	No Attenuation	Feb-2342	Aug-2064	No Attenuation

Sample Values and Corresponding 1st-Order Regression Calculations for Date to Completion

	Deeper Bedrock Corrective Action and Delineation Monitoring							
Date	MW-22 Arsenic mg/L	MW-22 Cobalt mg/L	MW-33 Arsenic mg/L	MW-33 Arsenic mg/L	MW-36 Arsenic mg/L	MW-36 Arsenic mg/L	MW-105B Cobalt mg/L	MW-105B Cobalt mg/L
	Start 3/2015			Start 3/2015		Start 3/2011		Start 3/2017
2008/08			0.0249		0.0372			
2009/03			0.0233		0.0441			
2009/07			0.0248		0.0413			
2009/09			0.023		0.0358			
2010/03			0.0262		0.0443			
2010/09			0.0272		0.0382			
2011/03			0.0341		0.0696			
2011/09			0.0283		0.0592			
2012/03			0.0292		0.0633			
2012/09			0.0261		0.071			
2013/03			0.027		0.134			
2013/05								
2013/09			0.0324		0.0701			
2013/11								
2014/03			0.0297		0.075			
2014/06								
2014/09		0.00338	0.0271		0.0585		0.00224	
2015/03		0.00272	0.0442		0.0683		0.00233	
2015/09		0.00246	0.0422		0.0659			
2015/10							0.00249	
2016/03		0.00345	0.0425		0.0586		0.00227	
2016/08		0.00246	0.0379		0.0531		0.00224	
2017/03		0.00327	0.038		0.0519		0.00276	
2017/08		0.0028	0.0428		0.0656		0.00264	
2017/11								
2018/03		0.00271	0.0469		0.0694		0.00294	
2018/06								
2018/08			0.0413		0.0703		0.00297	
2018/09		0.00246						
2018/11								
2019/03		0.0034	0.0461		0.0534		0.00333	
2019/04								
2019/08		0.00306	0.0454		0.0619		0.00499	
2020/03		0.00322	0.0474		0.0714		0.00372	
2020/04								
2020/08		0.00383	0.0477		0.0719		0.00732	
2021/03			0.0514					
2021/08		0.00328	0.0351		0.0633		0.00383	
2022/03			0.0326					
2022/08		0.00272	0.037		0.0745		0.00277	
2023/03			0.0399					
2023/08		0.00338	0.0496		0.072		0.00315	
2024/03			0.0409					
2024/08		0.00254	0.0503		0.0692		0.00945	
Aug. 2024 Sample	0.0551	0.00254	0.0503	0.0503	0.0692	0.0692	0.00945	0.00945
GWPS	0.01	0.0021	0.01	0.01	0.01	0.01	0.0021	0.0021
Regression Sample Size	16	17	34	20	30	24	17	12
Regression Slope	2.24726E-05	1.33157E-05	0.00011399	5.69982E-06	7.7448E-05	-1.034E-05	0.000269249	0.000248507
Regression y-Intercept	-3.92400646	-6.39427911	-8.18738228	-3.40427532	-6.07440758	-2.25850419	-17.4139232	-16.4898723
Regression *p* -level	0.520	0.699	0.000	0.836	0.007	0.711	0.002	0.077
Estimated Date to Attain GWPS	No Attenuation	No Attenuation	No Attenuation	No Attenuation	No Attenuation	5/8/2521	No Attenuation	No Attenuation
Projected Year to Completion	No Attenuation	No Attenuation	No Attenuation	No Attenuation	No Attenuation	May-2524	No Attenuation	No Attenuation

Sample Values and Corresponding 1st-Order Regression Calculations for Date to Completion

Date	Deeper Bedrock Delineation Monitoring		
	MW-109B Arsenic mg/L	MW-109B Arsenic mg/L	MW-109B Thallium mg/L
		Start 11/2018	
2008/08			
2009/03			
2009/07			
2009/09			
2010/03			
2010/09			
2011/03			
2011/09			
2012/03			
2012/09			
2013/03			
2013/05			
2013/09			
2013/11			
2014/03			
2014/06			
2014/09			
2015/03			
2015/09			
2015/10			
2016/03			
2016/08			
2017/03			
2017/08			
2017/11	0.00987		0.00463
2018/03	0.0138		0.0052
2018/06	0.0152		0.00513
2018/08			
2018/09	0.0166		0.00531
2018/11	0.0201		0.00453
2019/03			
2019/04	0.0253		0.00464
2019/08	0.0197		0.00482
2020/03	0.0276		0.00557
2020/04			
2020/08	0.0243		0.00446
2021/03	0.0224		0.00525
2021/08	0.0189		0.00475
2022/03	0.0168		0.00456
2022/08	0.0219		0.00557
2023/03	0.0202		0.00515
2023/08	0.0192		0.00342
2024/03	0.0196		0.00452
2024/08	0.0214		0.00378
Aug. 2024 Sample	0.0214	0.0214	0.00378
GWPS	0.01	0.01	0.002
Regression Sample Size	17	13	17
Regression Slope	0.000124321	-7.5458E-05	-7.1098E-05
Regression y-Intercept	-9.44721191	-0.50301737	-2.2120349
Regression *p*-level	0.102	0.187	0.072
Estimated Date to Attain GWPS	No Attenuation	11/1/2048	2/16/2054
Projected Year to Completion	No Attenuation	Nov-2051	Feb-2057

Attachment 6

Effective Power and Site-Wide False Positive Rate Discussion

Effective Power and Site-Wide False Positive Rate

Statistical power refers to the ability of a test to identify real increases in concentration levels given they exist. The Unified Guidance defines the effective power as the "probability of detecting contamination in the monitoring network when one and only one well-constituent pair is contaminated." It further states that any statistical test procedure with effective power at least as high as the appropriate USEPA Reference Power Curve (ERPC) should be considered to have reasonable power.

The Unified Guidance gives the following criteria for comparing the effective power to the ERPC:

If the effective power first exceeds the ERPC at a mean concentration increase no greater than 3 background standard deviations, the power is labeled 'good;' if the effective power first exceeds the ERPC at a mean increase between 3 and 4 standard deviations, the power is considered 'acceptable;' and if the first exceedance of the ERPC does not occur until an increase greater than 4 standard deviations, the power is considered 'low.'

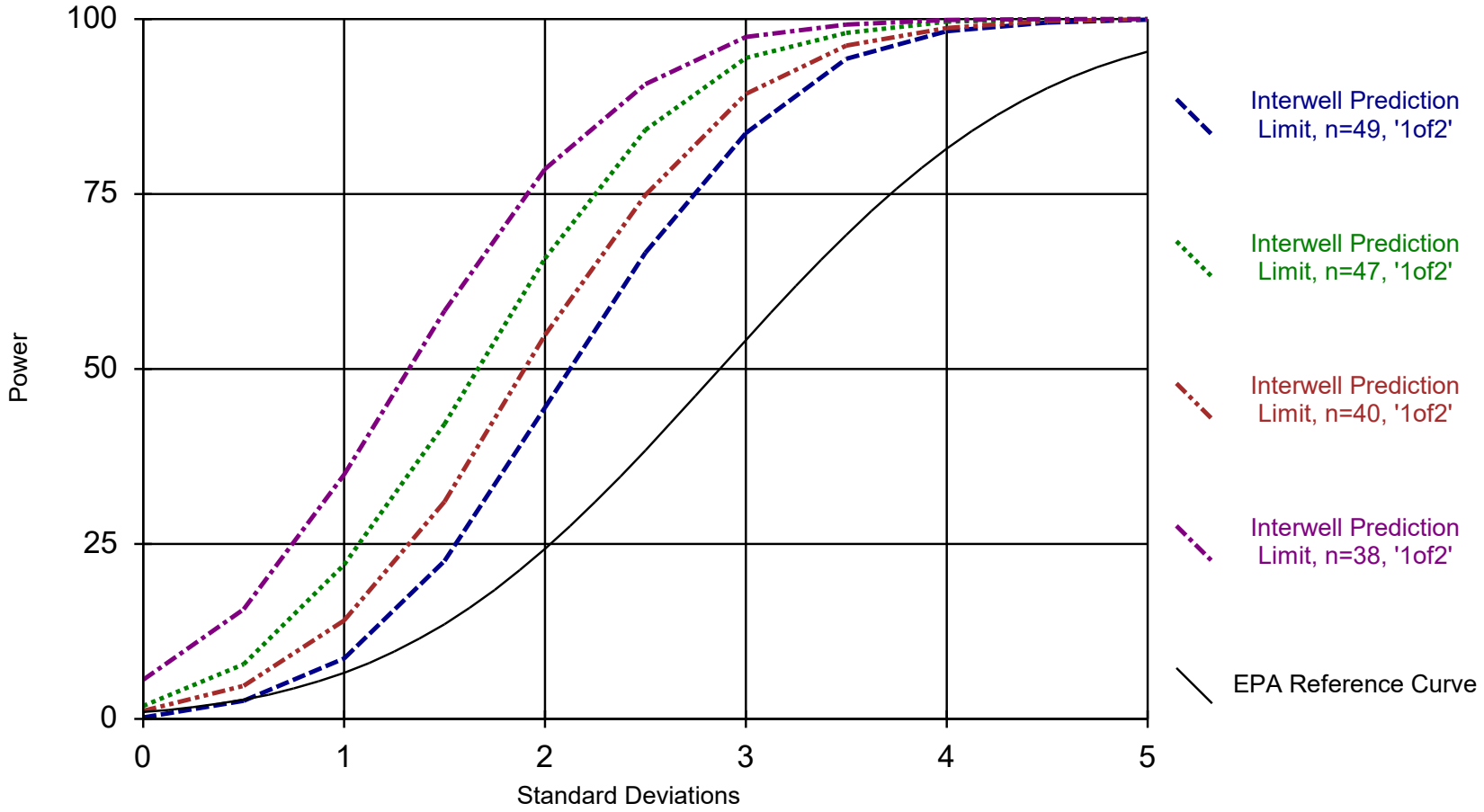
Effective power curves were developed with Sanitas for the 1-of-2 prediction limit plan, with power curves illustrated below. Based on the power curves, the parametric and non-parametric prediction limits have good power.

The Unified Guidance "strongly encourages use of a comprehensive design strategy to account for both the cumulative SWFPR and effective power to identify real exceedances." The Unified Guidance recommends and uses an annual SWFPR target of 10%. The current annual SWFPR based on the 1-of-2 prediction limit plan may be calculated using the basic subdivision principle discussed in Unified Guidance Sections 6.2.2, 19.2.1 and 19.4.

Currently, comparisons were made at 9 wells semiannually and 43 wells annually. Based on the Sanitas prediction limit output summarized in Attachment 2 of the Spring and Fall 2024 statistical evaluations, a total of 234 well/constituent pairs resulted for the upper bedrock, and 164 well/constituent pairs for the deeper bedrock, totaling 398 well/ constituent pairs annually for the site.

The cumulative annual SWFPR can be approximated directly from the α-levels reported in the Sanitas output as SWFPR $= 1 - \prod_{i=1}^{398}(1 - \alpha_i) = 0.236 \approx 24\%$. The current annual SWFPR is higher than the Unified Guidance target 10% false positive rate due to moving from a 1-of-3 to the 1-of-2 prediction plan starting with the Spring 2021 statistical evaluation and the relatively large number of downgradient comparisons with nonparametric prediction limits. Given the number of non-parametric prediction limit evaluations, a background sample size of approximately 80-90 is needed to reduce the SWFPR once again to the 10% target level.

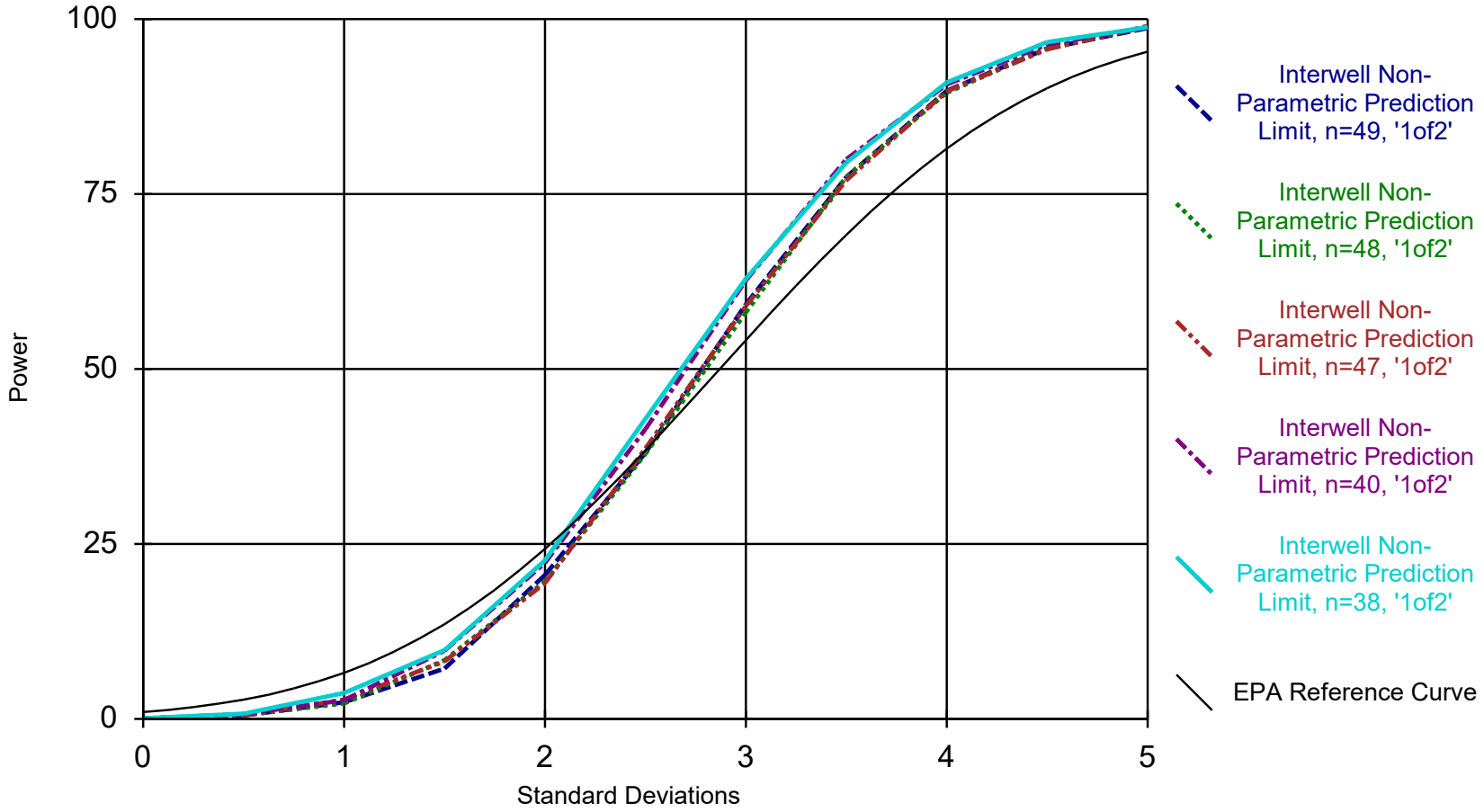
Parametric Power Curves



Analysis Run 10/21/2024 12:08 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

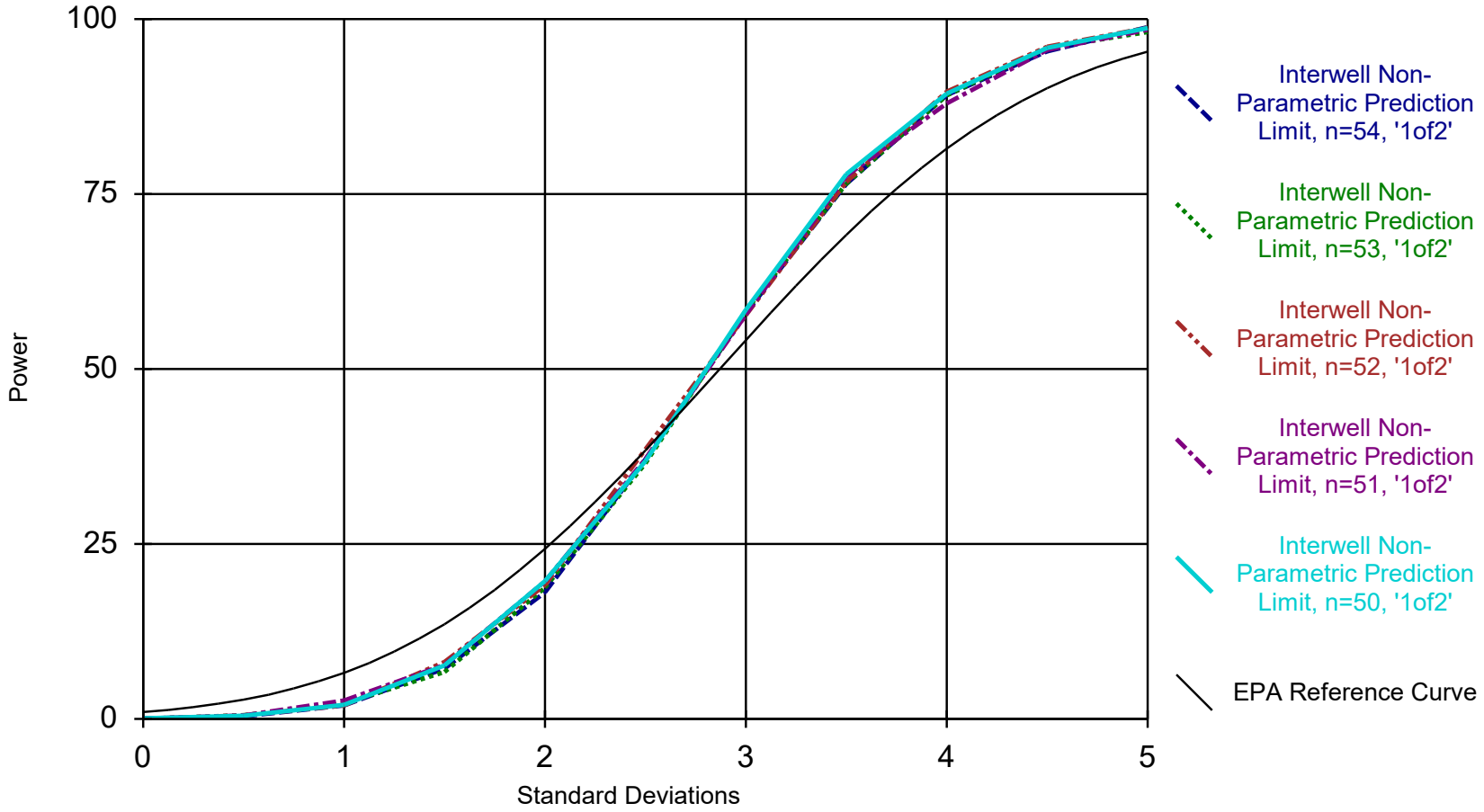
Non-Parametric Power Curves



Analysis Run 10/21/2024 12:15 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Non-Parametric Power Curves



Analysis Run 10/21/2024 12:16 PM

Linn County SWAL Client: Foth Data: Site 1 Upper Bedrock - Fall 2024 Evaluation

Attachment 7

References

References

Foth Infrastructure and Environment (Foth), 2012. *2011 Annual Water Quality Report, Cedar Rapids/Linn County Solid Waste Agency Site No.1, IDNR Permit No. 57-SDP-03-75C, Project ID: 11C050.00*. December 29. [Doc. #68145].

Iowa Department of Natural Resources (Matthew R. Phoenix, P.E.), Letter to Karmin McShane, 12 May 2016. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill (Site #1 – Cedar Rapids), 2015 Annual Water Quality Report and 2015 Statistical Notifications, Permit No. 57-SDP-03-75C." [Doc. #86317].

Iowa Department of Natural Resources (Matthew Graesch), Letter to Karmin McShane, 20 Nov 2017. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill #1, Permit No. 57-SDP-03-75C, Response to Fall 2017 Statistical Notifications (doc #90813)." [Doc. #90850].

Iowa Department of Natural Resources (Matthew Graesch), Letter to Karmin McShane, 16 April 2019. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill #1, Permit No. 57-SDP-03-75C, 2019 Annual Water Quality Report (Doc. No. 94330)." [Doc. #94910].

United States Environmental Protection Agency (USEPA), 1997. *The Lognormal Distribution in Environmental Applications*. EPA/600/R97/006. Office of Solid Waste and Emergency Response, Washington, D.C.

USEPA, 2006. *On the Computation of a 95% Upper Confidence Limit of the Unknown Population Mean Based Upon Data Sets with Below Detection Limit Observations*. EPA/600/R-06/022. Office of Research and Development, Washington, D.C.

USEPA, 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*. EPA 530-R-09-007. Office of Resource Conservation and Recovery, Program Implementation and Information Division, Washington, D.C.

Appendix C
2024 Plume Stability Analysis Update

Memorandum

411 6th Avenue SE, Suite 400
Cedar Rapids, IA 52401
(319) 365-9565
foth.com

January 15, 2025

TO: Iowa Department of Natural Resources (IDNR)

CC: Karmin McShane, Cedar Rapids Linn County Solid Waste Agency (Agency)
Garrett Prestegard, Cedar Rapids Linn County Solid Waste Agency (Agency)
IDNR Field Office #1

FR: Gina Wilming, CGP; Stephen Lehrke, Ph.D.; Foth Infrastructure & Environment, LLC (Foth)

RE: Site 1 – 2024 Plume Stability Analysis Update

1. Overview

In accordance with the approved remedy implementation schedule, most recently outlined in the *2023 Annual Water Quality Report* (Foth Infrastructure & Environment, LLC [Foth], 2024), a five-year review of plume stability and timeframes for remedy completion are presented in this memorandum (memo) to quantitatively assess the progress of the monitored natural attenuation (MNA) remedy for the groundwater plumes at Site 1 and to reevaluate plume characteristics over time. This memo will be submitted as an appendix to the 2024 Annual Water Quality Report (AWQR).

Plume stability analysis was initially conducted for Site 1 with the *2014 AWQR* (Foth, 2015a), and the first five-year MNA review was submitted with the *2019 AWQR* (Foth, 2020). This memo updates the 2014 and 2019 plume stability results incorporating five years of data collected from 2020 through 2024.

Plume behavior over time characterizes lateral or vertical movement and is an important step in understanding plume sources, trend patterns, assessing the effectiveness of remediation, and projecting the likelihood of meeting cleanup objectives during a desired time frame. A key component to plume stability analysis is that it is integrated across the entire plume, as opposed to multiple evaluations being performed at individual monitoring locations. Therefore, a comprehensive and quantitative assessment of the plume is made simultaneously utilizing all available monitoring point data.

The approach to evaluating plume stability encompasses calculating various spatial metrics such as planar area, average concentration, maximum concentration and two-dimensional center of mass. The calculation of these spatial metrics provides clarity in assessing overall plume trends, particularly when trend results do not agree for all individual well locations. In addition, this analysis offers a quantitative rather than qualitative approach to evaluating plume trends, allowing for decision criteria to be established and hypotheses to be tested through statistical methods.

The plume stability approach utilized for this evaluation combines the development of interpolated constituents of concern (COCs) along with temporal statistical trend tests. In this analysis, two-dimensional interpolations for the COCs are developed for each of the annual monitoring events from August 2008 through August 2024. Two-dimensional interpolations were performed separately for the shallow and deeper bedrock aquifers since the groundwater protection standard (GWPS) differs between the two aquifers, specifically for cobalt.

From the individual time/constituent interpolations, two-dimensional plume metrics are calculated which characterize contaminant plume conditions. The results of each metric are then statistically tested for trends over time. A detailed discussion of the modeling and statistical methodology is provided in Attachment 1.

2. Results of Plume Stability Analysis

2.1 Interpolation of Data and Assumptions

The monitoring well network of approximately 22 shallow and 13 deeper bedrock monitoring wells have been sampled since August of 2008, providing a consistent data set as a basis for evaluating general groundwater plume changes over time. In addition, 6 shallow locations (MW-101A, MW-102A, MW-103A, MW-105A, MW-106A and MW-107A) and 6 deeper bedrock locations (MW-101B, MW-102B, MW-103C, MW-104B, MW-105B, and MW-107B) were installed during 2013. Two of these locations (MW-101A/B) were installed to expand the background metals data set, while the remaining locations were installed to delineate the horizontal and vertical extent of the groundwater plumes to background levels in accordance with Iowa Administrative Code (IAC) 113.10(6)g(1). Finally, two shallow locations (MW-108A and MW-109A) and two deeper bedrock locations (MW-108B and MW-109B) were installed in 2017 for further delineation purposes.

In Permit Amendment #16 (IDNR, 2020), IDNR approved an optimized groundwater monitoring program. Starting in August 2020, six monitoring well locations were removed from the groundwater monitoring program (i.e., MW-27, MW-29, MW-102A, MW-103A, MW-103C, and MW-108A) and annual monitoring was initiated for most of the remaining wells. Annual monitoring events are conducted in the fall of each year. Due to the optimized sampling frequency, this five-year review is based on interpolations and trends from annual monitoring events. The 2014 and 2019 plume stability analyses (Foth, 2015a and 2020) utilized interpolations and trends from semiannual monitoring events. In addition, MW-27, MW-29, MW-102A, MW-103A, MW-103C, and MW-108A were removed from the model during this five-year review since these locations were removed from the groundwater monitoring network in 2020.

Plume stability was evaluated based on four COCs: arsenic, cobalt, thallium, and vinyl chloride. The COCs selected were based on the constituents that remained at statistically significant levels (SSLs) over the groundwater protection standard (GWPS) in the 2020 to 2024 statistical evaluations (i.e., corrective action constituents). No new corrective action constituents were added from 2020 to 2024. While nickel was included in the 2014 and 2019 plume stability evaluations (Foth, 2015a and 2020), this COC was not included in the current evaluation since nickel exited corrective action before 2020 and no new SSLs over the GWPS were identified for nickel between 2020 and 2024. Table 1 lists the corrective action constituents at Site 1 from 2020-2024. Analytes in italics achieved compliance with the GWPS for three consecutive years during the statistical evaluation indicated in parentheses and exited corrective action in accordance with IAC 113.10(9)e(2) during the next sampling event.

Table 1
2020-2024 Corrective Action Constituents

Monitoring Location	Corrective Action Constituents [1,2]
Upper Bedrock Monitoring Locations (Shallow Aquifer)	
AW-1	Arsenic
AW-2	Arsenic, Thallium
AW-5	*Cobalt (Spring 2020)*
MW-12	Arsenic
MW-13	Arsenic
MW-16	Arsenic
MW-17	Arsenic, *Cobalt (Spring 2020)*
MW-20	*Arsenic (Fall 2022)*, Thallium [3]
MW-24	Arsenic
MW-30	Arsenic
MW-32	Arsenic
MW-34	Arsenic, Vinyl Chloride
MW-35	*Cobalt (Fall 2024)*
MW-105A	Cobalt [3]
MW-106A	Arsenic, Cobalt
Deeper Bedrock Monitoring Locations	
AW-6	Cobalt
CRL-9	Arsenic, Cobalt
MW-14	Arsenic
MW-22	Arsenic, Cobalt
MW-33	Arsenic
MW-36	Arsenic
MW-105B	Cobalt
MW-109B	Arsenic; Cobalt; Thallium

[1] Table 1 lists the analyte/well pairs identified as corrective action constituents during the 2020-2024 statistical evaluations. Corrective action constituents are analyte/well pairs with SSLs over the GWPS identified during previous statistical evaluations and, unless otherwise noted, have not achieved compliance with the GWPS for three consecutive years in accordance with 567 IAC 113.10(9)e(2).

[2] Analytes in italics achieved compliance with the GWPS for three consecutive years during the statistical evaluation indicated in parentheses and exited corrective action in accordance with IAC 113.10(9)e(2) during the next sampling event.

[3] Compliance was newly achieved for thallium in MW-20 and cobalt in MW-105A in Fall 2024; therefore, thallium in MW-20 and cobalt in MW-105A will attain compliance with the GWPS for three consecutive years in Fall 2026 and return to assessment constituents in 2027 as long as concentrations remain statistically below the GWPS during interim statistical evaluations.

Two-dimensional interpolations for each COC were developed for the data collected from the 17 annual monitoring events from August 2008 through August 2024. The interpolation models for arsenic, cobalt, thallium, and vinyl chloride depicted in Figures 1A through 4D in Attachment 2 were developed utilizing all the available annual data collected at the shallow and deeper bedrock well network described above. Since a consistent data set is required to quantitatively evaluate the plume as a whole, data from quarterly or spring semiannual sampling events between August 2008 and August 2024 were not utilized since the results from quarterly events and spring semiannual events after optimization was initiated were limited to a few wells and were not inclusive of all the wells within the plume bounds.

Where missing data occurred due to inaccessible wells or time periods prior to well installation, the concentration utilized for modeling purposes was an imputed result derived from the existing data. The imputed results were calculated based on the following processes:

- Monitoring at MW-101A through MW-107B began in September of 2013; therefore, no monitoring data exists prior to that date for these wells. EVS interpolation was utilized to estimate results for the Fall 2008 through Fall 2012 annual events at these locations.

- Monitoring at MW-108A through MW-109B began in November of 2017; therefore, no monitoring data exists prior to that date for these wells. EVS interpolation was utilized to estimate results for the Fall 2008 through Fall 2016 annual events at these locations.

The following additional data considerations were incorporated into the evaluation:

- MW-27, MW-29, MW-102A, MW-103A, MW-103C, and MW-108A were removed from the plume stability analysis. As discussed above, IDNR approved an optimized groundwater monitoring program in 2020 which included removal of these locations (IDNR, 2020).

- AW-7 was removed from the plume stability analysis since this location was inadvertently abandoned during pavement removal activities for the Compost Facility Maintenance Shop project in 2022. Spatial interpolations developed for arsenic and cobalt in the vicinity of AW-7 indicated that the removal of AW-7 did not significantly change the arsenic and cobalt plumes. Therefore, the removal of AW-7 from the shallow monitoring network was requested (Foth, 2023). IDNR approved the removal of AW-7 in Permit Amendment #19 (IDNR, 2022).

- MW-104B in the deeper aquifer is utilized only for the assessment of arsenic (i.e., excluded in the analysis of cobalt, thallium, and vinyl chloride). Waste was encountered while drilling MW-104A/B which was not associated with Site 1 and IDNR agreed that the data from MW-104A/B may not be representative of impacts associated with landfill activities. Given the absence of arsenic concentrations above background and the GWPS at MW-104B, Foth noted during the meeting in March of 2015 that the arsenic data at MW-104B may be useful in delineating concentrations to background in accordance with IAC 113.10(6)g(1)1. In accordance with this discussion and as submitted in Response to Comment 1.a.2 (Foth, 2015), monitoring for arsenic in MW-104B remained. Monitoring in MW-104A ceased in 2017. IDNR approved retaining MW-104B as an arsenic delineation monitoring well in the letter dated May 12, 2016 (IDNR, 2016).

- MW-108B in the deeper aquifer is not included for the assessment of cobalt. The *2018 AWQR* (Foth, 2019) identified spatial variation as the source of the cobalt concentrations at MW-108B. Removal of the cobalt data in MW-108B was recommended based on the predominant natural north-northeast flow direction, the particle tracking model's (HRG, 2001) limited upgradient migration, the distance upgradient that MW-108B is located from Site 1, and the lack of volatile organic compound (VOC) detections. IDNR approved the removal of cobalt from the list of analytes at MW-108B in the letter dated April 16, 2019 (IDNR, 2019).

- Background cobalt concentrations in the shallow aquifer data set exceed the IAC 567 Chapter 137 Statewide Standard. Therefore, pursuant to IAC 113.10(6)h, the GWPS for cobalt was taken as background (0.008 mg/L). Additional details regarding the shallow

aquifer cobalt GWPS as background are provided in the semiannual statistical memos included in Appendix B of the AWQRs. Note that cobalt concentrations in deeper bedrock have not exceeded the IAC 567 Chapter 137 Statewide Standard. Therefore, the deeper bedrock cobalt GWPS remained the IAC 567 Chapter 137 Statewide Standard (0.0021 mg/L).

2.2 Interpolation Model Results

The arsenic, cobalt, thallium, and vinyl chloride plumes are visually illustrated in Figures 1A through 4D in Attachment 2.

2.2.1 Arsenic

With arsenic, the interpolations illustrate a generally broad area over Site 1 in the shallow aquifer exceeding the GWPS (Figures 1A and 1B), and a smaller area in the deeper bedrock aquifer exceeding the GWPS with three discrete locations (Figures 1C and 1D).

Historically, the highest concentrations in the shallow aquifer have been near the southwest area of Site 1 at AW-1, AW-2, and MW-24, and at MW-12 and MW-16 located in a broader region of the central part of Site 1 extending north to south. The extent of the shallow aquifer arsenic plume (i.e., GWPS exceedances) began to somewhat decrease laterally after 2014 through 2020. Over the past five years (i.e., 2020-2024), the shallow aquifer arsenic plume rebounded in 2021 and then decreased from 2022-2024.

The highest concentrations of arsenic in the deeper bedrock aquifer are in three discrete areas of Site 1: MW-14 in the north-central area, MW-22 in the northwestern area, and MW-36 in the southeastern area. The lateral extent of the arsenic plume (i.e., GWPS exceedances) in the deeper aquifer was relatively stable and consistent through 2019. Over the past five years (i.e., 2020-2024), the deeper bedrock arsenic plume appears relatively stable except for MW-14. The lateral extent of arsenic concentrations exceeding the GWPS at MW-14 appears smaller than the 2008-2019 extent at MW-14.

2.2.2 Cobalt

As illustrated in Figure 2A, cobalt concentrations in the shallow aquifer have historically been highest in an area on the eastern side of Site 1 extending north to south through MW-106A, MW-13, and MW-105A. The area exceeding the GWPS in the shallow aquifer was greatest between 2010 and 2014, but then decreased and remained smaller through 2019. As illustrated in Figure 2B, further decreases in the shallow aquifer cobalt plume are evident near MW-105A over the past five years (i.e., 2020-2024).

Similarly, the area in the deeper bedrock aquifer with the highest cobalt concentrations historically exceeding the GWPS also is on the eastern side of Site 1 extending north to south through AW-6, MW-14, MW-105B, and MW-109B (Figure 2C). There is also a cobalt plume in the northwestern area of Site 1 around MW-107B, MW-22, and CRL-9 which began to show more consistent GWPS exceedances after 2014. As illustrated in Figure 2D, the deeper bedrock cobalt plume appears relatively stable over the past five years (i.e., 2020-2024).

2.2.3 Thallium

As illustrated in Figure 3A, thallium in the shallow aquifer initially had isolated GWPS exceedances at MW-12, MW-20, AW-2, MW-24, and MW-30. The lateral extent of the GWPS

exceedance area near the center of Site 1 appeared to increase between 2012 and 2014 and then substantially decreased after 2014. By 2019, the shallow aquifer thallium plume was limited to GWPS exceedances at AW-2 and MW-21. As illustrated in Figure 3B, thallium concentrations near the northwestern area (i.e., MW-20, MW-21, and MW-23) increased in 2020 and 2021 then decreased with concentrations in this area below the GWPS by 2024. At AW-2, thallium concentrations over the GWPS appear to have remained stable over the past five years. Isolated exceedances were identified at AW-5 (in 2023), MW-12 (2024), and MW-30 (2021).

GWPS exceedances for thallium in the deeper bedrock aquifer (Figure 3C) were limited to monitoring wells MW-107B (northwestern area of Site 1) and MW-109B (southeastern area of Site 1). As discussed in Section 2.1, monitoring began in September 2013 at MW-107B and November 2017 at MW-109B. Note that in Figure 3C, concentrations observed in these wells are extrapolated back to 2008, but the well location labels appear when monitoring begins. As illustrated in Figure 3D, thallium in MW-107B remained relatively stable from 2020-2023 with concentrations dropping below the GWPS in 2024. The southeastern thallium plume near MW-109B increased only in 2021 due to the GWPS exceedance at MW-105B. Except for 2021, the thallium plume near MW-109B appears relatively stable over the past five years.

2.2.4 Vinyl Chloride

Historically, vinyl chloride in the shallow aquifer (Figure 4A) has had a GWPS exceedance area extending from north to south through the central region of Site 1 near MW-12, MW-13, MW-16, MW-32, and MW-34. The size of the GWPS exceedance area started decreasing in 2012 with no exceedances observed for 2019. As illustrated in Figure 4B, shallow aquifer vinyl chloride concentrations over the GWPS rebounded at MW-34 (maximum in 2021) and then decreased back below the GWPS by 2024.

In the deeper bedrock aquifer (Figure 4C), vinyl chloride has had limited and isolated GWPS exceedances at MW-14 (north-central area of Site 1) and MW-36 (southeastern area of Site 1). No GWPS exceedances in the deeper aquifer have been observed since 2013. Note that none of the historical GWPS exceedances for vinyl chloride in deeper bedrock were identified as SSLs over the GWPS using confidence interval comparisons during semiannual statistical evaluations. As illustrated in Figure 4D, vinyl chloride concentrations in the deeper bedrock aquifer remained non-detect over the past five years (i.e., 2020-2024).

2.3 Trends in Plume Metrics

Based on the plume interpolations, two-dimensional plume metrics were calculated for the upper and deeper bedrock aquifers for each COC. These metrics consisted of:

- Planar area exceeding the GWPS,
- Average concentration (surface weighted over the model region),
- Maximum concentration, and
- Center of mass.

The metrics were calculated based on the model interpolations for each annual monitoring event from August 2008 through August 2024. These metrics quantify the plume characteristics and are analyzed for trends during this period. In addition, trends of the plume metrics were also calculated for the last five years to evaluate the plume metrics since the last evaluation. The results of the trend tests are summarized in Tables 2 and 3. A detailed description of the

calculation methodology is given in Attachment 1. The calculated metrics and statistical analysis results are provided in Attachment 3.

Trend graphs for planar area exceeding the GWPS, average concentration, and maximum concentration plume metrics for each COC are given in Figures 5 and 6 in Attachment 2 for the shallow aquifer and deeper bedrock aquifer, respectively.

Table 2
Summary of Spatial Plume Metric Trend Test Results
All Historical Data (2008 – 2024)

COC	Area Exceeding GWPS	Average Concentration	Maximum Concentration	Mass Center X-Coordinate	Mass Center Y-Coordinate
Shallow Aquifer					
Arsenic	No Trend	No Trend	Increasing	No Trend	Increasing
Cobalt	Decreasing	No Trend	No Trend	No Trend	Increasing
Thallium	No Trend	No Trend	Decreasing	No Trend	No Trend
Vinyl Chloride	Decreasing	Decreasing	Decreasing	Increasing	Decreasing
Deeper Bedrock Aquifer					
Arsenic	No Trend	No Trend	No Trend	Increasing	No Trend
Cobalt	Increasing	Increasing	Increasing	Decreasing	Increasing
Thallium	No Trend	No Trend	Increasing	No Trend	No Trend
Vinyl Chloride	No Trend	No Trend	Decreasing	N/A	N/A

N/A = not applicable

Table 3
Summary of Spatial Plume Metric Trend Test Results
Recent Five-Year Data (2020 – 2024)

COC	Area Exceeding GWPS	Average Concentration	Maximum Concentration	Mass Center X-Coordinate	Mass Center Y-Coordinate
Shallow Aquifer					
Arsenic	No Trend	No Trend	No Trend	No Trend	No Trend
Cobalt	Decreasing	No Trend	No Trend	No Trend	No Trend
Thallium	No Trend	No Trend	No Trend	No Trend	No Trend
Vinyl Chloride	No Trend	No Trend	No Trend	No Trend	No Trend
Deeper Bedrock Aquifer					
Arsenic	No Trend	No Trend	No Trend	No Trend	No Trend
Cobalt	No Trend	No Trend	No Trend	No Trend	No Trend
Thallium	No Trend	No Trend	No Trend	No Trend	No Trend
Vinyl Chloride	No Trend	No Trend	No Trend	N/A	N/A

N/A = not applicable

2.3.1 Arsenic

As stated in Section 2.2.1, arsenic concentrations exceeding the GWPS occurred over a broad area in the shallow aquifer and at three discrete locations in the deeper bedrock aquifer.

Shallow Aquifer
For the overall data in the shallow aquifer, no trends were identified for area exceeding the GWPS and average concentration; however, an increasing trend was identified for maximum concentration. No trends were identified in the recent five-year data in the shallow aquifer. Note that a decreasing trend was identified for area exceeding the GWPS during the 2019 evaluation (Foth, 2020).

As illustrated in Figure 5, the area exceeding the GWPS for arsenic in the shallow aquifer has fluctuated from 2008-2024. In 2008, 127 acres exceeded the GWPS for arsenic in the shallow aquifer. This metric fluctuated and increased to a maximum of 171 acres exceeding the GWPS in 2013. After 2013, area exceeding the GWPS began decreasing until 2019 and 2020, when area exceeding the GWPS was 96 and 99 acres, respectively. In 2021, a rebound occurred resulting in 149 acres exceeding the GWPS for arsenic in the shallow aquifer. Subsequently, area exceeding the GWPS began decreasing again with 110 acres exceeding the GWPS in 2024. Maximum concentrations have occurred along a linear area extending from north to south through the central region of Site 1 at MW-12, MW-16, MW-17, MW-32, and MW-34 and at MW-24 located near the southwest part of Site 1. The increasing trend in plume maximum in the overall data was identified primarily due to 2022-2024 increases in arsenic concentrations at MW-32, located near the southeastern part of Site 1. While increases were identified at MW-32, the remaining shallow aquifer wells generally had stable or decreasing arsenic trends resulting in the fluctuating then decreasing area exceeding the GWPS from 2022-2024. The increases at MW-32 impacted the plume maximum but not the lateral plume size.

The trends for two-dimensional center of mass indicated a slight northward shift in the overall data and no trend in the recent five-year data in the shallow aquifer. The slight northward migration in the center of mass for arsenic in the shallow aquifer in the overall data occurred due to decreasing arsenic concentrations near the southern end of Site 1 primarily between 2013 and 2020. Note that the 2022-2024 increases at MW-32 (plume maximum) also did not impact the trends for two-dimensional center of mass. While increases occurred at MW-32, near the southeastern part of Site 1, decreases in other wells in the southern part of Site 1 resulted in an overall northward migration in the center of mass.

Deeper Bedrock Aquifer
No trends were identified for the overall and the recent five-year data for arsenic in the deeper bedrock aquifer. On average, the area exceeding the GWPS for arsenic from 2008-2024 was 25 acres. As stated in Section 2.2.1, the highest concentrations of arsenic in the deeper bedrock aquifer are located at MW-14 in the north-central area, MW-22 in the northwestern area, and MW-36 in the southeastern area of Site 1

The trends for two-dimensional center of mass indicated a slight westward shift in the overall data and no trend in the recent five-year data for arsenic in the deeper bedrock aquifer. The slight westward shift in the overall data is likely due to decreases at MW-14.

2.3.2 Cobalt

As stated in Section 2.2.2, cobalt concentrations exceeding the GWPS primarily occurred along the eastern side of Site 1 in the shallow and deeper bedrock aquifers.

Shallow Aquifer
Decreasing trends were identified for area exceeding the GWPS and no trends were identified for average and maximum concentration for cobalt in the overall and recent five-year data. The

only change from the 2019 evaluation (Foth, 2020) was that no trend was previously identified for area exceeding the GWPS and the current evaluation indicates a decreasing trend.

As illustrated in Figure 5, the area exceeding the GWPS for cobalt in the shallow aquifer reached a maximum of 75 acres in 2010. While some fluctuations occurred, an overall decreasing trend subsequently occurred (between 2010 and 2024). In 2024, only 5.4 acres exceeded the GWPS for cobalt in the shallow aquifer.

The trends for two-dimensional center of mass indicated a northward shift in the overall data and no trend in the recent five-year data for cobalt in the shallow aquifer. The northward migration in the center of mass in the overall data occurred due to decreasing concentrations near MW-105A in the southeast portion of Site 1.

Deeper Bedrock Aquifer

For the overall data in the deeper bedrock aquifer, increasing trends were identified for cobalt area exceeding the GWPS, average concentration, and maximum concentration. These plume metric trends for the overall data remain unchanged from the previous evaluation (Foth, 2020). No trends were identified in the recent five-year data in the deeper bedrock aquifer.

As illustrated in Figure 6, the area exceeding the GWPS increased from 6.5 acres in 2008 to 71 acres in 2020. Note that the largest increases occurred in 2010 and 2014. After 2014, the slope of the increasing trend is lower. Over the past five years, the area exceeding the GWPS has fluctuated up and down resulting in no trend identified. With only 5 events, it is difficult to ascertain whether the trend for area exceeding the GWPS has stabilized or whether further increases may occur in the future. The increasing trend in maximum concentration for cobalt was driven by two shifts in the data set. The first shift occurred in 2010 when the maximum shifted from non-detects in 2008 and 2009 to the detected maximum of 0.0093 mg/L in 2010 (occurring at AW-6 in the northeast portion of Site 1). Between 2010 and 2017, the cobalt plume maximum remained driven by concentrations at AW-6 which were stable during this time period. The second shift in the data set occurred in 2018 when the plume maximum switched to concentrations identified at MW-109B. Note that MW-109B was installed in November 2017; therefore, the second shift identified may not be representative of an actual change in plume conditions, but rather, due to additional data from adding delineation well MW-109B to the monitoring network. From 2018 to 2024, the plume maximum remained driven by MW-109B which exhibited a stable to decreasing trend over that period.

The trends for two-dimensional center of mass indicated a northwest shift in the overall data and no trend in the recent five-year data for cobalt in the deeper bedrock aquifer. The northwest migration in the center of mass in the overall data occurred due to higher concentrations around MW-107B, MW-22, and CRL-9, located in the northwest portion of Site 1, which began to show more consistent GWPS exceedances after 2014.

2.3.3 Thallium

As stated in Section 2.2.2, thallium in the shallow aquifer initially had isolated GWPS exceedances at MW-12, MW-20, AW-2/MW-24, and MW-30 which decreased to only AW-2 and MW-21 by 2019. Thallium in the deeper bedrock aquifer was limited to GWPS exceedances at MW-107B (northwestern area of Site 1) and MW-109B (southeastern area of Site 1).

Shallow Aquifer
For the overall data in the shallow aquifer, no trends were identified for thallium area exceeding the GWPS and average concentration; however, a decreasing trend was identified for maximum concentration. No trends were identified in the recent five-year data in the shallow aquifer. The only change from the 2019 evaluation (Foth, 2020) was that no trend was previously identified for maximum concentration and the current evaluation indicates a decreasing trend.

As previously stated, the shallow aquifer thallium plume has predominantly consisted of isolated exceedances limiting the overall lateral extent and resulting in area exceeding the GWPS of less than 20 acres except for 2012 and 2014 (i.e., 28.5 and 31.6 acres, respectively). While no trend was identified for area exceeding the GWPS in the overall data, reductions in the thallium plume are evident after 2014. By 2024, only 0.4 acres exceed the GWPS for thallium in the shallow aquifer. Plume maximum concentrations were primarily driven by AW-2, MW-12, and MW-20. Thallium in AW-2, MW-12, and MW-20 had statistically significant decreasing trends from 2012/2013 to 2024 resulting in the decreasing trend for maximum concentration in the overall data for thallium in the shallow aquifer.

No trends were identified for two-dimensional center of mass in the overall and recent five-year data for thallium in the shallow aquifer.

Deeper Bedrock Aquifer
For the overall data in the deeper bedrock aquifer, no trends were identified for thallium area exceeding the GWPS and average concentration; however, an increasing trend was identified for maximum concentration. No trends were identified in the recent five-year data in the deeper bedrock aquifer. The only change from the 2019 evaluation (Foth, 2020) was that a decreasing trend was previously identified for average concentration and the current evaluation indicates no trend.

As previously stated, GWPS exceedances for thallium in the deeper bedrock aquifer were limited to monitoring wells MW-107B and MW-109B. Therefore, the area exceeding the GWPS has remained less than 6 acres from 2008 to 2024. Monitoring was initiated in 2013 at MW-107B and in 2018 at MW-109B. Similar to cobalt in the deeper bedrock aquifer, the increasing trend identified for thallium in the deeper bedrock aquifer is not likely representative of an actual change in plume conditions, but rather, due to additional data from adding delineation wells MW-107B and MW-109B to the monitoring network.

No trends were identified for two-dimensional center of mass in the overall and recent five-year data for thallium in the deeper bedrock aquifer.

2.3.4 Vinyl Chloride

As stated in Section 2.2.4, vinyl chloride concentrations exceeding the GWPS in the shallow aquifer initially occurred in the central region of Site 1 extending from north to south along MW-12, MW-13, MW-16, MW-32, and MW-34. In the deeper bedrock aquifer, isolated individual GWPS exceedances occurred at MW-14 and MW-36 prior to 2014. Note that none of the historical GWPS exceedances for vinyl chloride in deeper bedrock were identified as SSLs over the GWPS using confidence interval comparisons during semiannual statistical evaluations.

Shallow Aquifer
For the overall data in the shallow aquifer, decreasing trends were identified for vinyl chloride area exceeding the GWPS, average concentration, and maximum concentration. These plume

metric trends for the overall data remain unchanged from the previous evaluation (Foth, 2020). No trends were identified in the recent five-year data in the shallow aquifer.

The vinyl chloride plume in the shallow aquifer has been decreasing over time. The area exceeding the GWPS has shrunk from over 20 acres to no area exceeding the GWPS in 2019 and 2024. Over the past five years, the vinyl chloride plume has been limited to GWPS exceedances at MW-34. As noted in Section 2.2.4, vinyl chloride concentrations rebounded at MW-34 in 2021 and then decreased again until concentrations were back below the GWPS in 2024. Due to that slight rebound at MW-34, no trends were identified in the recent five-year data.

The trends for two-dimensional center of mass indicated a southwest shift in the overall data and no trend in the recent five-year data for vinyl chloride in the shallow aquifer. The southwest migration in the center of mass in the overall data occurred due to decreases in MW-12, MW-13, and MW-16 concentrations more to the north.

Deeper Bedrock Aquifer

As previously stated, SSLs over the GWPS have not been identified for vinyl chloride in the deeper bedrock aquifer. The evaluation of plume metric trends is not applicable. A few isolated individual GWPS exceedances occurred at MW-14 and MW-36, and these occurred before 2014.

2.4 Estimated First Order Attenuation

First order attenuation was assessed to evaluate progress with the first order attenuation model results and timeframes presented in the previous plumes stability analysis (Foth, 2019) and to ensure actual conditions are meeting the modeled expectations.

This was completed by evaluating first order attenuation rates given in *An Approach for Evaluating the Progress of Natural Attenuation in Groundwater* (UESPA, 2011). The modeled first order attenuation curves of maximum plume concentrations for arsenic, cobalt, thallium and vinyl chloride are shown in Figure 7 of Attachment 2. Attenuation curves were modeled for cobalt in the shallow aquifer beginning in September 2010; thallium in the shallow aquifer beginning in August 2008; and vinyl chloride in both aquifers beginning in August 2008. Note that no attenuation could be modeled for arsenic in the shallow aquifer and for arsenic, cobalt, and thallium in the deeper bedrock aquifer.

Note that the 2019 plume stability evaluation (Foth, 2020) evaluated first order attenuation rates based on semiannual monitoring events, while the current evaluation is limited to annual monitoring events. Despite the variation in methodology, comparisons were still made between the previous and current evaluations. However, consideration should be given to the potential impacts the methodology change may have had on results in addition to the data itself.

A comparison of the previous and current modeled first order attenuation rates is summarized in Table 4

Table 4
Comparison Summary of First Order Decay of Plume Maximum

COC	Previous Evaluation (2019)		Current Evaluation (2024)	
	First Order Decay Could Be Modeled	Estimated Year to Attain Compliance with the GWPS [1]	First Order Decay Could Be Modeled	Estimated Year to Attain Compliance with the GWPS [1]
Shallow Aquifer				
Arsenic	Yes	2084	No	No Attenuation
Cobalt	Yes	2055	Yes	2096
Thallium	Yes	2032	Yes	2029
Vinyl Chloride	Yes	2021	Yes	2027
Deeper Bedrock Aquifer				
Arsenic	No	No Attenuation	No	No Attenuation
Cobalt	No	No Attenuation	No	No Attenuation
Thallium	No	No Attenuation	No	No Attenuation
Vinyl Chloride	N/A	Currently Attained	N/A	Currently Attained

[1] The projected year of GWPS attainment is based on the first order attenuation curve found through exponential regression modeling. The previous evaluation utilized the August 2008 through August 2019 data (Foth, 2020). The current evaluation utilized August 2008 through August 2024 data.

2.4.1 Arsenic

In the previous evaluation, arsenic attenuation in the shallow aquifer was estimated to attain compliance with the GWPS in 2084. In the current evaluation, first order decay could not be modeled for the plume maximum for arsenic in the shallow aquifer. As further detailed in Section 2.3.1, an increasing trend in maximum concentration was identified primarily due to 2022-2024 increases in arsenic concentrations at MW-32, located near the southeastern part of Site 1. As a result of the increasing trend in maximum concentration, attenuation could no longer be estimated. Note that while the increases at MW-32 impacted the plume maximum, lateral plume size (i.e., area exceeding the GWPS) did not increase.

Consistent with the previous evaluation (Foth, 2020), attenuation could not be modeled for arsenic in the deeper bedrock aquifer.

2.4.2 Cobalt

In the previous evaluation, cobalt attenuation in the shallow aquifer was estimated to attain compliance with the GWPS in 2055. The current evaluation indicated compliance with the GWPS in 2096. The longer timeframe is dictated by elevated concentrations at MW-106A. As detailed in Section 2.3.2, the area exceeding the GWPS for cobalt in the shallow aquifer has been decreasing since 2010 with only 5.4 acres exceeding the GWPS in 2024. The overall plume is shrinking; however, the maximum at MW-106A is projected to take longer to attain compliance with the GWPS due to the elevated and not-trending cobalt concentrations at this location.

Consistent with the previous evaluation (Foth, 2020), attenuation could not be modeled for cobalt in the deeper bedrock aquifer.

2.4.3 Thallium

In the previous evaluation, cobalt attenuation in the shallow aquifer was estimated to attain compliance with the GWPS in 2032. The current evaluation indicated compliance with the GWPS

in 2029. As previously stated, the shallow aquifer thallium plume has predominantly consisted of isolated exceedances limiting the overall lateral extent and resulting in area exceeding the GWPS at less than 20 acres. Plume maximum concentrations were primarily driven by AW-2, MW-12, and MW-20 which each had statistically significant decreasing trends from 2012/2013 to 2024. Due to the ongoing decreases at these locations, the timeframe to attain compliance with the GWPS has decreased by 3 years in the current evaluation.

Consistent with the previous evaluation (Foth, 2020), attenuation could not be modeled for thallium in the deeper bedrock aquifer.

2.4.4 Vinyl Chloride

In the previous evaluation, vinyl chloride attenuation in the shallow aquifer was estimated to attain compliance with the GWPS in 2021. The current evaluation indicated compliance with the GWPS in 2027. The slightly extended timeframe occurred due to the rebound observed for vinyl chloride at MW-34 in 2021. As detailed in Section 2.3.4, vinyl chloride at MW-34 decreased again after 2021 until concentrations were back below the GWPS in 2024.

As previously stated, SSLs over the GWPS have not been identified for vinyl chloride in the deeper bedrock aquifer.

3. Conclusions

The statistical plume analysis provides an enhanced qualitative and quantitative method of evaluating overall groundwater plume trends. This 2024 plume stability update was conducted as part of a five-year review cycle for quantitatively assessing the progress of the MNA remedy for the groundwater plumes at Site 1. Spatial metrics were calculated from interpolations of arsenic, cobalt, thallium, and vinyl chloride for the annual data collected from August 2008 through August 2024. First order attenuation was assessed to evaluate progress with the first order attenuation model results and timeframes presented in the previous plumes stability analysis (Foth, 2020) and to ensure actual conditions are meeting the modeled expectations.

Since optimized groundwater monitoring frequencies were implemented starting in 2021, this five-year review cycle was based on interpolations and trends from annual monitoring events. The 2014 and 2019 plume stability analyses (Foth, 2015a and 2020) utilized interpolations and trends from semiannual monitoring events. In addition, groundwater monitoring wells removed from the monitoring network due to spatial optimization and abandonment were removed from the current plume stability analysis. Additional discussion regarding the data set and assumptions is provided in Section 2.1

As further discussed in Sections 3.1 and 3.2, the five-year review has indicated progress with the MNA remedy. Continued implementation of the MNA remedy is recommended.

3.1 Shallow Aquifer

Based on the plume metric trend results for the shallow aquifer, the plume areas for each COC are either stable or shrinking. For the shallow aquifer, the area exceeding the GWPS for thallium and vinyl chloride has decreased from over 20 acres to 0.4 acres for thallium and to no area exceeding the GWPS for vinyl chloride in 2024. Cobalt in the shallow aquifer decreased from a maximum of 75 acres exceeding the GWPS in 2010 to 5.4 acres exceeding the GWPS in 2024. For arsenic in the shallow aquifer, the area exceeding the GWPS has fluctuated from 2008-2024

with a maximum plume area of 171 acres in 2013 and 110 acres exceeding the GWPS by 2024. For arsenic in the recent five-year data, a rebound occurred in 2021 then decreased from 2022-2024. While statistically significant decreasing trends were not identified for area exceeding the GWPS in the overall and recent five-year data, shorter-term decreases were visually identified in the 2013-2020 data and 2022-2024 data (i.e., after the rebound occurred in 2021).

The only increasing trend identified for area exceeding the GWPS, average concentration, or maximum concentration in the shallow aquifer was the maximum concentration for arsenic. This increasing trend was primarily driven by the 2022-2024 increases in arsenic concentrations at MW-32, located near the southeastern part of Site 1. As a result of the increasing trend in maximum concentration driven by MW-32, first order decay could not be modeled for arsenic and no estimation of the timeframe to attain compliance with the GWPS was possible. While increases were identified at MW-32, the remaining shallow aquifer wells generally had stable or decreasing arsenic trends. The increases at MW-32 impacted the plume maximum but not the lateral plume size.

Where trends in the two-dimensional center of mass were identified in the shallow aquifer (i.e. arsenic cobalt, and vinyl chloride), the trends were primarily due to relative concentration decreases, not increases. The slight northward migration in the center of mass for arsenic occurred due to decreasing concentrations near the southern end of Site 1 primarily between 2013 and 2020. While arsenic increases occurred from 2022-2024 at MW-32, near the southeastern part of Site 1, decreases in other wells in the southern part of Site 1 result in an overall northward migration in the center of mass. For cobalt, the northward migration in the center of mass occurred due to decreasing concentrations near MW-105A in the southeast portion of Site 1. For vinyl chloride, the southwest migration in the center of mass occurred due to decreases in MW-12, MW-13, and MW-16 concentrations more to the north.

As listed in Table 4, first order attenuation was estimated for the maximum plume concentration with each COC except arsenic. As discussed above, attenuation could not be modeled for arsenic. The estimated time for attenuated concentrations to reach the GWPS are 2096 for cobalt, 2029 for thallium, and 2027 for vinyl chloride. For cobalt, the timeframe to attain compliance with the GWPS was longer than the 2019 evaluation (Foth, 2020) due to elevated concentrations at MW-106A. While the overall cobalt plume is shrinking, the maximum at MW-106A is projected to take longer to attain compliance with the GWPS due to the elevated and not-trending cobalt concentrations at this location. For thallium, the timeframe to attain compliance with the GWPS was three years shorter than the 2019 evaluation (Foth, 2020) and driven by ongoing decreases at AW-2, MW-12, and MW-12. For vinyl chloride, the timeframe to attain compliance with the GWPS increased by six years compared to the 2019 evaluation (Foth, 2020). The slightly extended timeframe occurred due to the rebound observed for vinyl chloride at MW-34 in 2021. Vinyl chloride in MW-34 decreased again after 2021 until concentrations reduced back below the GWPS in 2024.

In addition to the stable or shirking plume metric trends for the shallow aquifer, semiannual statistical evaluations over the past five years indicated continued improvements in the corrective action and delineation monitoring programs. In accordance with IAC 113.10(9)e(2), four analyte/well pairs (i.e., arsenic in MW-20 and cobalt in AW-5, MW-27, and MW-35) exited correction action during the 2020-2024 review cycle. In addition, compliance with the GWPS was newly achieved for thallium in MW-20 and cobalt in MW-105A in Fall 2024; therefore, thallium in MW-20 and cobalt in MW-105A will attain compliance with the GWPS for three

consecutive years in Fall 2026 and return to assessment constituents in 2027 as long as concentrations remain statistically below the GWPS during interim statistical evaluations. For the remaining corrective action constituents listed in Table 1, statistically significant decreasing trends were identified for arsenic in AW-1, MW-12, MW-17, MW-24, MW-30, MW-34, and MW-106A; thallium in AW-2; and vinyl chloride in MW-34.

3.2 Deeper Bedrock Aquifer

Based on the plume metric trend results for the deeper bedrock aquifer, the plume areas for each COC appear to be stable, except for cobalt in the deeper bedrock aquifer. For arsenic, an average of 25 acres exceeded the GWPS from 2008-2024. The slight westward migration in the center of mass for arsenic is likely due to decreases at MW-14. For thallium, area exceeding the GWPS was less than 6 acres from 2008-2024 and was limited to exceedances at MW-107B and MW-109B. No trend was identified for the two-dimensional center of mass for thallium. No plume exists for vinyl chloride in the deeper bedrock aquifer; SSLs over the GWPS have not been identified.

While no trends were identified for area exceeding the GWPS and average concentration for thallium, maximum concentration had an increasing trend in the overall data. GWPS exceedances for thallium in the deeper bedrock aquifer were limited to monitoring wells MW-107B and MW-109B. Therefore, the area exceeding the GWPS has remained less than 6 acres from 2008 to 2024. Monitoring was initiated in 2013 at MW-107B and in 2018 at MW-109B. Similar to cobalt in the deeper bedrock aquifer, the increasing trend identified for thallium in the deeper bedrock aquifer is not likely representative of an actual change in plume conditions, but rather, due to additional data from adding delineation wells MW-107B and MW-109B to the monitoring network.

For cobalt, increasing trends were identified for area exceeding the GWPS, average concentration, and maximum concentration. The area exceeding the GWPS increased from 6.5 acres in 2008 to 71 acres in 2020 and remained relatively stable from 2020-2024. The largest increases in area exceeding the GWPS occurred in 2010 and 2014. After 2014, the slope of the increasing trend is lower. For maximum concentration, the increasing trend was driven by two shifts in the data. The first shift occurred in 2010 when the maximum shifted from non-detect in 2008/2009 to the detected maximum of 0.0093 mg/L in 2010. Between 2010 and 2017, the plume maximum was driven by AW-6 which remained stable during this time. The second shift occurred in 2018 when the plume maximum switched to newly added delineation well MW-109B. MW-109B was installed in November 2017; therefore, the second shift identified may not be representative of an actual change in plume conditions, but rather, due to additional data from adding MW-109B to the monitoring network. From 2018-2024, the plume maximum remained driven by MW-109B which exhibited a stable to decreasing trend over that period.

Consistent with the 2019 evaluation (Foth, 2020), attenuation could not be modeled for arsenic, cobalt, and thallium in the deeper bedrock aquifer.

4. References

Foth Infrastructure & Environment, LLC (Foth), 2015a. *2014 Annual Water Quality Report, Cedar Rapids/Linn County Solid Waste Agency Site No. 1, DNR Permit No. 57-SDP-03-75C, Project I.D.: 14C061.00.* January 29. [Doc. No. 82643, 82499, 82502, 82503].

Foth, 2015b. *Response to DNR Comments dated March 10, 2015, Cedar Rapids/Linn County Solid Waste Agency Site 1, Permit No. 57-SDP-03-75C.* May 6. [Doc. No. 83348].

Foth, 2019. *2018 Annual Water Quality Report, Cedar Rapids Linn County Solid Waste Agency Site 1, 2250 A Street SW, Cedar Rapids, IA 52404, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 18C061.00.* January 31. [Doc. No. 94330].

Foth, 2020. *2019 Annual Water Quality Report, Cedar Rapids Linn County Solid Waste Agency Site 1, 2250 A Street SW, Cedar Rapids, IA 52404, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 19C061.00.* January 29. [Doc. No. 96887].

Foth, 2023. *2022 Annual Water Quality Report, Cedar Rapids Linn County Solid Waste Agency Site 1, 2250 A Street SW, Cedar Rapids, IA 52404, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 22C061.00*. January 20. [Doc. No. 105540].

Foth, 2024. *2023 Annual Water Quality Report, Cedar Rapids Linn County Solid Waste Agency Site 1, 2250 A Street SW, Cedar Rapids, IA 52404, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 23C071.00*. January 23. [Doc. No. 108899].

Howard R. Green Company (HRG), 2001. *Phase II Groundwater Quality Assessment Report, Volumes I & II, Bluestem Solid Waste Agency, Site No. 1, Cedar Rapids, IA.* April 30. [Doc. No. 52494 & 52495].

Iowa Department of Natural Resources (Matthew R. Phoenix, P.E.), Letter to Karmin McShane, 12 May 2016. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill (Site #1 – Cedar Rapids), 2015 Annual Water Quality Report and 2015 Statistical Notifications, Permit No. 57-SDP-03-75C." [Doc. #86317].

Iowa Department of Natural Resources (Matthew Graesch), Letter to Karmin McShane, 16 Apr 2019. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill #1, Permit No. 57-SDP-03-75C, 2019 Annual Water Quality Report (Doc No. 94330)." [Doc. No. 94910].

Iowa Department of Natural Resources (Matthew Graesch), Letter to Karmin McShane, 2 Jul 2020. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill #1, Permit No. 57-SDP-03-75C, Groundwater Monitoring Optimization Report (Doc No. 97853)." [Doc. No. 98023].

Iowa Department of Natural Resources (Michael W. Smith), Letter to Karmin McShane, 14 Jun 2022. "Cedar Rapids/Linn County Solid Waste Agency Sanitary Landfill #1, Permit No. 57-SDP-03-75C, 2023 Spring Annual Water Quality Report (Document No. 106914), 2022 Annual Water Quality Report (Document No. 105540), Permit Amendment #19". [Doc. No. 106985].

United States Environmental Protection Agency (USEPA), 2011. *An Approach for Evaluating the Progress of Natural Attenuation in Groundwater*. EPA 600/R-11/204. Office of Research and Development, National Risk Management Research Laboratory, Ada, Oklahoma.

Attachment 1
Description of Modeling and Statistical Methods

Foth

Memorandum

Modeling and Statistical Methodology

The two-dimensional concentration plume interpolations were developed through statistical kriging using logarithmic interpolation. The horizontal anisotropy was set to 1/1.2 which provided the best capture of observed sample results. The major axis was set to 10 degrees clockwise of the northing.

Earth Volumetric Studio v2024.3 (C Tech) was utilized to perform the model interpolations and spatial metric calculations. The spatial metrics of planar area, average and maximum concentration, and center of mass are calculated through custom macros developed within the EVS software.

Non-detects in the data set were set to an arbitrarily low value to limit the influence of changing detection limits. For arsenic, 10% of the method detection limit (MDL) was utilized for non-detects. For cobalt, thallium and vinyl chloride, 1% of the MDL was utilized for non-detects to further avoid detection limit influence on the analysis, since detection limit values for certain samples were relatively close to the GWPS.

Missing values within a dataset were approximated through linear interpolation. Monitoring at MW-101A through MW-107B began in September of 2013, and monitoring at MW-108A through MW-109B began in November of 2017. Although data gaps exist for these newer locations prior to the installation dates, they still were included in the model interpolations since they provide useful information regarding plume delineation. Concentration estimates at these locations utilized for modeling purposes prior to the well installation dates were extrapolated back to 2008.

Calculation of the spatial metrics were performed directly in Earth Volumetric Studio for each time event. Formulations of the spatial metrics are given below. The two-dimensional set of interpolated concentrations at each mesh node is denoted {*cx,y*} with *x* and *y* denoting coordinates in the easting and northing directions. The corresponding polygon area for a node located at horizontal coordinates (*x, y*) is denoted $A_{x,y}$.

Planar Area

The planar area gives the horizontal footprint of the concentration plume above a concentration cut-off value of *k*. The planar area is calculated as:

$$\sum_{x,y} I\left[\underset{z}{Max}\left(c_{x,y,.}\right) \geq k\right] \cdot A_{x,y} \qquad \text{(Equation 1)}$$

where *I* denotes the indicator function, taking on a value of 1 if the corresponding condition is true, and 0 if it is false.

Average Concentration

The average concentration gives the average plume concentration over the two-dimensional region in which plume concentrations are above a concentration cut-off value of *k*. The average concentration is a weighted average, weighted by the representative node volumes. The average concentration is calculated as:

$$\frac{\sum_{x,y} c_{x,y} \cdot A_{x,y}}{\sum_{x,y} A_{x,y}} \qquad \text{(Equation 2)}$$

Two-Dimensional Center of Mass

The two-dimensional center of mass calculates a weighted average of the coordinate space, weighted by plume mass estimates at each mesh node. The two-dimensional center of plume mass is calculated as:

$$\text{center of mass } x \text{ coordinate} = \frac{\varphi \cdot B \cdot \sum_{x,y} x \cdot c_{x,y} \cdot A_{x,y}}{\varphi \cdot B \cdot \sum_{x,y} c_{x,y} \cdot A_{x,y}} \qquad \text{(Equation 3)}$$

$$\text{center of mass } y \text{ coordinate} = \frac{\varphi \cdot B \cdot \sum_{x,y} y \cdot c_{x,y} \cdot A_{x,y}}{\varphi \cdot B \cdot \sum_{x,y} c_{x,y} \cdot A_{x,y}} \qquad \text{(Equation 4)}$$

where φ and B are estimated porosity and mass conversion constants. Note these constants may be eliminated from the calculation as they cancel (refer to Equation 3 and Equation 4).

Trends of the spatial metrics are evaluated utilizing the Mann-Kendall trend test. This is a non-parametric test that evaluates data trends by comparing all measurement pairs in the data set (i.e., the spatial metrics). The Mann-Kendall trend tests were performed as a two-tailed test with a Type I error level of 0.05 (or $\alpha/2 = 0.025$). The Mann-Kendall test is described further in *Statistical Methods for Environmental Pollution Monitoring* (Gilbert, 1987) and *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance* (USEPA, 2009).

This approach to assessing plume stability is well documented. The method under a two-dimensional scheme is presented as a module to the U.S. Air Force Center for Environmental Excellence software package MAROS, or Monitoring and Remediation Optimization System (AFCEE, 2012), which is optimization software for groundwater monitoring programs. It is also presented under a two-dimensional scheme in Ricker (2008), utilizing the software package Surfer® by Golden Software.

First Order Rate of Attenuation

Trends in plume maximum concentration are further evaluated through the method of applying a first order attenuation rate law, as presented in *An Approach for Evaluating the Progress of Natural Attenuation in Groundwater* (USEPA, 2011). The first order rate of attenuation is governed by the following equation:

$$C/C_0 = e^{-kt} \qquad \text{(Equation 5)}$$

where C/C_0 is the concentration reduction, k is the first order rate constant for attenuation and t is the time elapsed. This equation describes an exponential concentration decrease from an initial concentration C_0 , with the rate of change in concentration at any instant in being proportional to the concentration at that instant.

Observe that Equation 5 can be re-written as:

$$\ln(C) = \ln(C_0) - kt \qquad \text{(Equation 6)}$$

Therefore, when attenuation follows a first order rate law, linear regression modeled on the logarithms of the data may be used to provide an estimate of the rate constant, k.

An Approach for Evaluating the Progress of Natural Attenuation in Groundwater (USEPA, 2011) suggests modeling Equation 6 as described through linear regression, and using statistical inference on the rate constant to develop a lower 80% confidence limit on the regression line. The lower 80% confidence limit on the regression line provides for a decision criterion in assessing at what time point attenuated plume concentrations would be below cleanup criteria. If the lower 80% confidence limit remains above the cleanup criteria, there exists statistical evidence which indicates the cleanup criteria will not be achieved.

References

Gilbert, Richard O., 1987. *Statistical Methods for Environmental Pollution Monitoring*. Van Nostrand Reinhold, New York.

Ricker, Joseph A., 2008. *A Practical Method to Evaluate Ground Water Contaminant Plume Stability*. Groundwater Monitoring and Remediation, Vol. 28, No. 4. National Groundwater Association. Fall 2008.

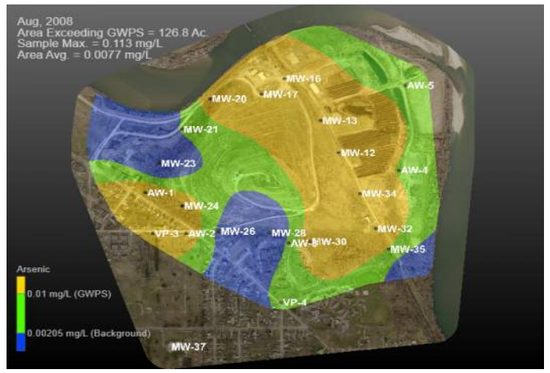
U.S. Air Force Center for Environmental Excellence (AFCEE), 2012. *Monitoring and Remediation Optimization System (MAROS) v3.0 Software Users Guide*. GSI Environmental, Inc., Houston, TX.

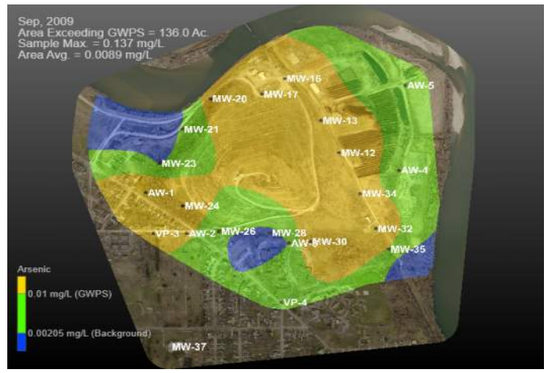
United States Environmental Protection Agency (USEPA), 2005. *Road Map to Long Term Monitoring Optimization*. EPA 542-R-05-003, EPA/National Service Center for Environmental Publications, Cincinnati, OH.

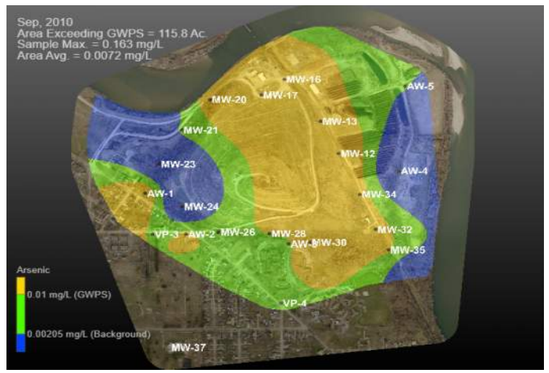
USEPA, 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*. EPA 530-R-09-007. Office of Resource Conservation and Recovery, Program Implementation and Information Division, Washington, D.

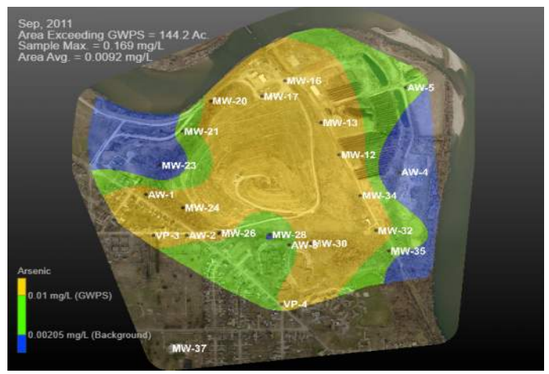
USEPA, 2011. *An Approach for Evaluating the Progress of Natural Attenuation in Groundwater*. EPA 600/R-11/204. Office of Research and Development, National Risk Management Research Laboratory, Ada, Oklahoma.

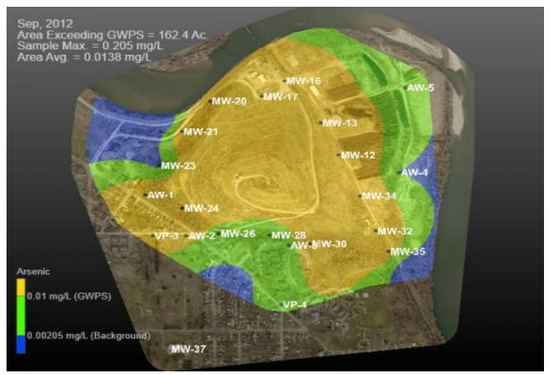
Attachment 2
Figures

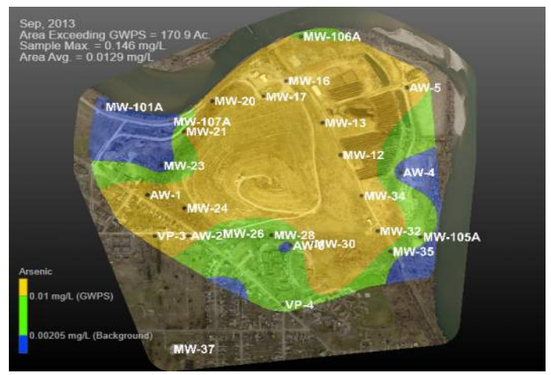


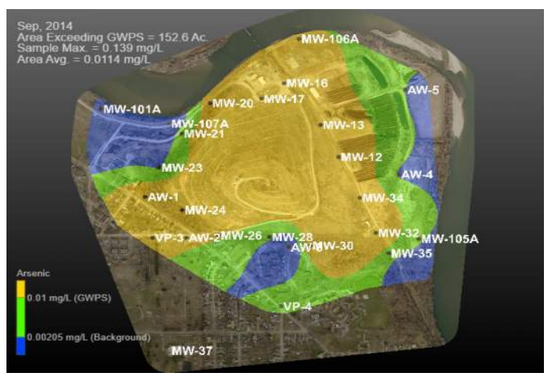


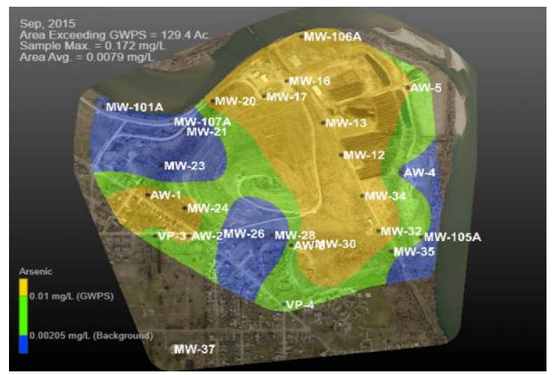


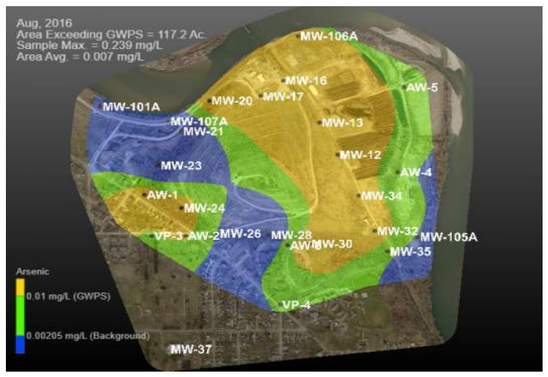


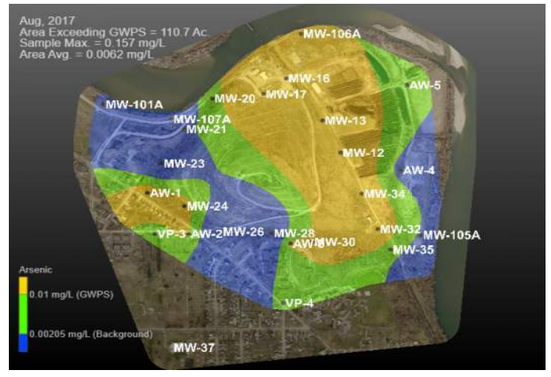


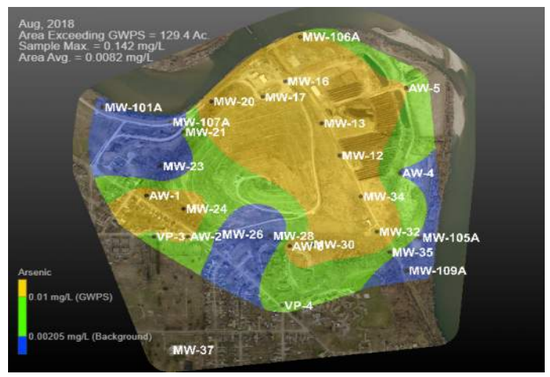


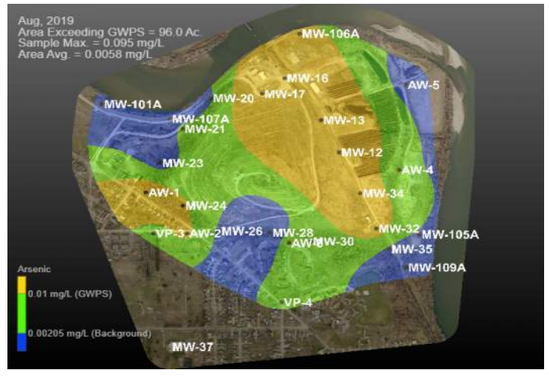












Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

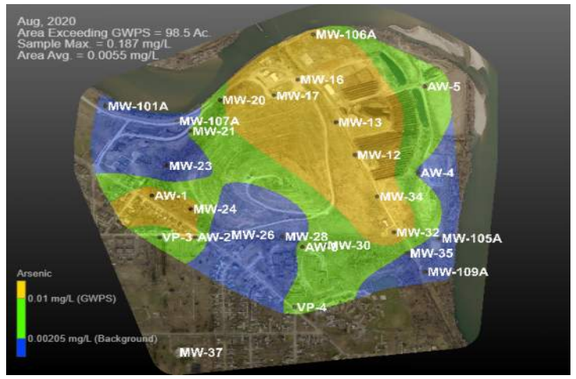
Foth

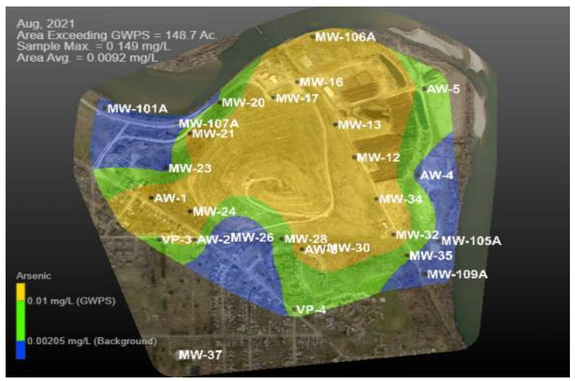
Cedar Rapids Linn County Solid Waste Agency Site 1

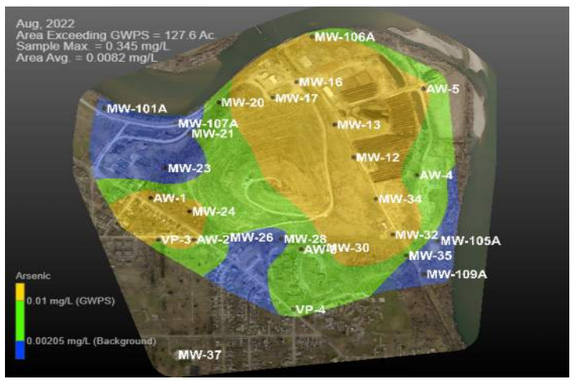
FIGURE 1A
ARSENIC INTERPOLATIONS
FALL 2008 THROUGH FALL 2019 ANNUAL EVENTS
SHALLOW AQUIFER

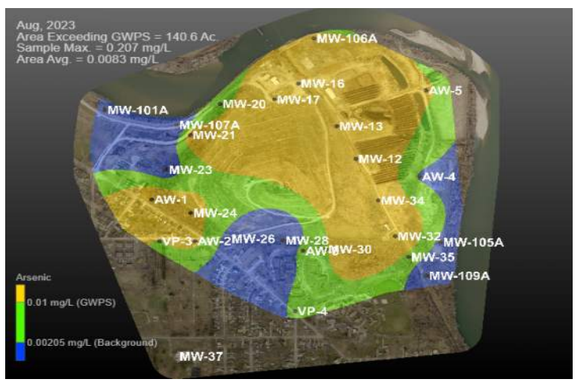
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

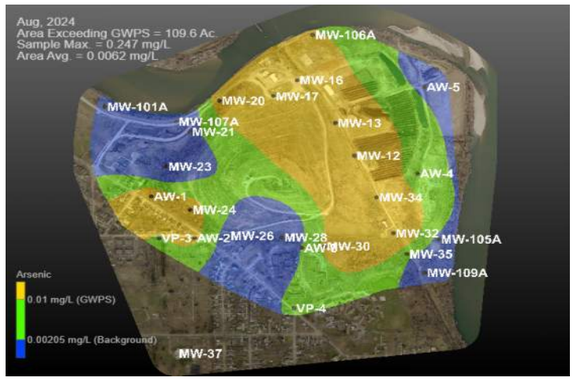
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx











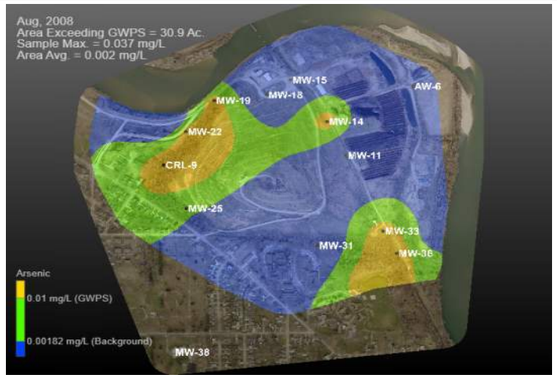
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

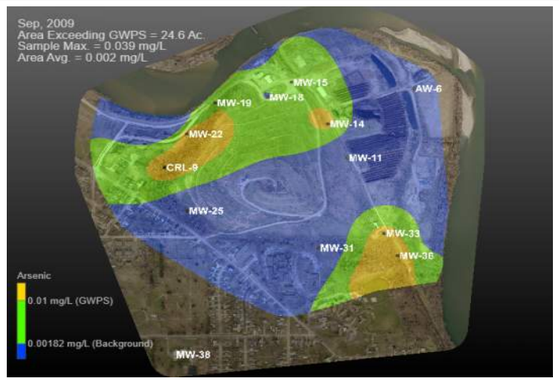
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

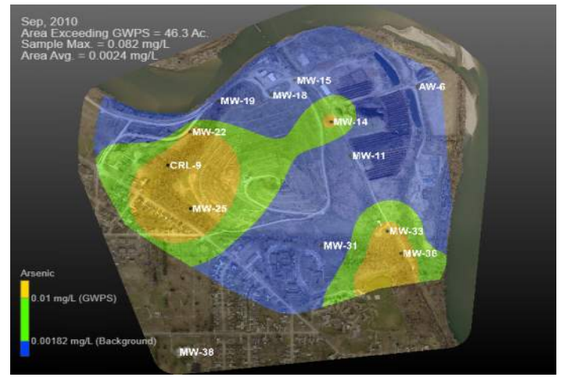
Foth

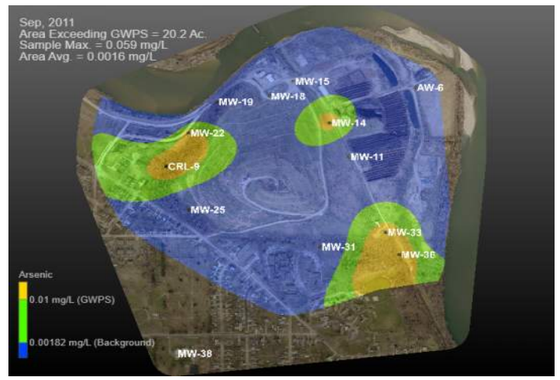
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 1B ARSENIC INTERPOLATIONS FALL 2020 THROUGH FALL 2024 ANNUAL EVENTS SHALLOW AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

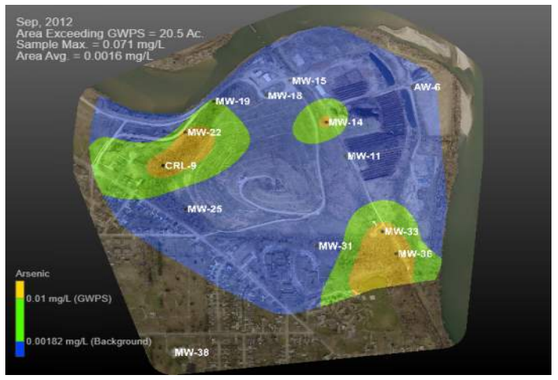
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx

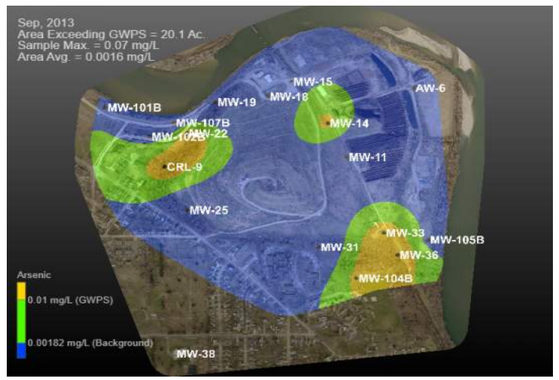


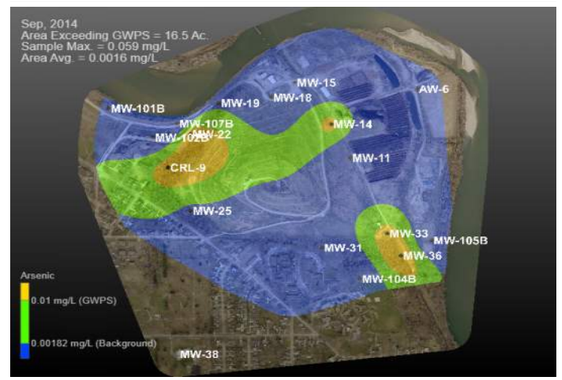


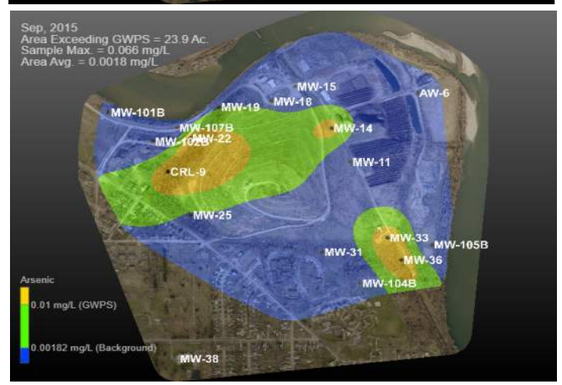


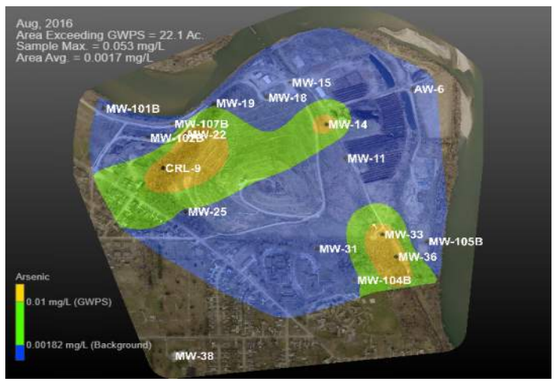


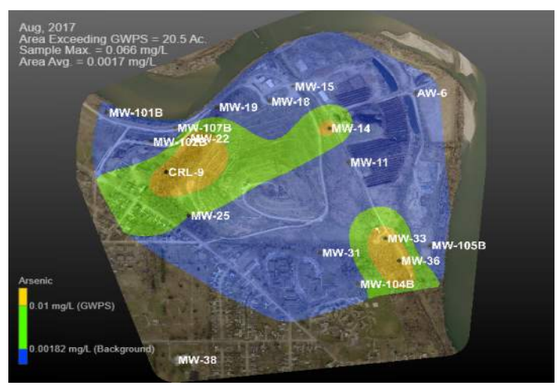


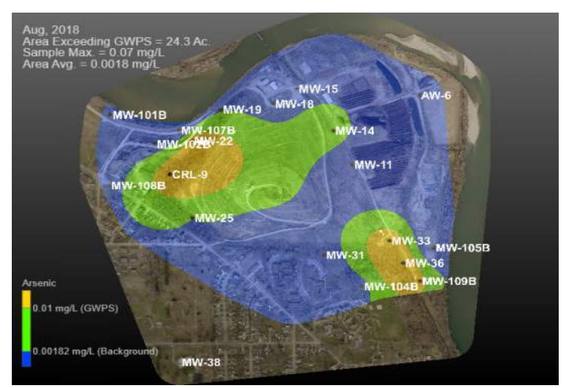


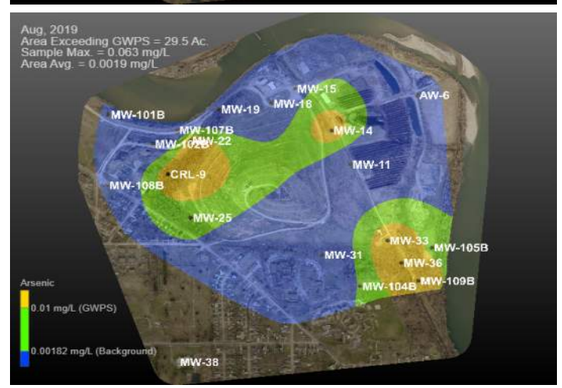












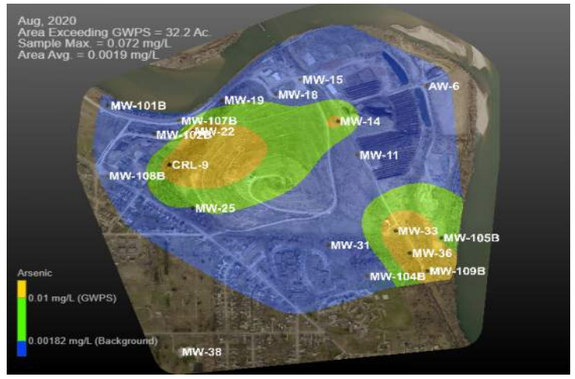
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

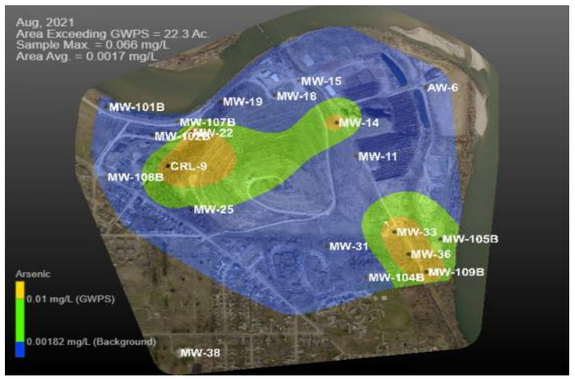
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

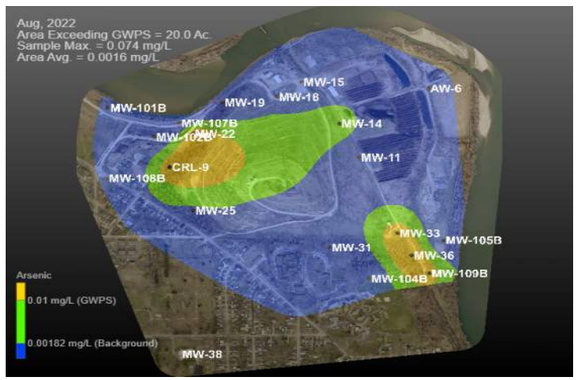
Foth

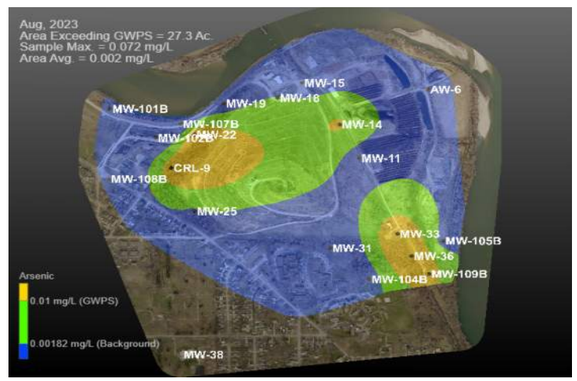
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 1C ARSENIC INTERPOLATIONS FALL 2008 THROUGH FALL 2019 ANNUAL EVENTS DEEPER BEDROCK AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

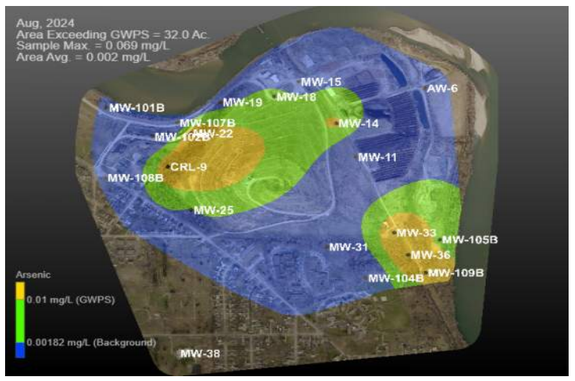
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx











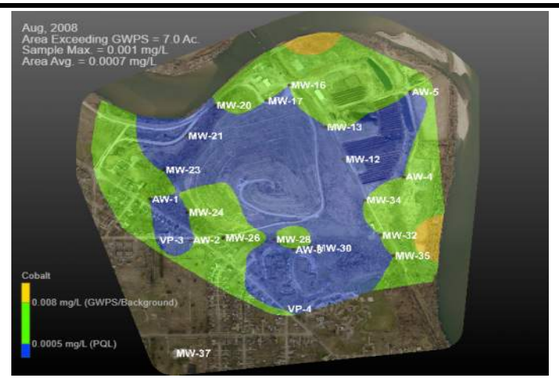
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

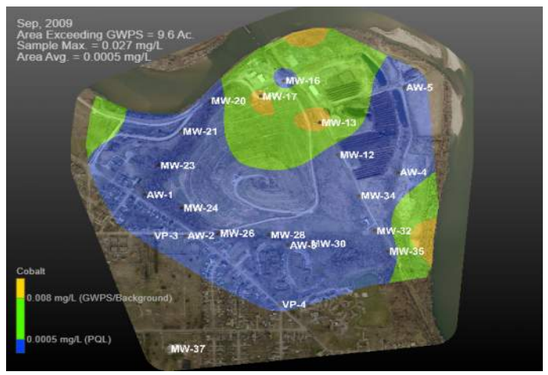
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

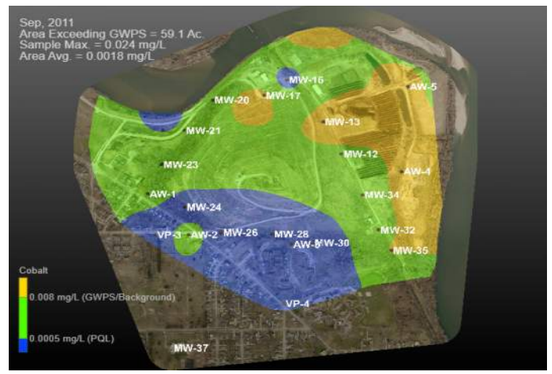
Foth

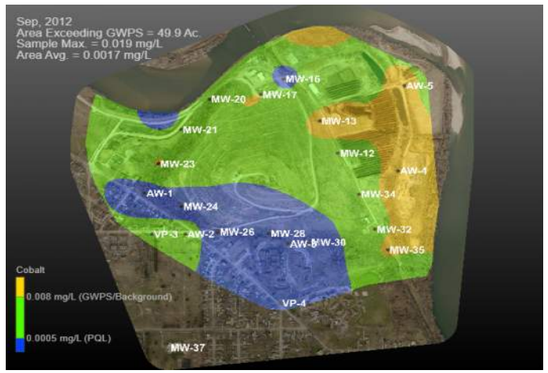
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 1D ARSENIC INTERPOLATIONS FALL 2020 THROUGH FALL 2024 ANNUAL EVENTS DEEPER BEDROCK AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

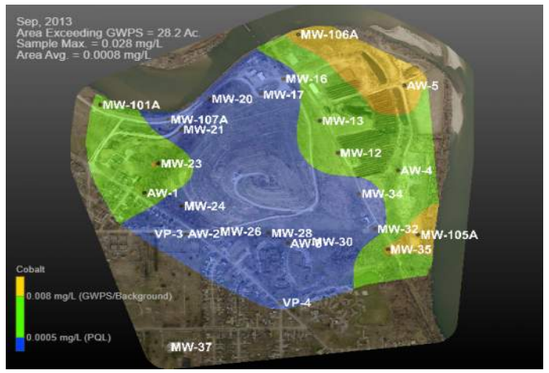
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx

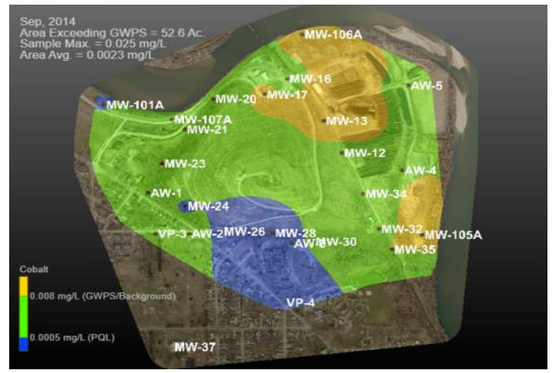


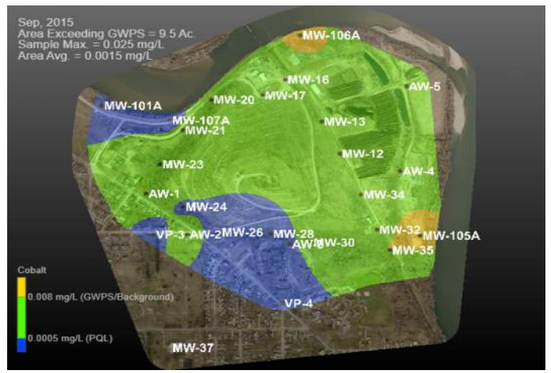


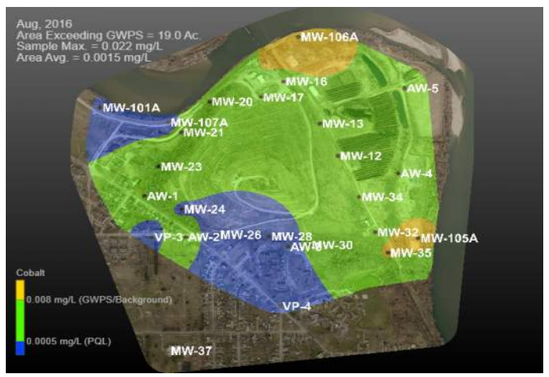


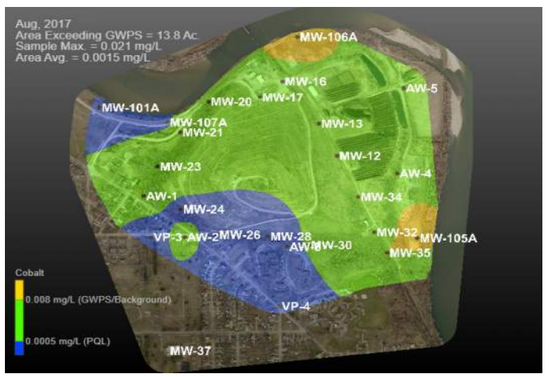


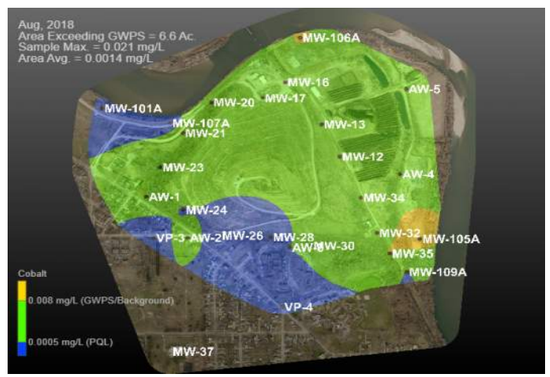


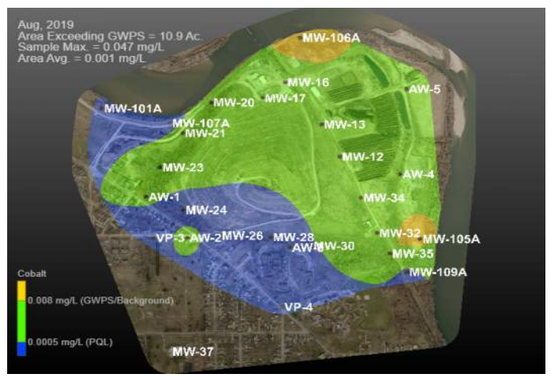












Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

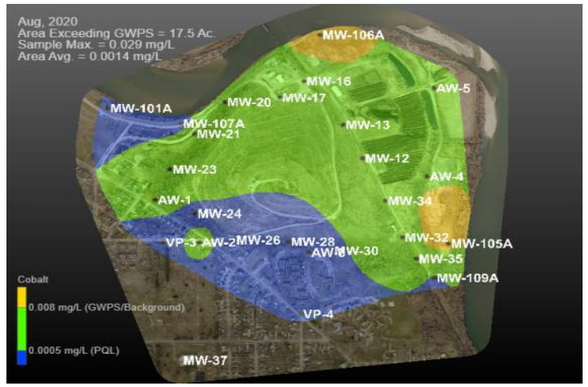
Foth

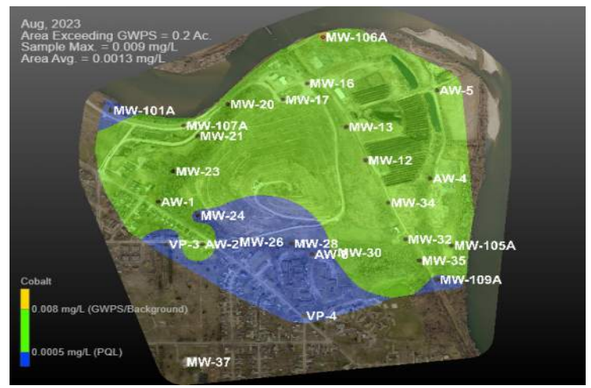
Cedar Rapids Linn County Solid Waste Agency Site 1

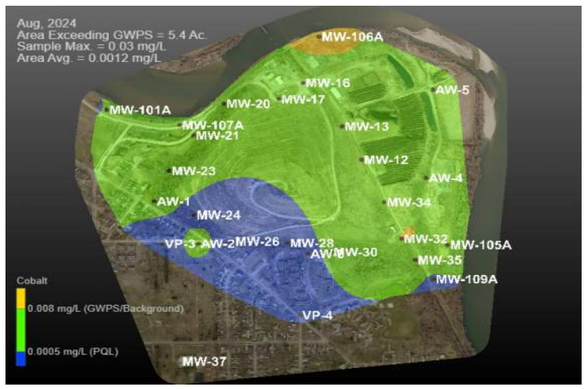
FIGURE 2A
COBALT INTERPOLATIONS
FALL 2008 THROUGH FALL 2019 ANNUAL EVENTS
SHALLOW AQUIFER

Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx







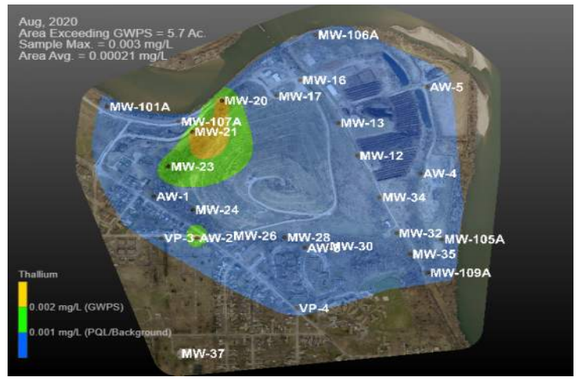
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

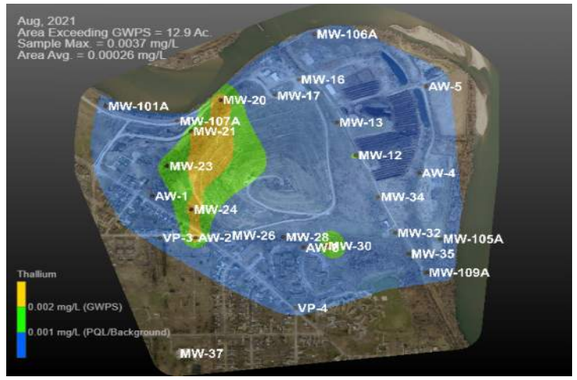
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

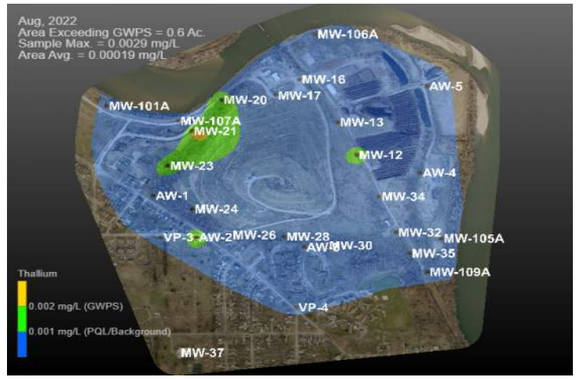
Foth

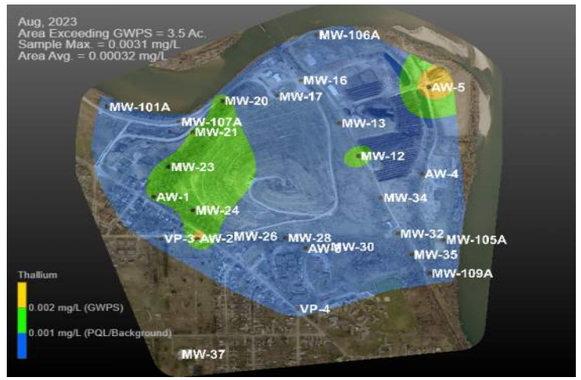
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 2B COBALT INTERPOLATIONS FALL 2020 THROUGH FALL 2024 ANNUAL EVENTS SHALLOW AQUIFER AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

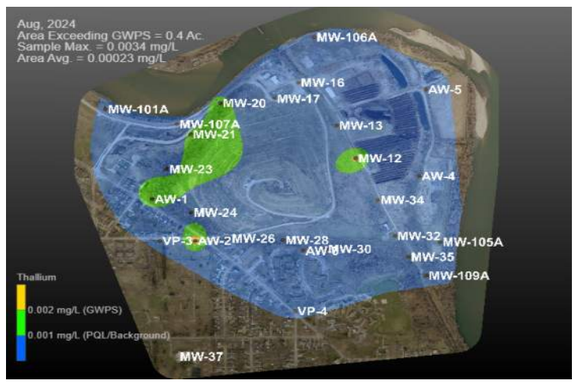
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx











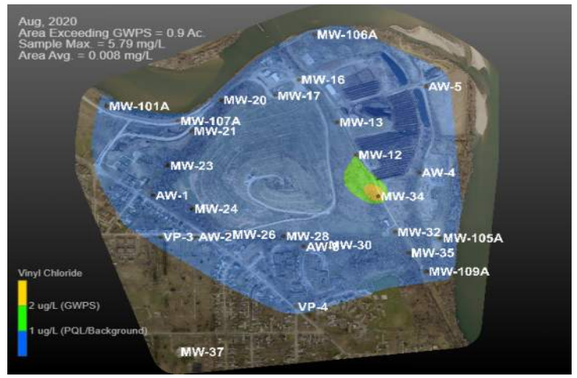
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

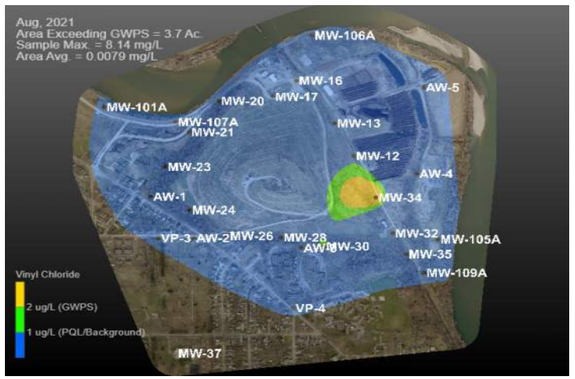
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

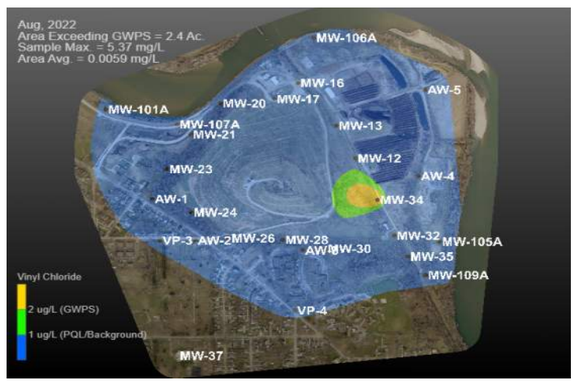
Foth

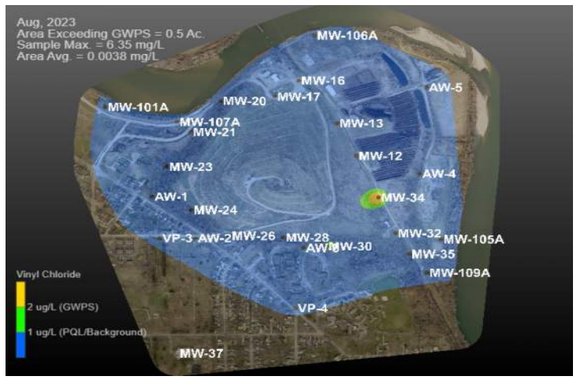
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 3B THALLIUM INTERPOLATIONS FALL 2020 THROUGH FALL 2024 ANNUAL EVENTS SHALLOW AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

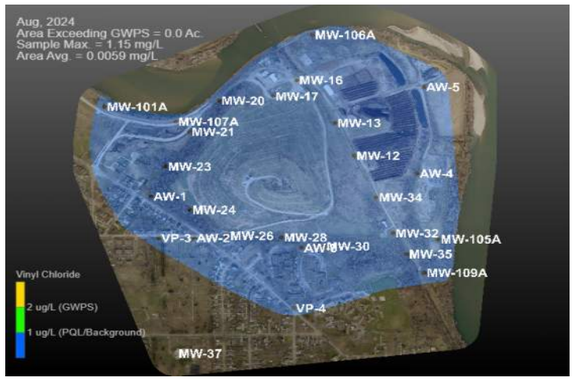
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx











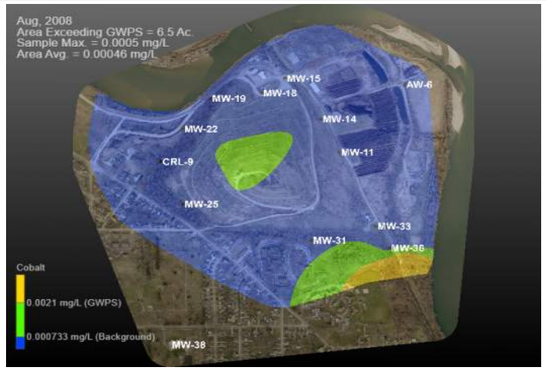
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

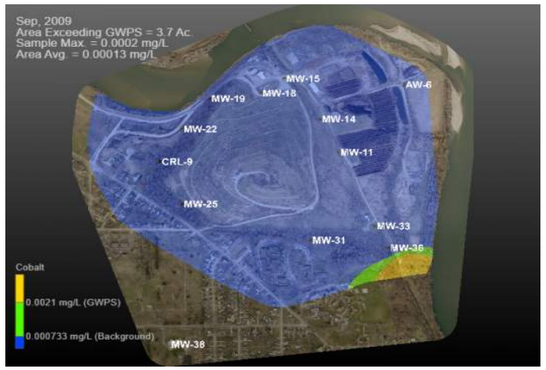
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

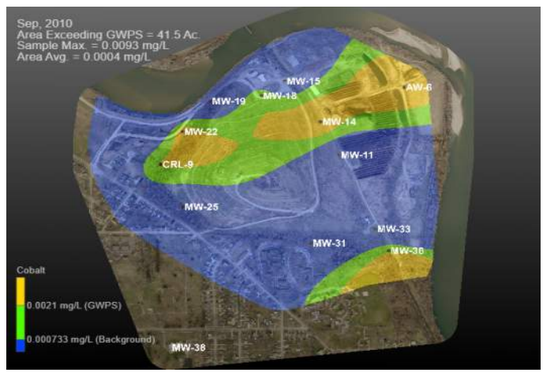
Foth

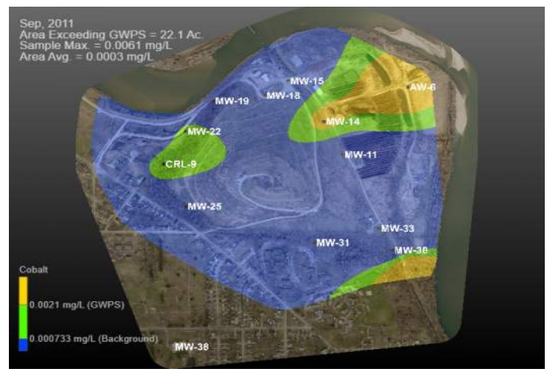
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 4B VINYL CHLORIDE INTERPOLATIONS FALL 2020 THROUGH FALL 2024 ANNUAL EVENTS SHALLOW AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

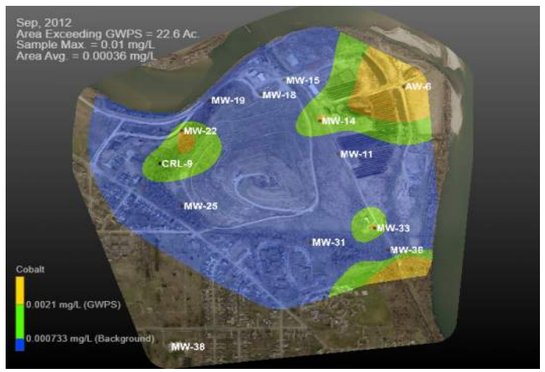
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx

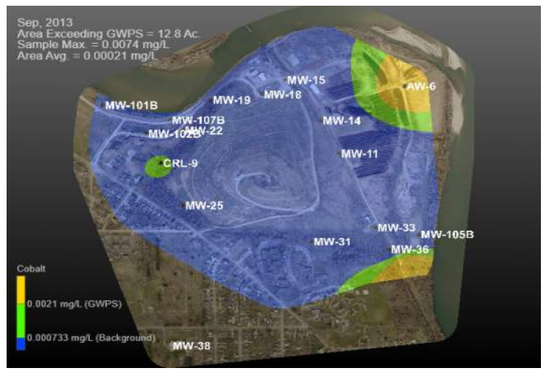


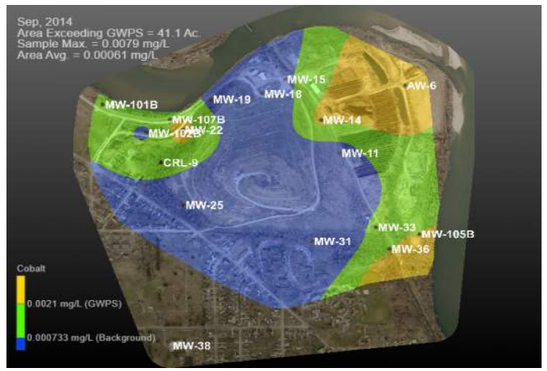


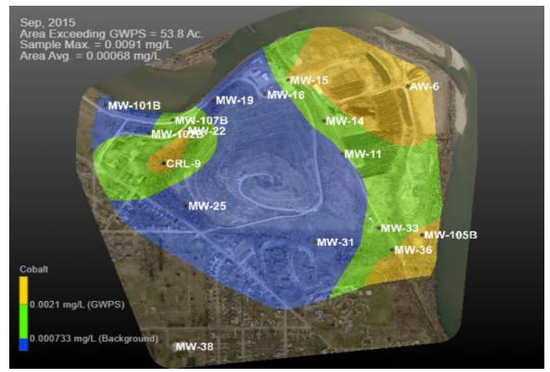


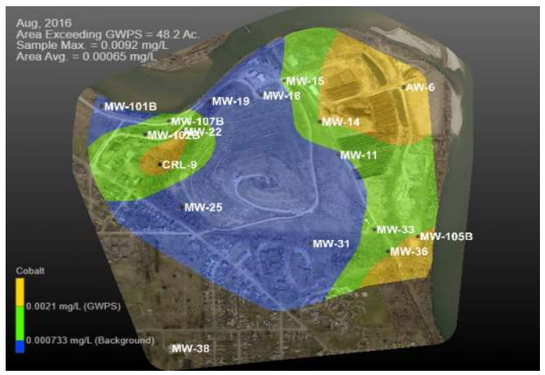


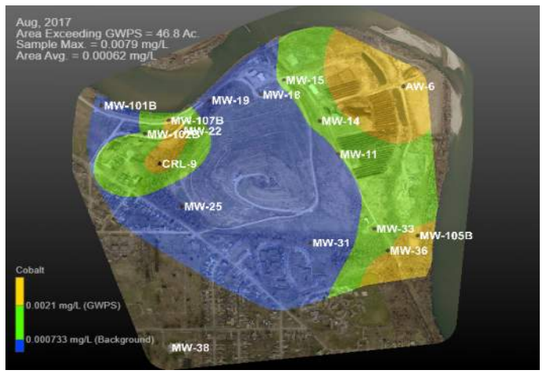


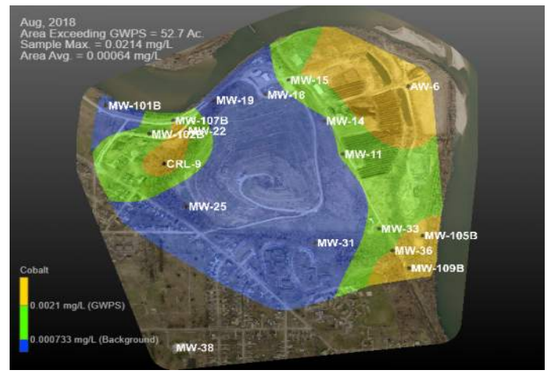


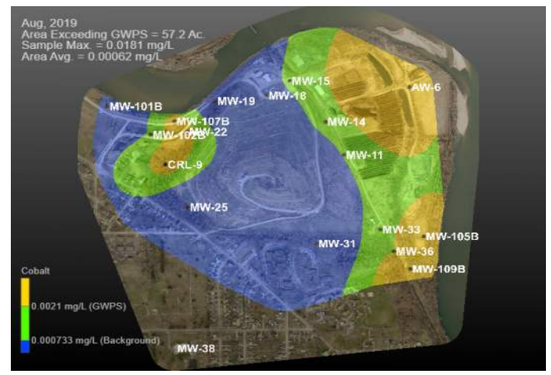












Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

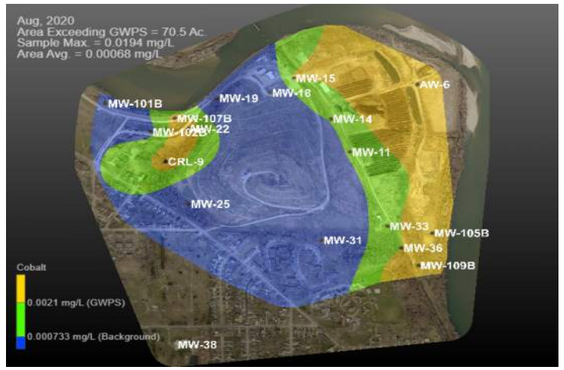
Foth

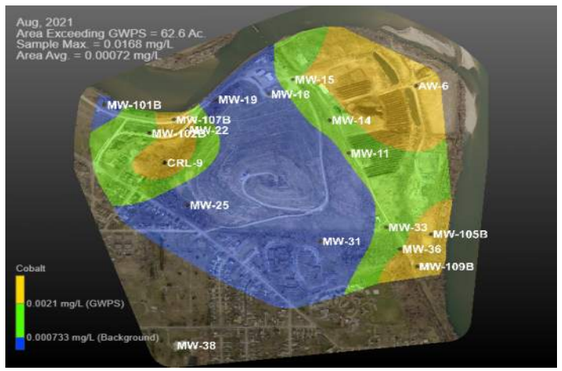
Cedar Rapids Linn County Solid Waste Agency Site 1

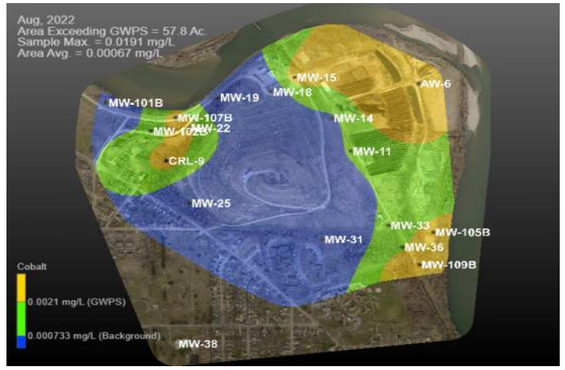
FIGURE 2C
COBALT INTERPOLATIONS
FALL 2008 THROUGH FALL 2019 ANNUAL EVENTS
DEEPER BEDROCK AQUIFER

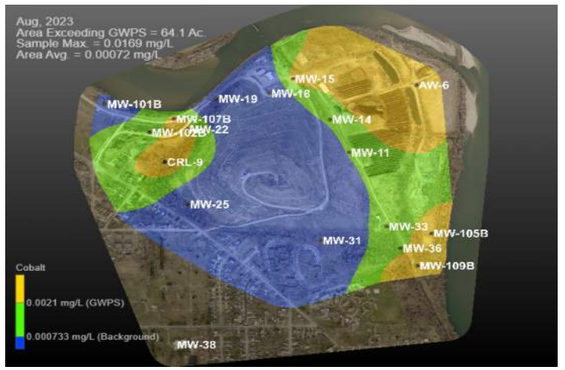
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

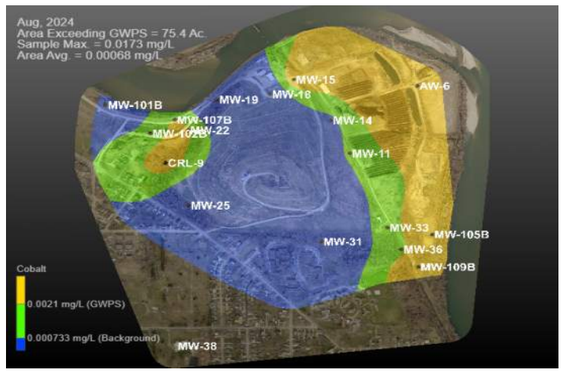
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx











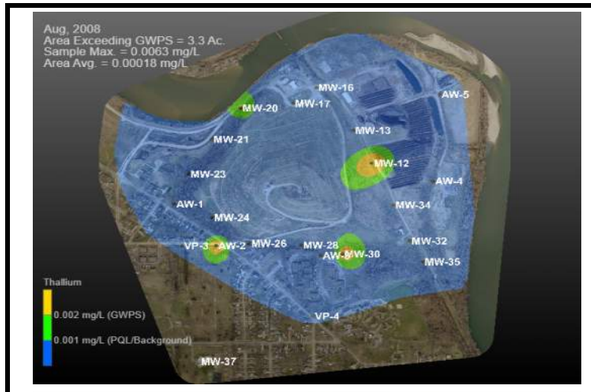
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

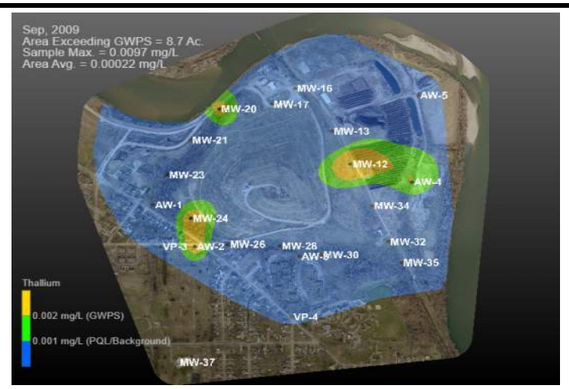
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

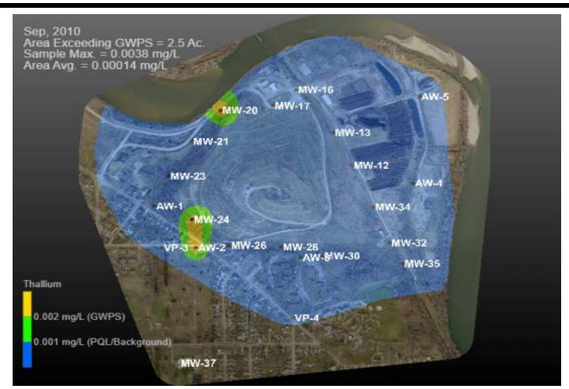
Foth

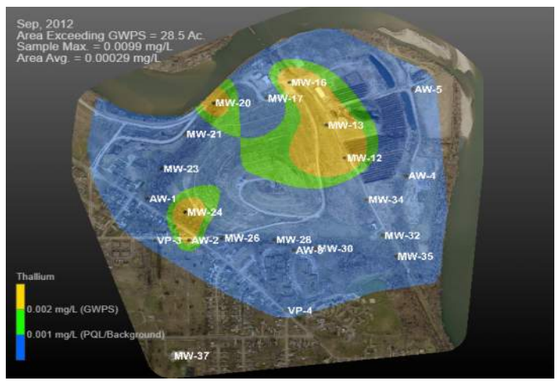
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 2D COBALT INTERPOLATIONS FALL 2020 THROUGH FALL 2024 ANNUAL EVENTS DEEPER BEDROCK AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

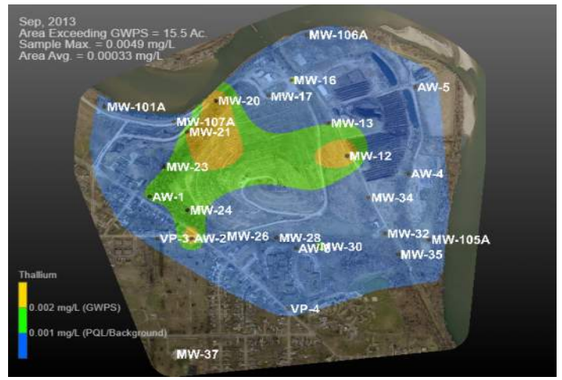
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx

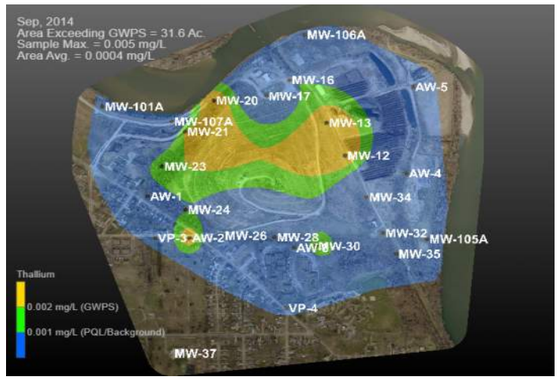


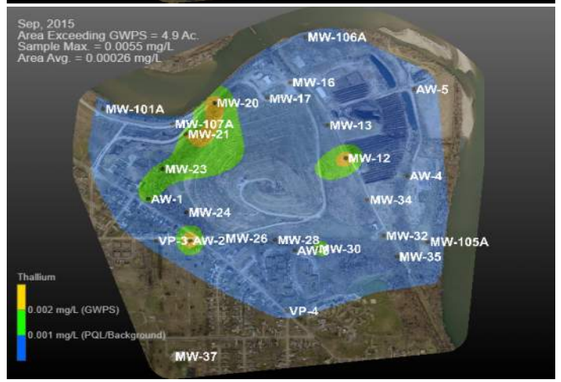


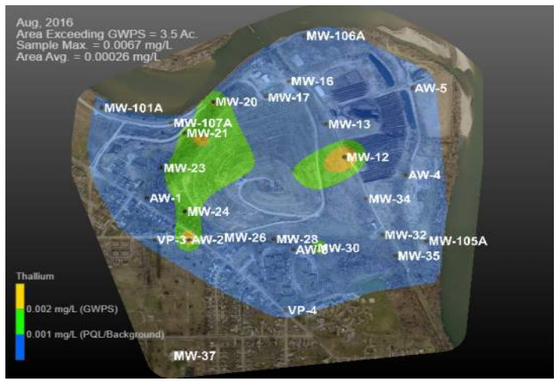


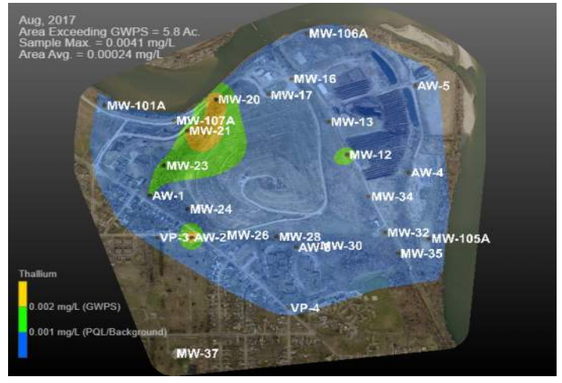


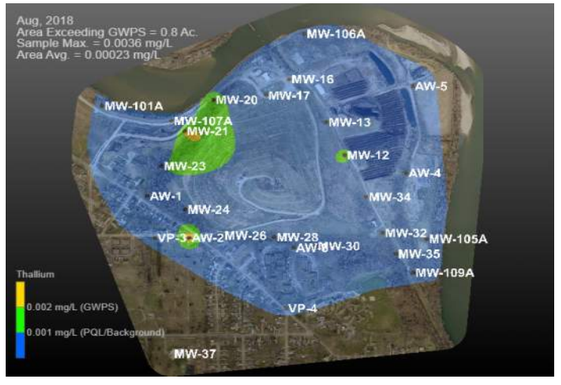


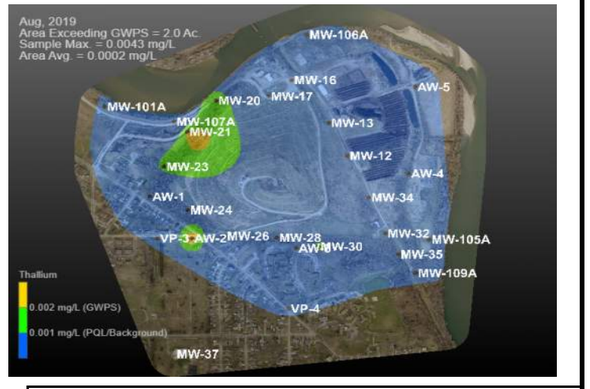












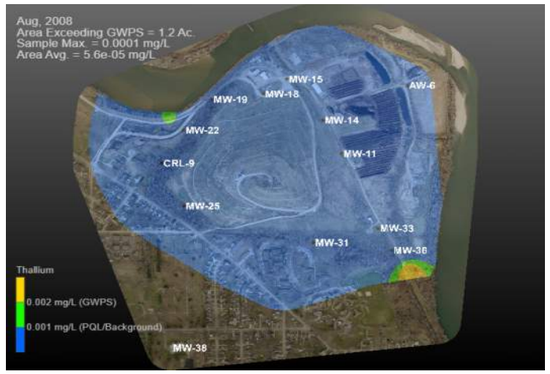
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

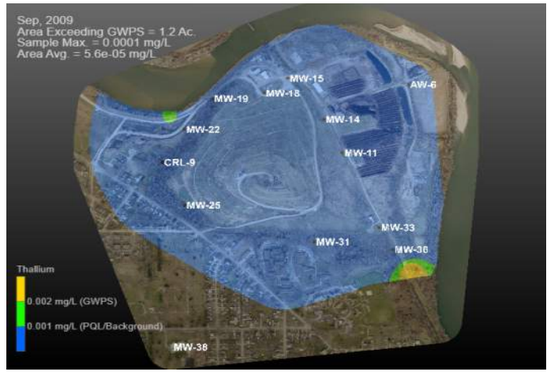
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

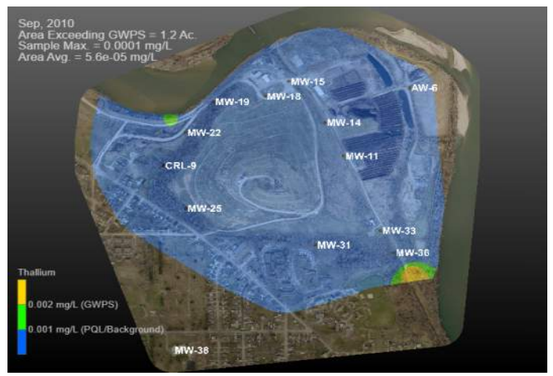
Foth

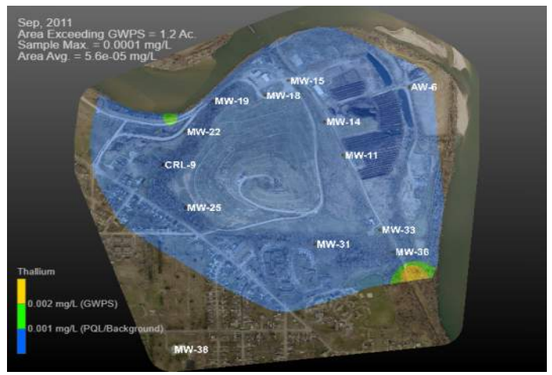
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 3A THALLIUM INTERPOLATIONS FALL 2008 THROUGH FALL 2019 ANNUAL EVENTS SHALLOW AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

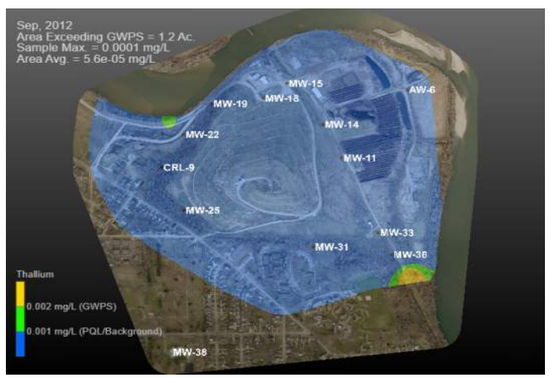
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx

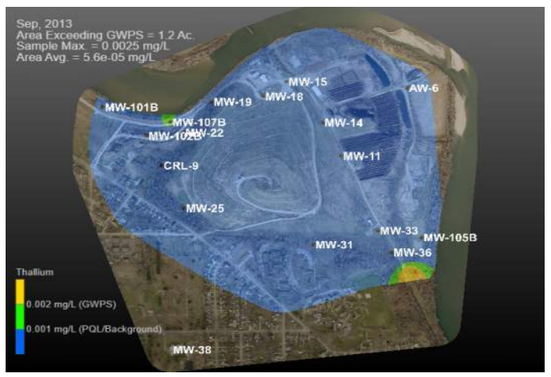


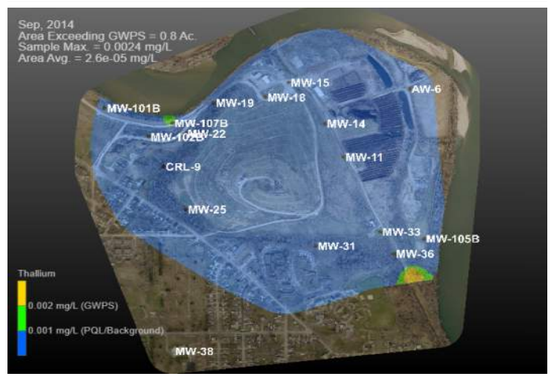


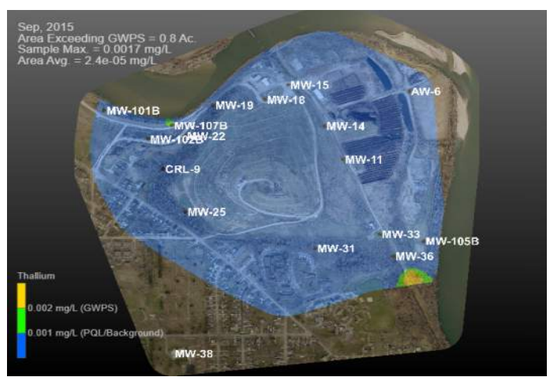


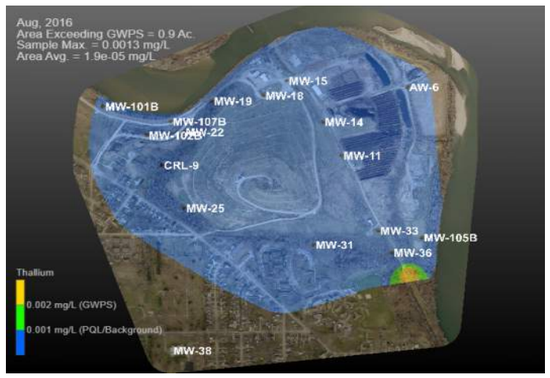


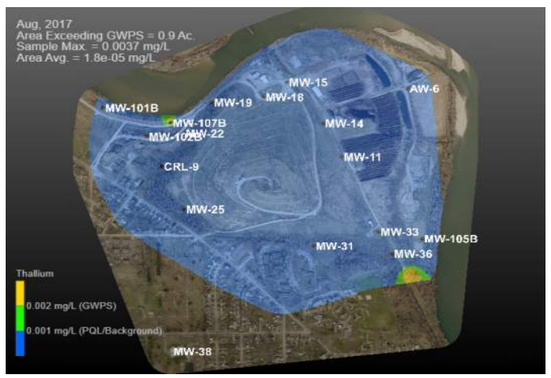


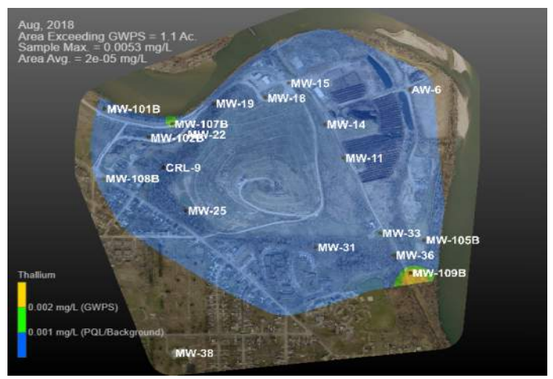


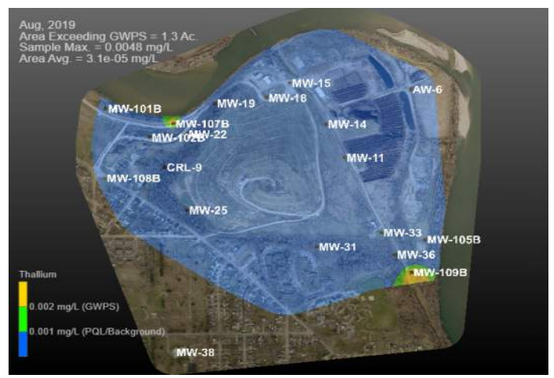












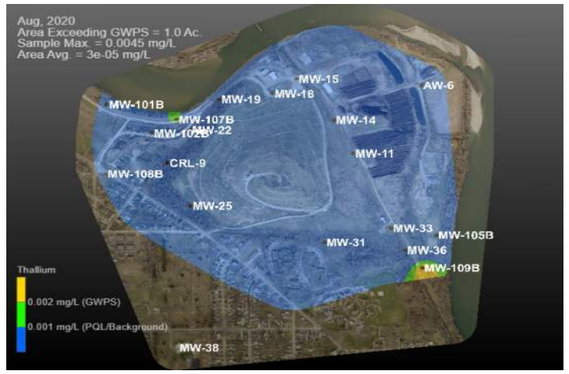
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

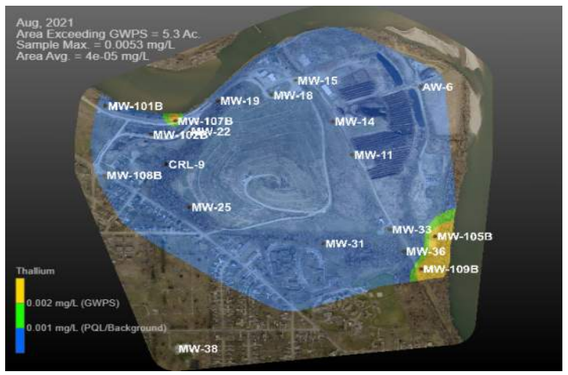
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

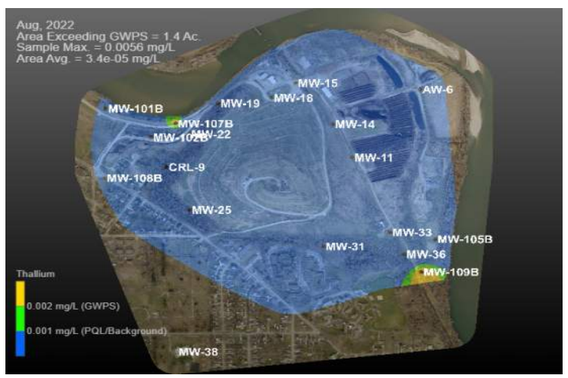
Foth

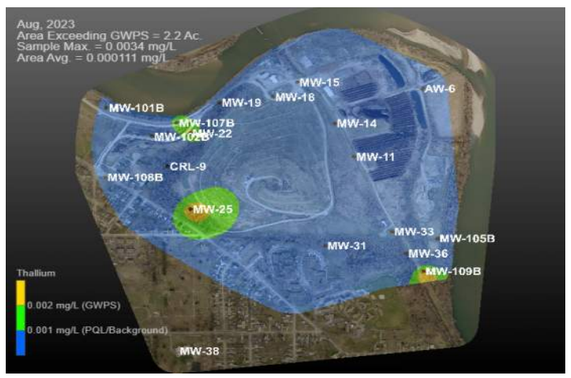
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 3C THALLIUM INTERPOLATIONS FALL 2008 THROUGH FALL 2019 ANNUAL EVENTS DEEPER BEDROCK AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

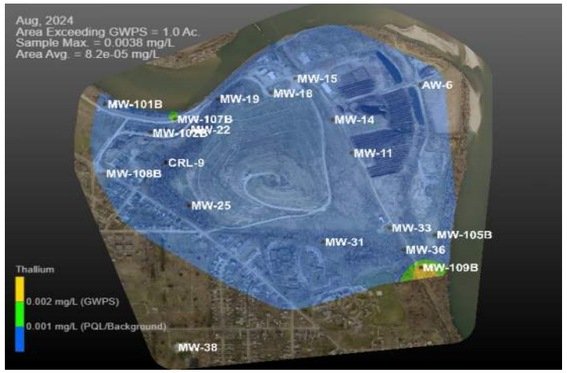
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx











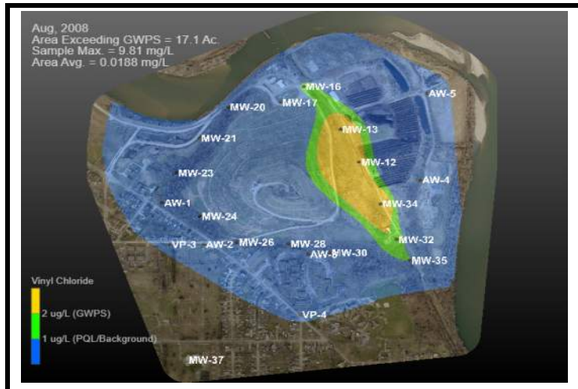
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

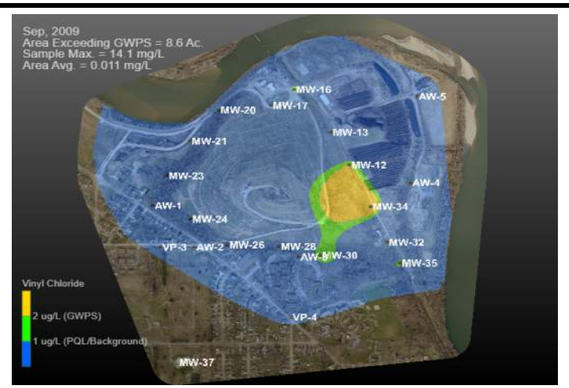
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

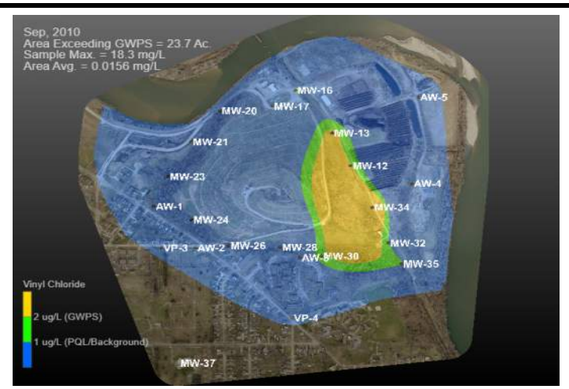
Foth

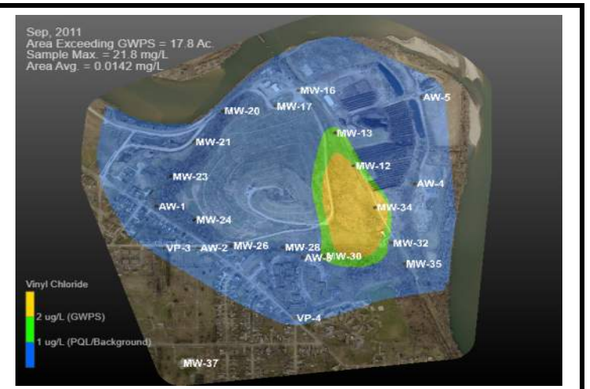
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 3D THALLIUM INTERPOLATIONS FALL 2020 THROUGH FALL 2024 ANNUAL EVENTS DEEPER BEDROCK AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

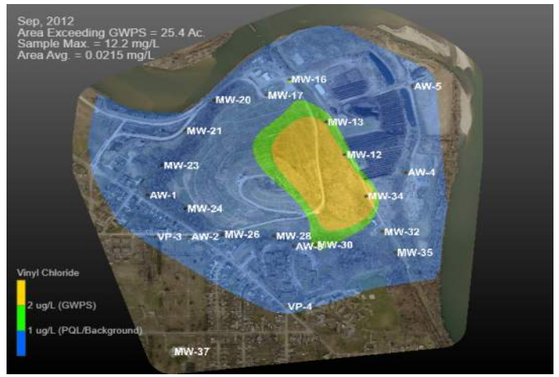
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx

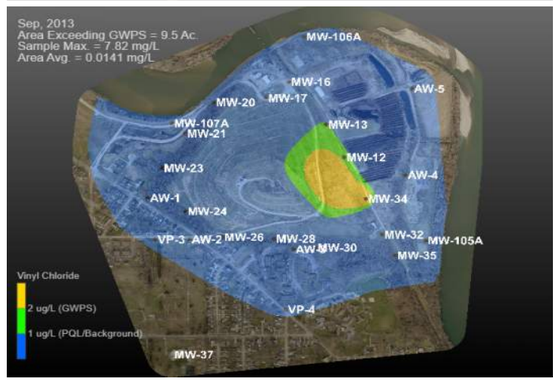


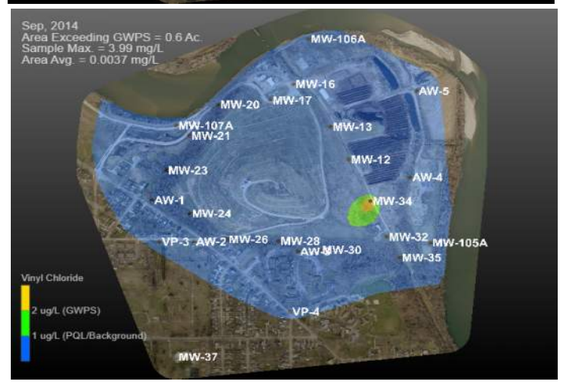


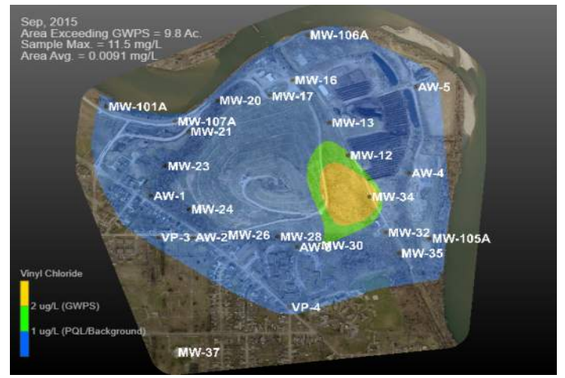


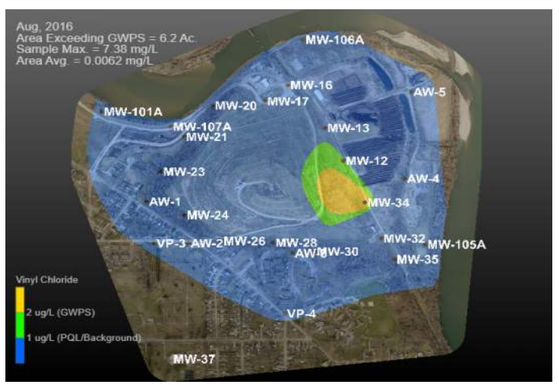


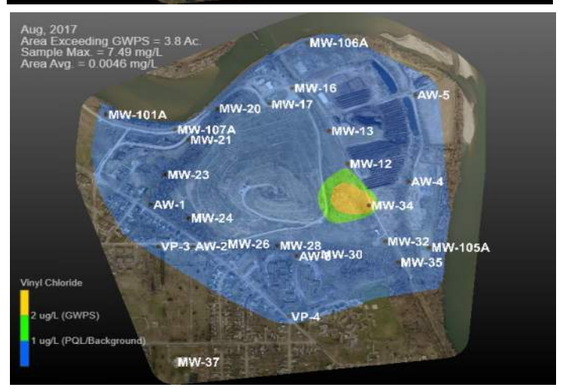


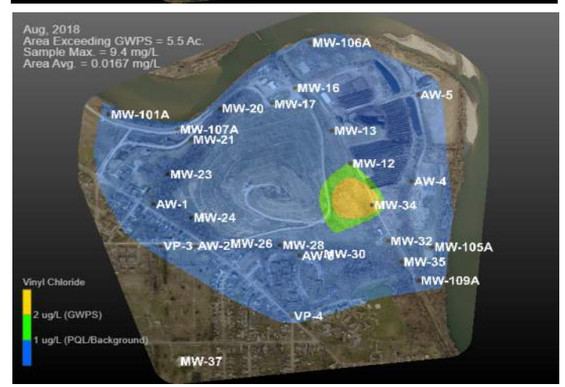


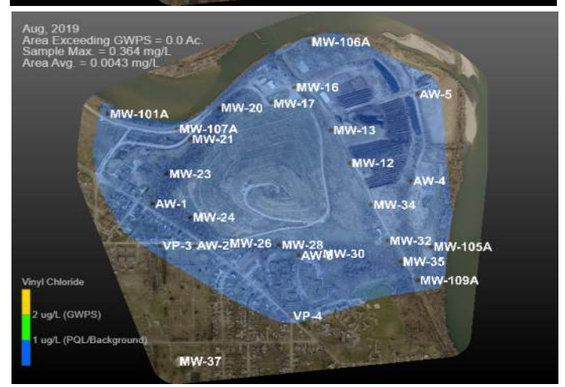












Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

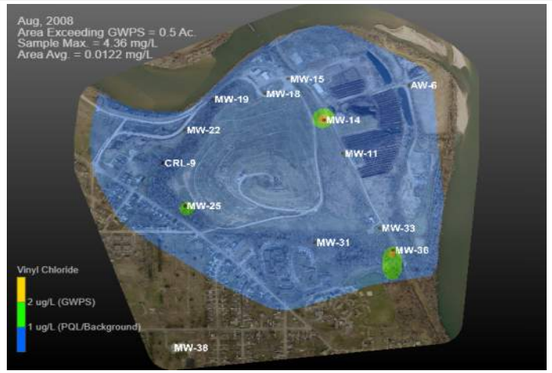
Foth

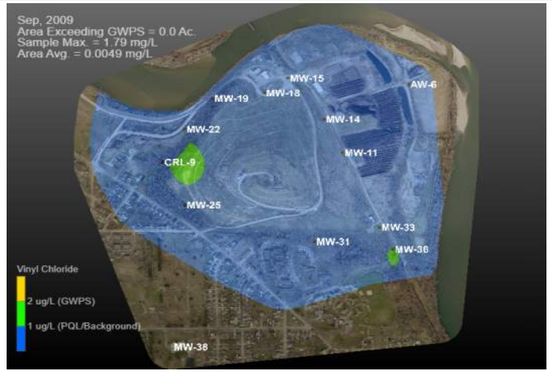
Cedar Rapids Linn County Solid Waste Agency Site 1

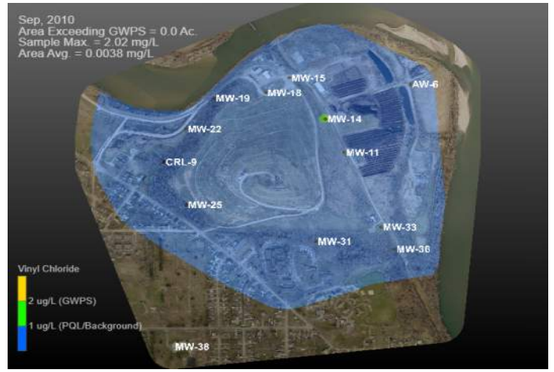
FIGURE 4A
VINYL CHLORIDE INTERPOLATIONS
FALL 2008 THROUGH FALL 2019 ANNUAL EVENTS
SHALLOW AQUIFER

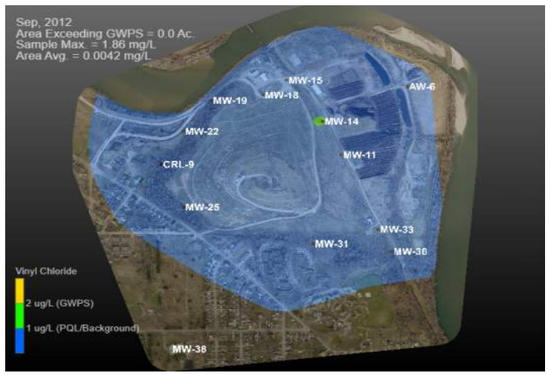
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

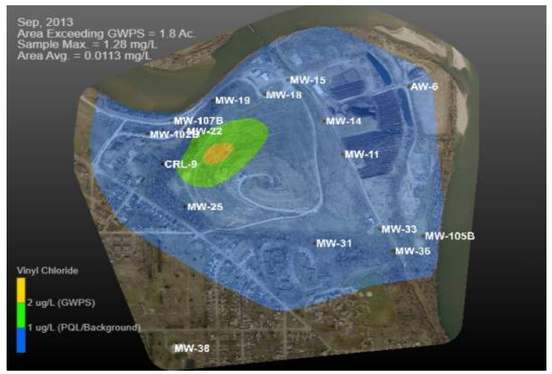
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx

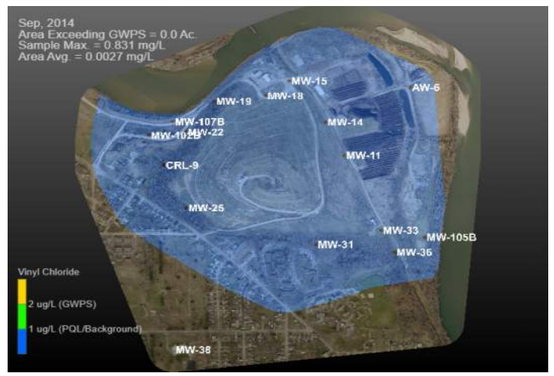


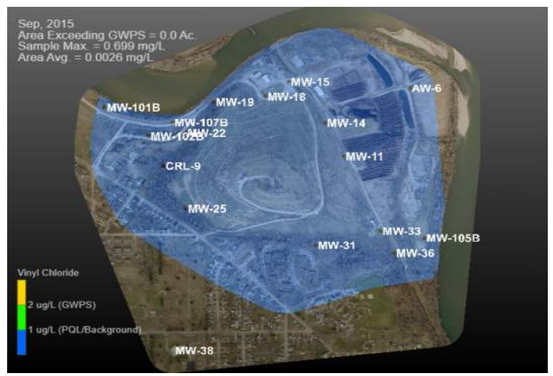


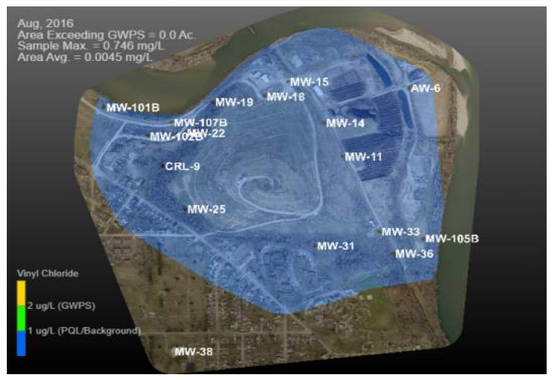


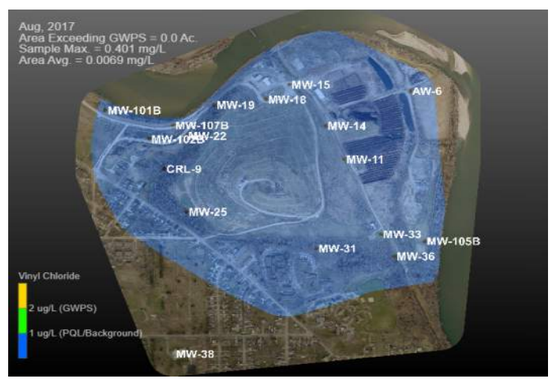


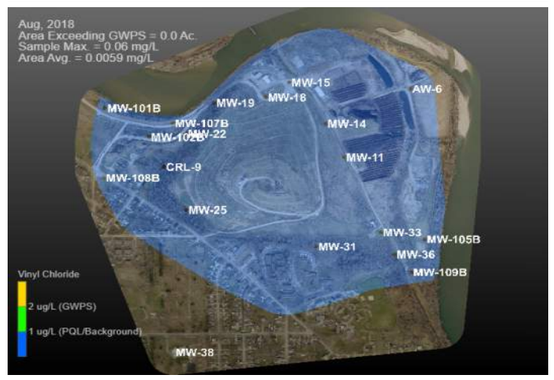


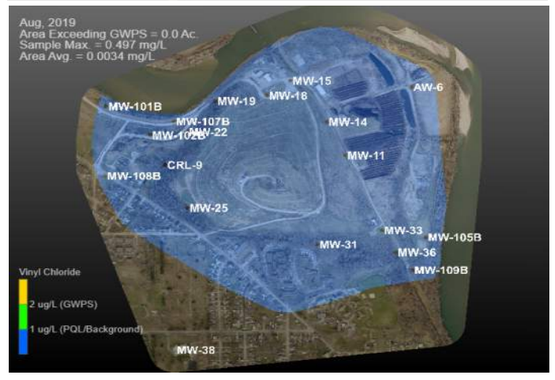












Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

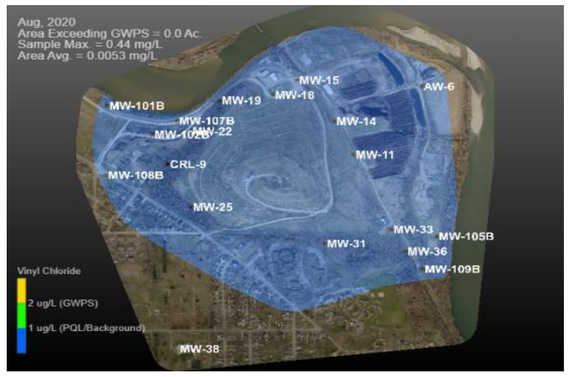
Foth

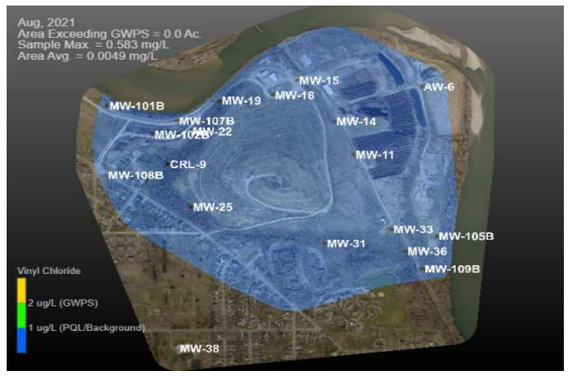
Cedar Rapids Linn County Solid Waste Agency Site 1

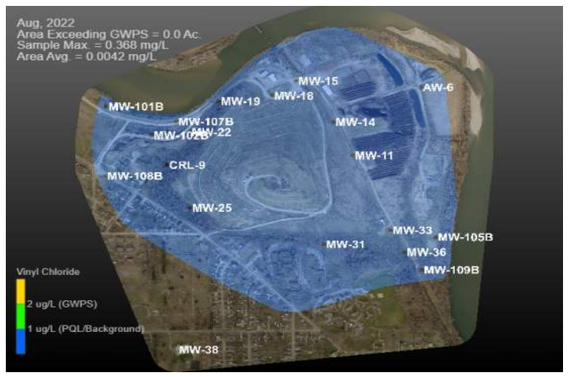
FIGURE 4C
VINYL CHLORIDE INTERPOLATIONS
FALL 2008 THROUGH FALL 2019 ANNUAL EVENTS
DEEPER BEDROCK AQUIFER

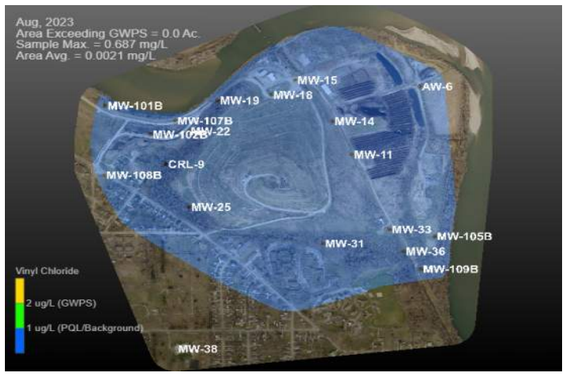
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

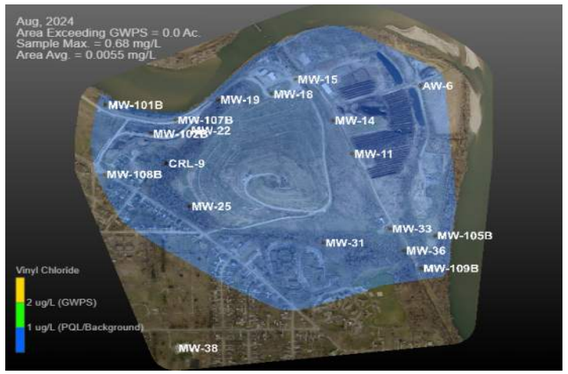
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx











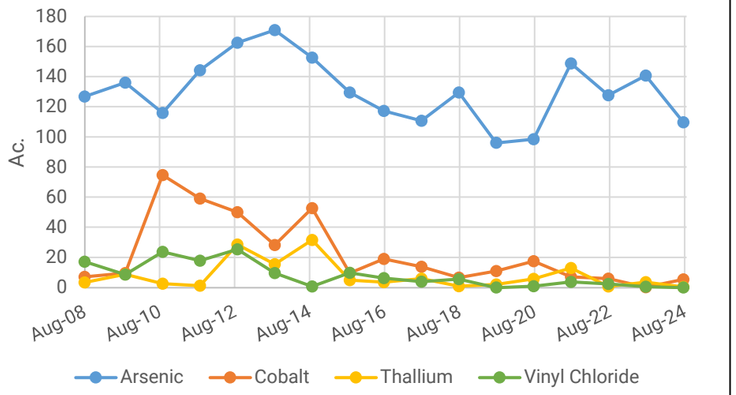
Notes:
Spatial interpolations were performed using geostatistical kriging with Earth Volumetric Studio (C Tech) v2024.3 software.
Data was normalized through logarithmic transformation.

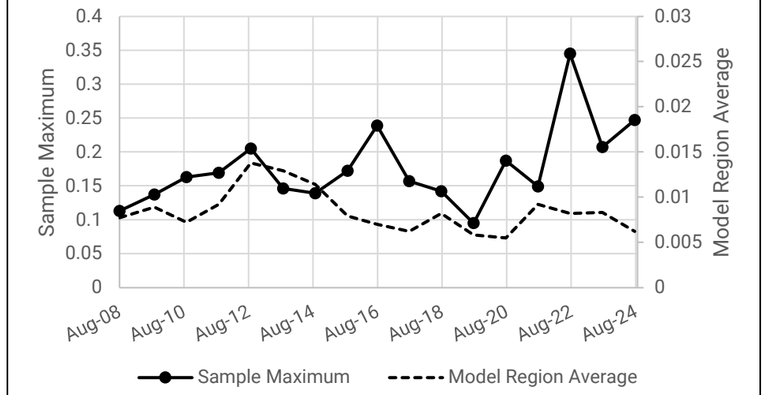
A slight anistropy setting of 1/1.2 in the north/northeasterly direction was utilized in the interpolations to match the groundwater flow direction.

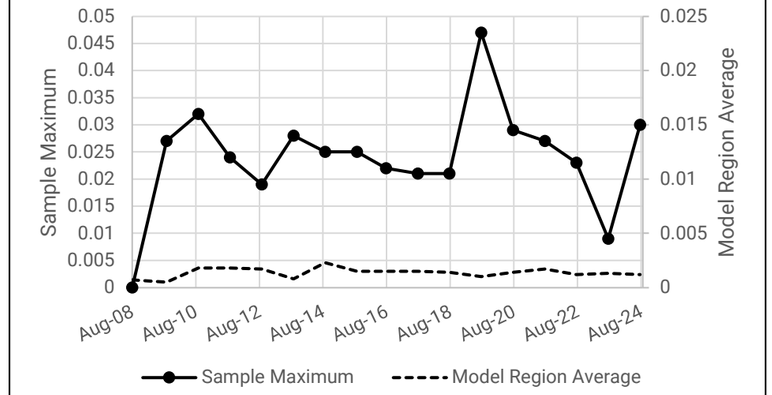
Foth

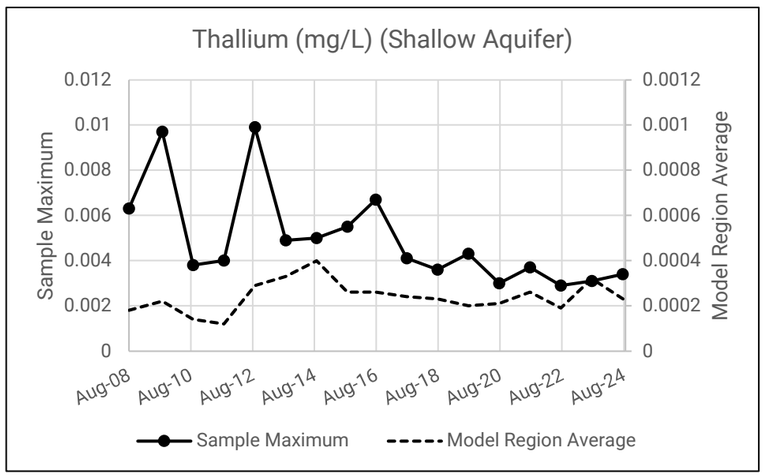
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 4D VINYL CHLORIDE INTERPOLATIONS FALL 2020 THROUGH FALL 2024 ANNUAL EVENTS DEEPER BEDROCK AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

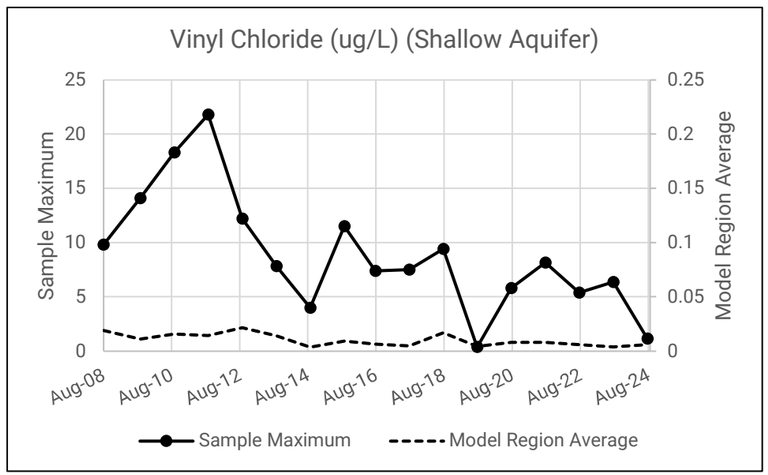
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\MeshResultFigures_2008thru2024.xlsx











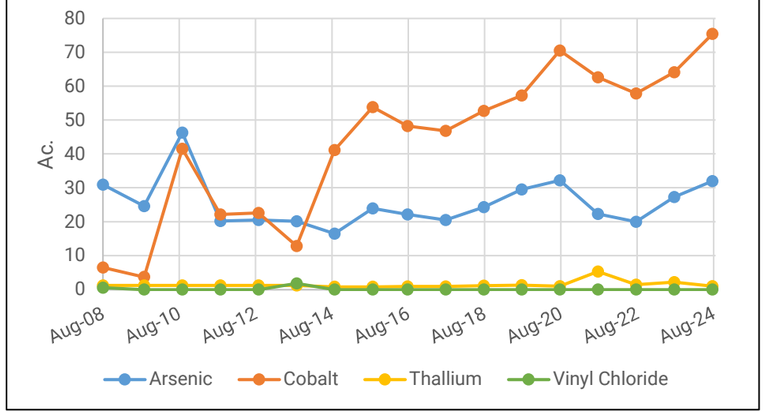
Notes:
GWPS Values are:
Arsenic: 0.01 mg/L
Cobalt: 0.008 mg/L (Background GWPS for Shallow Aquifer)
Thallium: 0.002 mg/L
Vinyl Chloride: 2 ug/L

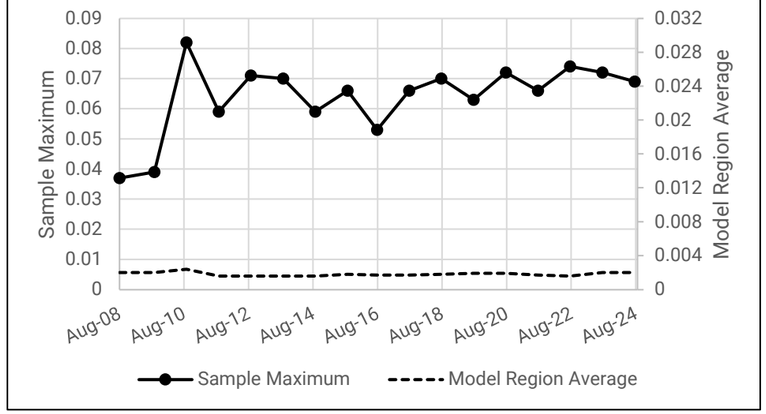
Two-dimensional geostatistical kriging with horizontal anisotropy was used to interpolate plume areas for each sample event.

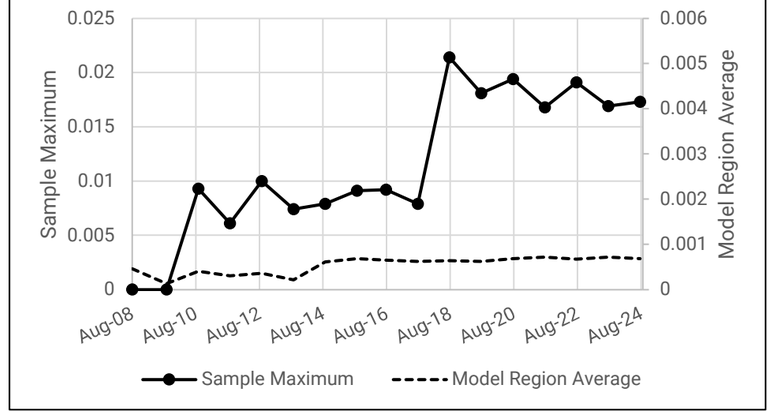
Foth

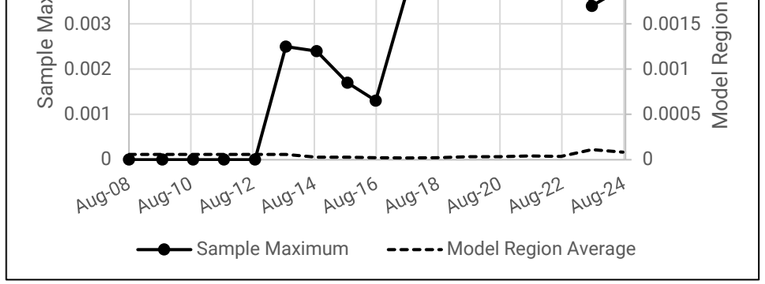
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 5 PLUME METRIC TRENDS ALL HISTORICAL DATA (2008-2024) SHALLOW AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

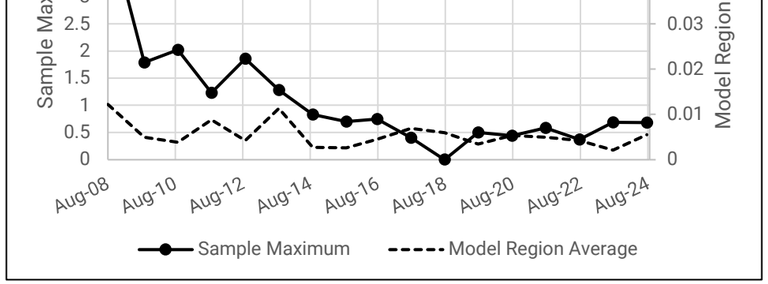
pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\PlumeTrendResults.xlsx











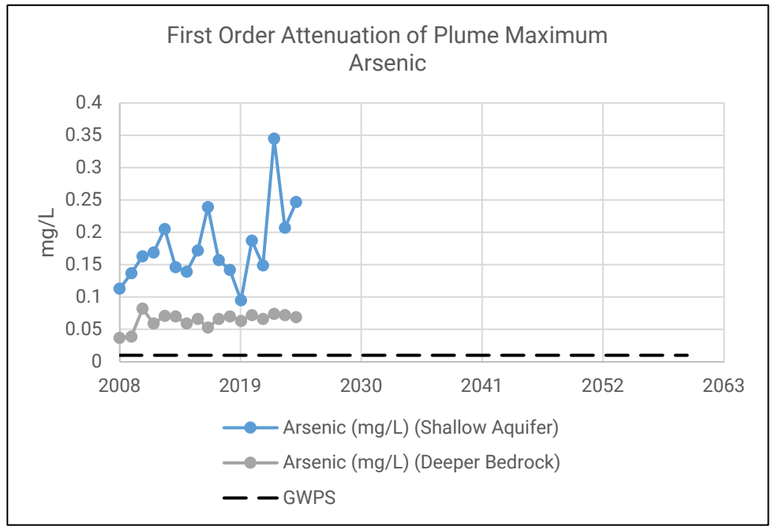
Notes:
GWPS Values are:
Arsenic: 0.01 mg/L
Cobalt: 0.0021 (Health-Based GWPS for Deeper Bedrock Aquifer)
Thallium: 0.002 mg/L
Vinyl Chloride: 2 ug/L

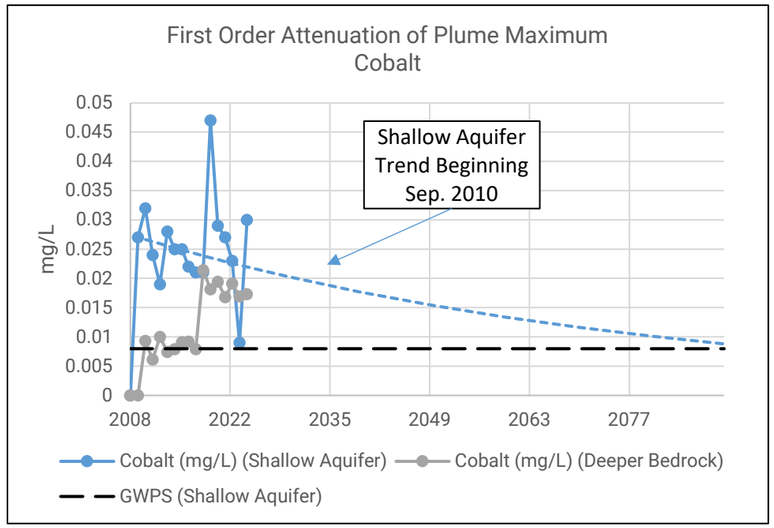
Two-dimensional geostatistical kriging with horizontal anisotropy was used to interpolate plume areas for each sample event.

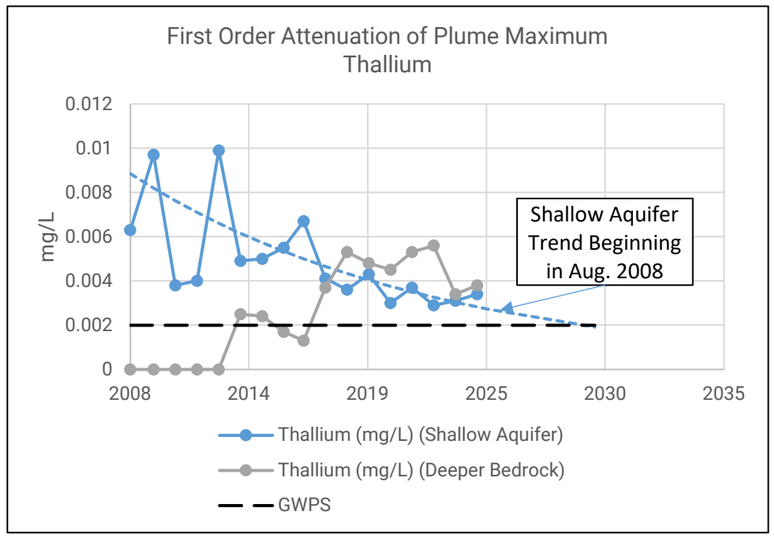
Foth

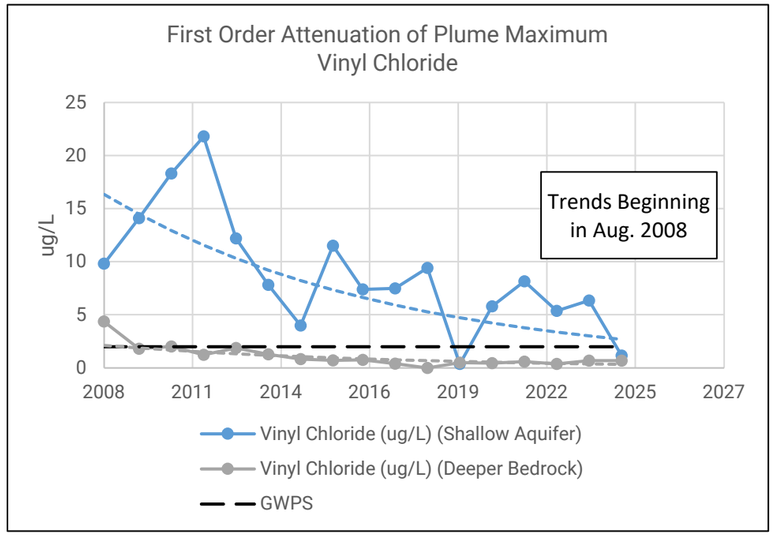
Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 6 PLUME METRIC TRENDS ALL HISTORICAL DATA (2008-2024) DEEPER BEDROCK AQUIFER		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\PlumeTrendResults.xlsx









Notes:
First order attenuation trends estimated through exponential regression analysis.

Foth

Cedar Rapids Linn County Solid Waste Agency Site 1		
FIGURE 7 FIRST ORDER ATTENUATION PLUME MAXIMUM ALL HISTORICAL DATA (2008-2024)		
Date: JAN 2024	Revision Date:	
Drawn By: SGL	Checked By: GMN	24C034.00

pw:\\Cedar Rapids Linn Co SWA IA\0024C034.00\12000 Design Data and Calculations\Site 1\Plume Stability Update\FirstOrderAttenuation_Max.xlsx

Attachment 3
Trend Analysis Results of Spatial Plume Metrics

Attachment 3
Trend Analysis Results of Spatial Plume Metrics - All Historical Data

	Area Exceeding GWPS (Ac.)	Model Region Average	Sample Maximum	Mass Center X-Coordinate	Mass Center Y-Coordinate
Arsenic (mg/L) (Shallow Aquifer)					
8/1/2008	126.8	0.0077	0.113	5424330	3454764
9/1/2009	136	0.0089	0.137	5424274	3454747
9/1/2010	115.8	0.0072	0.163	5424245	3454707
9/1/2011	144.2	0.0092	0.169	5424261	3454564
9/1/2012	162.4	0.0138	0.205	5424327	3454667
9/1/2013	170.9	0.0129	0.146	5424458	3454682
9/1/2014	152.6	0.0114	0.139	5424328	3454863
9/1/2015	129.4	0.0079	0.172	5424375	3454789
8/1/2016	117.2	0.007	0.239	5424294	3454874
8/1/2017	110.7	0.0062	0.157	5424284	3454927
8/1/2018	129.4	0.0082	0.142	5424381	3454905
8/1/2019	96	0.0058	0.095	5424228	3455057
8/1/2020	98.5	0.0055	0.187	5424306	3455065
8/1/2021	148.7	0.0092	0.149	5424298	3454924
8/1/2022	127.6	0.0082	0.345	5424397	3454926
8/1/2023	140.6	0.0083	0.207	5424370	3454854
8/1/2024	109.6	0.0062	0.247	5424348	3454886
Mann-Kendall Trend Results					
Sample Size	17	17	17	17	17
s-Statistic	-29	-33	50	26	68
p-Level	0.253	0.19	0.042	0.308	0.004
Trend Conclusion	No Trend	No Trend	Increasing	No Trend	Increasing
Arsenic (mg/L) (Deeper Bedrock Aquifer)					
8/1/2008	30.9	0.002	0.037	5424567	3454267
9/1/2009	24.6	0.002	0.039	5424593	3454203
9/1/2010	46.3	0.0024	0.082	5424468	3454148
9/1/2011	20.2	0.0016	0.059	5424585	3454170
9/1/2012	20.5	0.0016	0.071	5424603	3454145
9/1/2013	20.1	0.0016	0.07	5424594	3454164
9/1/2014	16.5	0.0016	0.059	5424604	3454291
9/1/2015	23.9	0.0018	0.066	5424592	3454303
8/1/2016	22.1	0.0017	0.053	5424580	3454252
8/1/2017	20.5	0.0017	0.066	5424592	3454251
8/1/2018	24.3	0.0018	0.07	5424632	3454171
8/1/2019	29.5	0.0019	0.063	5424781	3454299
8/1/2020	32.2	0.0019	0.072	5424818	3454225
8/1/2021	22.3	0.0017	0.066	5424742	3454254
8/1/2022	20	0.0016	0.074	5424690	3454185
8/1/2023	27.3	0.002	0.072	5424710	3454211
8/1/2024	32	0.002	0.069	5424805	3454230
Mann-Kendall Trend Results					
Sample Size	17	17	17	17	17
s-Statistic	11	13	44	80	16
p-Level	0.686	0.627	0.076	0	0.542
Trend Conclusion	No Trend	No Trend	No Trend	Increasing	No Trend

Attachment 3
Trend Analysis Results of Spatial Plume Metrics - All Historical Data

	Area Exceeding GWPS (Ac.)	Model Region Average	Sample Maximum	Mass Center X-Coordinate	Mass Center Y-Coordinate
Cobalt (mg/L) (Shallow Aquifer)					
8/1/2008	7	0.0007	<0.05	5425621	3454979
9/1/2009	9.6	0.0005	0.027	5425444	3454922
9/1/2010	74.7	0.0018	0.032	5425214	3454992
9/1/2011	59.1	0.0018	0.024	5425328	3455004
9/1/2012	49.9	0.0017	0.019	5424877	3454985
9/1/2013	28.2	0.0008	0.028	5424852	3454984
9/1/2014	52.6	0.0023	0.025	5424876	3455012
9/1/2015	9.5	0.0015	0.025	5425632	3455022
8/1/2016	19	0.0015	0.022	5425486	3454998
8/1/2017	13.8	0.0015	0.021	5425530	3455036
8/1/2018	6.6	0.0014	0.021	5425708	3455015
8/1/2019	10.9	0.001	0.047	5425546	3455081
8/1/2020	17.5	0.0014	0.029	5425569	3455086
8/1/2021	7	0.0017	0.027	5425122	3456346
8/1/2022	5.9	0.0012	0.023	5424971	3456334
8/1/2023	0.2	0.0013	0.009	5424904	3456449
8/1/2024	5.4	0.0012	0.03	5425275	3455160
Mann-Kendall Trend Results					
Sample Size	17	17	17	17	17
s-Statistic	-71	-19	7	-6	106
p-Level	0.002	0.465	0.808	0.84	0
Trend Conclusion	Decreasing	No Trend	No Trend	No Trend	Increasing
Cobalt (mg/L) (Deeper Bedrock)					
8/1/2008	6.5	0.00046	<0.05	5425967	3453174
9/1/2009	3.7	0.00013	<0.01	5426176	3453236
9/1/2010	41.5	0.0004	0.0093	5424858	3454546
9/1/2011	22.1	0.0003	0.0061	5425767	3454626
9/1/2012	22.6	0.00036	0.01	5424975	3454656
9/1/2013	12.8	0.00021	0.0074	5426153	3454610
9/1/2014	41.1	0.00061	0.0079	5424941	3454710
9/1/2015	53.8	0.00068	0.0091	5424783	3454777
8/1/2016	48.2	0.00065	0.0092	5424753	3454747
8/1/2017	46.8	0.00062	0.0079	5424792	3454762
8/1/2018	52.7	0.00064	0.0214	5424757	3454783
8/1/2019	57.2	0.00062	0.0181	5424804	3454783
8/1/2020	70.5	0.00068	0.0194	5424819	3454794
8/1/2021	62.6	0.00072	0.0168	5424714	3454793
8/1/2022	57.8	0.00067	0.0191	5424791	3454791
8/1/2023	64.1	0.00072	0.0169	5424724	3454795
8/1/2024	75.4	0.00068	0.0173	5424774	3454800
Mann-Kendall Trend Results					
Sample Size	17	17	17	17	17
s-Statistic	106	85	78	-78	120
p-Level	0	0	0	0	0
Trend Conclusion	Increasing	Increasing	Increasing	Decreasing	Increasing

Attachment 3
Trend Analysis Results of Spatial Plume Metrics - All Historical Data

	Area Exceeding GWPS (Ac.)	Model Region Average	Sample Maximum	Mass Center X-Coordinate	Mass Center Y-Coordinate
Thallium (mg/L) (Shallow Aquifer)					
8/1/2008	3.3	0.00018	0.0063	5424484	3454565
9/1/2009	8.7	0.00022	0.0097	5424751	3454649
9/1/2010	2.5	0.00014	0.0038	5423659	3454669
9/1/2011	1.2	0.00012	0.004	5423696	3454692
9/1/2012	28.5	0.00029	0.0099	5424484	3454856
9/1/2013	15.5	0.00033	0.0049	5424463	3454672
9/1/2014	31.6	0.0004	0.005	5424490	3454645
9/1/2015	4.9	0.00026	0.0055	5424447	3454638
8/1/2016	3.5	0.00026	0.0067	5424485	3454616
8/1/2017	5.8	0.00024	0.0041	5423689	3454652
8/1/2018	0.8	0.00023	0.0036	5423560	3454410
8/1/2019	2	0.0002	0.0043	5423597	3454409
8/1/2020	5.7	0.00021	0.003	5423663	3454650
8/1/2021	12.9	0.00026	0.0037	5424263	3454605
8/1/2022	0.6	0.00019	0.0029	5423552	3454422
8/1/2023	3.5	0.00032	0.0031	5424978	3454857
8/1/2024	0.4	0.00023	0.0034	5424437	3454265
Mann-Kendall Trend Results					
Sample Size	17	17	17	17	17
s-Statistic	-33	8	-68	-30	-40
p-Level	0.19	0.776	0.004	0.236	0.108
Trend Conclusion	No Trend	No Trend	Decreasing	No Trend	No Trend
Thallium (mg/L) (Deeper Bedrock)					
8/1/2008	1.2	0.000056	<0.00052	5424861	3454198
9/1/2009	1.2	0.000056	<0.00052	5424861	3454198
9/1/2010	1.2	0.000056	<0.00052	5424861	3454198
9/1/2011	1.2	0.000056	<0.00052	5424861	3454198
9/1/2012	1.2	0.000056	<0.00052	5424861	3454198
9/1/2013	1.2	0.000056	0.0025	5424861	3454198
9/1/2014	0.8	0.000026	0.0024	5424834	3454193
9/1/2015	0.8	0.000024	0.0017	5426236	3453203
8/1/2016	0.9	0.000019	0.0013	5426205	3453205
8/1/2017	0.9	0.000018	0.0037	5424798	3454222
8/1/2018	1.1	0.00002	0.0053	5424851	3454203
8/1/2019	1.3	0.000031	0.0048	5424829	3454227
8/1/2020	1	0.00003	0.0045	5424840	3454206
8/1/2021	5.3	0.00004	0.0053	5424904	3454240
8/1/2022	1.4	0.000034	0.0056	5424844	3454218
8/1/2023	2.2	0.000111	0.0034	5424880	3454151
8/1/2024	1	0.000082	0.0038	5426252	3453203
Mann-Kendall Trend Results					
Sample Size	17	17	17	17	17
s-Statistic	16	-9	85	5	13
p-Level	0.542	0.746	0	0.872	0.627
Trend Conclusion	No Trend	No Trend	Increasing	No Trend	No Trend

Note: MW-109B was not monitored prior to November of 2017. Thallium concentrations above the GWPS are assumed to be present historically at this location, resulting in a positive model area exceeding the GWPS during this time.

Attachment 3
Trend Analysis Results of Spatial Plume Metrics - All Historical Data

	Area Exceeding GWPS (Ac.)	Model Region Average	Sample Maximum	Mass Center X-Coordinate	Mass Center Y-Coordinate
Vinyl Chloride (ug/L) (Shallow Aquifer)					
8/1/2008	17.1	0.0188	9.81	5425343	3454627
9/1/2009	8.6	0.011	14.1	5425375	3454447
9/1/2010	23.7	0.0156	18.3	5425349	3454415
9/1/2011	17.8	0.0142	21.8	5425396	3454297
9/1/2012	25.4	0.0215	12.2	5425125	3454565
9/1/2013	9.5	0.0141	7.82	5425299	3454537
9/1/2014	0.6	0.0037	3.99	5425606	3454213
9/1/2015	9.8	0.0091	11.5	5425394	3454304
8/1/2016	6.2	0.0062	7.38	5425383	3454419
8/1/2017	3.8	0.0046	7.49	5425442	3454364
8/1/2018	5.5	0.0167	9.4	5425445	3454362
8/1/2019	0	0.0043	0.364		
8/1/2020	0.9	0.008	5.79	5425586	3454318
8/1/2021	3.7	0.0079	8.14	5425466	3454338
8/1/2022	2.4	0.0059	5.37	5425485	3454326
8/1/2023	0.5	0.0038	6.35	5425611	3454259
8/1/2024	0	0.0059	1.15		
Mann-Kendall Trend Results					
Sample Size	17	17	17	15	15
s-Statistic	-85	-65	-72	63	-45
p-Level	0	0.007	0.002	0.002	0.028
Trend Conclusion	Decreasing	Decreasing	Decreasing	Increasing	Decreasing
Vinyl Chloride (ug/L) (Deeper Bedrock)					
8/1/2008	0.5	0.0122	4.36	5425554	3454376
9/1/2009	0	0.0049	1.79		
9/1/2010	0	0.0038	2.02		
9/1/2011	0	0.0088	1.23		
9/1/2012	0	0.0042	1.86		
9/1/2013	1.8	0.0113	1.28	5423870	3454825
9/1/2014	0	0.0027	0.831		
9/1/2015	0	0.0026	0.699		
8/1/2016	0	0.0045	0.746		
8/1/2017	0	0.0069	0.401		
8/1/2018	0	0.0059	<0.6		
8/1/2019	0	0.0034	0.497		
8/1/2020	0	0.0053	0.44		
8/1/2021	0	0.0049	0.583		
8/1/2022	0	0.0042	0.368		
8/1/2023	0	0.0021	0.687		
8/1/2024	0	0.0055	0.68		
Mann-Kendall Trend Results					
Sample Size	17	17	17	2	2
s-Statistic	-21	-28	-84	-	-
p-Level	0.416	0.27	0	-	-
Trend Conclusion	No Trend	No Trend	Decreasing	-	-

Attachment 3
Trend Analysis Results of Spatial Plume Metrics - Recent Five Years

	Area Exceeding GWPS (Ac.)	Model Region Average	Sample Maximum	Mass Center X-Coordinate	Mass Center Y-Coordinate
Arsenic (mg/L) (Shallow Aquifer)					
8/1/2008	126.8	0.0077	0.113	5424330	3454764
9/1/2009	136	0.0089	0.137	5424274	3454747
9/1/2010	115.8	0.0072	0.163	5424245	3454707
9/1/2011	144.2	0.0092	0.169	5424261	3454564
9/1/2012	162.4	0.0138	0.205	5424327	3454667
9/1/2013	170.9	0.0129	0.146	5424458	3454682
9/1/2014	152.6	0.0114	0.139	5424328	3454863
9/1/2015	129.4	0.0079	0.172	5424375	3454789
8/1/2016	117.2	0.007	0.239	5424294	3454874
8/1/2017	110.7	0.0062	0.157	5424284	3454927
8/1/2018	129.4	0.0082	0.142	5424381	3454905
8/1/2019	96	0.0058	0.095	5424228	3455057
8/1/2020	98.5	0.0055	0.187	5424306	3455065
8/1/2021	148.7	0.0092	0.149	5424298	3454924
8/1/2022	127.6	0.0082	0.345	5424397	3454926
8/1/2023	140.6	0.0083	0.207	5424370	3454854
8/1/2024	109.6	0.0062	0.247	5424348	3454886
Mann-Kendall Trend Results					
Sample Size	5	5	5	5	5
s-Statistic	0	0	4	2	-6
p-Level	1	1	0.484	0.816	0.234
Trend Conclusion	No Trend	No Trend	No Trend	No Trend	No Trend
Arsenic (mg/L) (Deeper Bedrock Aquifer)					
8/1/2008	30.9	0.002	0.037	5424567	3454267
9/1/2009	24.6	0.002	0.039	5424593	3454203
9/1/2010	46.3	0.0024	0.082	5424468	3454148
9/1/2011	20.2	0.0016	0.059	5424585	3454170
9/1/2012	20.5	0.0016	0.071	5424603	3454145
9/1/2013	20.1	0.0016	0.07	5424594	3454164
9/1/2014	16.5	0.0016	0.059	5424604	3454291
9/1/2015	23.9	0.0018	0.066	5424592	3454303
8/1/2016	22.1	0.0017	0.053	5424580	3454252
8/1/2017	20.5	0.0017	0.066	5424592	3454251
8/1/2018	24.3	0.0018	0.07	5424632	3454171
8/1/2019	29.5	0.0019	0.063	5424781	3454299
8/1/2020	32.2	0.0019	0.072	5424818	3454225
8/1/2021	22.3	0.0017	0.066	5424742	3454254
8/1/2022	20	0.0016	0.074	5424690	3454185
8/1/2023	27.3	0.002	0.072	5424710	3454211
8/1/2024	32	0.002	0.069	5424805	3454230
Mann-Kendall Trend Results					
Sample Size	5	5	5	5	5
s-Statistic	0	3	-1	-2	0
p-Level	1	0.65	1	0.816	1
Trend Conclusion	No Trend	No Trend	No Trend	No Trend	No Trend

Attachment 3
Trend Analysis Results of Spatial Plume Metrics - Recent Five Years

	Area Exceeding GWPS (Ac.)	Model Region Average	Sample Maximum	Mass Center X-Coordinate	Mass Center Y-Coordinate
Cobalt (mg/L) (Shallow Aquifer)					
8/1/2008	7	0.0007	<0.05	5425621	3454979
9/1/2009	9.6	0.0005	0.027	5425444	3454922
9/1/2010	74.7	0.0018	0.032	5425214	3454992
9/1/2011	59.1	0.0018	0.024	5425328	3455004
9/1/2012	49.9	0.0017	0.019	5424877	3454985
9/1/2013	28.2	0.0008	0.028	5424852	3454984
9/1/2014	52.6	0.0023	0.025	5424876	3455012
9/1/2015	9.5	0.0015	0.025	5425632	3455022
8/1/2016	19	0.0015	0.022	5425486	3454998
8/1/2017	13.8	0.0015	0.021	5425530	3455036
8/1/2018	6.6	0.0014	0.021	5425708	3455015
8/1/2019	10.9	0.001	0.047	5425546	3455081
8/1/2020	17.5	0.0014	0.029	5425569	3455086
8/1/2021	7	0.0017	0.027	5425122	3456346
8/1/2022	5.9	0.0012	0.023	5424971	3456334
8/1/2023	0.2	0.0013	0.009	5424904	3456449
8/1/2024	5.4	0.0012	0.03	5425275	3455160
Mann-Kendall Trend Results					
Sample Size	5	5	5	5	5
s-Statistic	-8	-5	-2	-4	2
p-Level	0.084	0.359	0.816	0.484	0.816
Trend Conclusion	Decreasing	No Trend	No Trend	No Trend	No Trend
Cobalt (mg/L) (Deeper Bedrock)					
8/1/2008	6.5	0.00046	<0.05	5425967	3453174
9/1/2009	3.7	0.00013	<0.01	5426176	3453236
9/1/2010	41.5	0.0004	0.0093	5424858	3454546
9/1/2011	22.1	0.0003	0.0061	5425767	3454626
9/1/2012	22.6	0.00036	0.01	5424975	3454656
9/1/2013	12.8	0.00021	0.0074	5426153	3454610
9/1/2014	41.1	0.00061	0.0079	5424941	3454710
9/1/2015	53.8	0.00068	0.0091	5424783	3454777
8/1/2016	48.2	0.00065	0.0092	5424753	3454747
8/1/2017	46.8	0.00062	0.0079	5424792	3454762
8/1/2018	52.7	0.00064	0.0214	5424757	3454783
8/1/2019	57.2	0.00062	0.0181	5424804	3454783
8/1/2020	70.5	0.00068	0.0194	5424819	3454794
8/1/2021	62.6	0.00072	0.0168	5424714	3454793
8/1/2022	57.8	0.00067	0.0191	5424791	3454791
8/1/2023	64.1	0.00072	0.0169	5424724	3454795
8/1/2024	75.4	0.00068	0.0173	5424774	3454800
Mann-Kendall Trend Results					
Sample Size	5	5	5	5	5
s-Statistic	2	0	-2	-2	4
p-Level	0.816	1	0.816	0.816	0.484
Trend Conclusion	No Trend	No Trend	No Trend	No Trend	No Trend

Attachment 3
Trend Analysis Results of Spatial Plume Metrics - Recent Five Years

	Area Exceeding GWPS (Ac.)	Model Region Average	Sample Maximum	Mass Center X-Coordinate	Mass Center Y-Coordinate
Thallium (mg/L) (Shallow Aquifer)					
8/1/2008	3.3	0.00018	0.0063	5424484	3454565
9/1/2009	8.7	0.00022	0.0097	5424751	3454649
9/1/2010	2.5	0.00014	0.0038	5423659	3454669
9/1/2011	1.2	0.00012	0.004	5423696	3454692
9/1/2012	28.5	0.00029	0.0099	5424484	3454856
9/1/2013	15.5	0.00033	0.0049	5424463	3454672
9/1/2014	31.6	0.0004	0.005	5424490	3454645
9/1/2015	4.9	0.00026	0.0055	5424447	3454638
8/1/2016	3.5	0.00026	0.0067	5424485	3454616
8/1/2017	5.8	0.00024	0.0041	5423689	3454652
8/1/2018	0.8	0.00023	0.0036	5423560	3454410
8/1/2019	2	0.0002	0.0043	5423597	3454409
8/1/2020	5.7	0.00021	0.003	5423663	3454650
8/1/2021	12.9	0.00026	0.0037	5424263	3454605
8/1/2022	0.6	0.00019	0.0029	5423552	3454422
8/1/2023	3.5	0.00032	0.0031	5424978	3454857
8/1/2024	0.4	0.00023	0.0034	5424437	3454265
Mann-Kendall Trend Results					
Sample Size	5	5	5	5	5
s-Statistic	-6	2	2	4	-4
p-Level	0.234	0.816	0.816	0.484	0.484
Trend Conclusion	No Trend	No Trend	No Trend	No Trend	No Trend
Thallium (mg/L) (Deeper Bedrock)					
8/1/2008	1.2	0.000056	<0.00052	5424861	3454198
9/1/2009	1.2	0.000056	<0.00052	5424861	3454198
9/1/2010	1.2	0.000056	<0.00052	5424861	3454198
9/1/2011	1.2	0.000056	<0.00052	5424861	3454198
9/1/2012	1.2	0.000056	<0.00052	5424861	3454198
9/1/2013	1.2	0.000056	0.0025	5424861	3454198
9/1/2014	0.8	0.000026	0.0024	5424834	3454193
9/1/2015	0.8	0.000024	0.0017	5426236	3453203
8/1/2016	0.9	0.000019	0.0013	5426205	3453205
8/1/2017	0.9	0.000018	0.0037	5424798	3454222
8/1/2018	1.1	0.00002	0.0053	5424851	3454203
8/1/2019	1.3	0.000031	0.0048	5424829	3454227
8/1/2020	1	0.00003	0.0045	5424840	3454206
8/1/2021	5.3	0.00004	0.0053	5424904	3454240
8/1/2022	1.4	0.000034	0.0056	5424844	3454218
8/1/2023	2.2	0.000111	0.0034	5424880	3454151
8/1/2024	1	0.000082	0.0038	5426252	3453203
Mann-Kendall Trend Results					
Sample Size	5	5	5	5	5
s-Statistic	-1	6	-2	6	-6
p-Level	1	0.234	0.816	0.234	0.234
Trend Conclusion	No Trend	No Trend	No Trend	No Trend	No Trend

Note: MW-109B was not monitored prior to November of 2017. Thallium concentrations above the GWPS are assumed to be present historically at this location, resulting in a positive model area exceeding the GWPS during this time.

Attachment 3
Trend Analysis Results of Spatial Plume Metrics - Recent Five Years

	Area Exceeding GWPS (Ac.)	Model Region Average	Sample Maximum	Mass Center X-Coordinate	Mass Center Y-Coordinate
Vinyl Chloride (ug/L) (Shallow Aquifer)					
8/1/2008	17.1	0.0188	9.81	5425343	3454627
9/1/2009	8.6	0.011	14.1	5425375	3454447
9/1/2010	23.7	0.0156	18.3	5425349	3454415
9/1/2011	17.8	0.0142	21.8	5425396	3454297
9/1/2012	25.4	0.0215	12.2	5425125	3454565
9/1/2013	9.5	0.0141	7.82	5425299	3454537
9/1/2014	0.6	0.0037	3.99	5425606	3454213
9/1/2015	9.8	0.0091	11.5	5425394	3454304
8/1/2016	6.2	0.0062	7.38	5425383	3454419
8/1/2017	3.8	0.0046	7.49	5425442	3454364
8/1/2018	5.5	0.0167	9.4	5425445	3454362
8/1/2019	0	0.0043	0.364		
8/1/2020	0.9	0.008	5.79	5425586	3454318
8/1/2021	3.7	0.0079	8.14	5425466	3454338
8/1/2022	2.4	0.0059	5.37	5425485	3454326
8/1/2023	0.5	0.0038	6.35	5425611	3454259
8/1/2024	0	0.0059	1.15		
Mann-Kendall Trend Results					
Sample Size	5	5	5	4	4
s-Statistic	-6	-7	-4	2	-2
p-Level	0.234	0.159	0.484	0.75	0.75
Trend Conclusion	No Trend	No Trend	No Trend	No Trend	No Trend
Vinyl Chloride (ug/L) (Deeper Bedrock)					
8/1/2008	0.5	0.0122	4.36	5425554	3454376
9/1/2009	0	0.0049	1.79		
9/1/2010	0	0.0038	2.02		
9/1/2011	0	0.0088	1.23		
9/1/2012	0	0.0042	1.86		
9/1/2013	1.8	0.0113	1.28	5423870	3454825
9/1/2014	0	0.0027	0.831		
9/1/2015	0	0.0026	0.699		
8/1/2016	0	0.0045	0.746		
8/1/2017	0	0.0069	0.401		
8/1/2018	0	0.0059	<0.6		
8/1/2019	0	0.0034	0.497		
8/1/2020	0	0.0053	0.44		
8/1/2021	0	0.0049	0.583		
8/1/2022	0	0.0042	0.368		
8/1/2023	0	0.0021	0.687		
8/1/2024	0	0.0055	0.68		
Mann-Kendall Trend Results					
Sample Size	5	5	5	0	0
s-Statistic	0	-2	4		
p-Level	1	0.816	0.484		
Trend Conclusion	No Trend	No Trend	No Trend		

Appendix D
Leachate Sample Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gina Wilming
Foth Infrastructure & Environment, LLC
411 6th Avenue SE
Suite 400
Cedar Rapids, Iowa 52401

Generated 12/5/2024 3:15:00 PM

JOB DESCRIPTION

CRLCSWA 1 - Leachate

JOB NUMBER

310-295641-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
12/5/2024 3:15:00 PM

Authorized for release by
Conner Calhoun, Client Service Manager
Conner.Calhoun@et.eurofinsus.com
(319)277-2401

Table of Contents

Job ID: 310-295641-1 Eurofins Cedar Falls

Job Narrative
310-295641-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 11/20/2024 3:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

GC/MS VOA
Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: Site 1 Leachate_24_11 (310-295641-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) associated with batch 310-440651 recovered above the upper control limit for 4-Chloroaniline (37.1%D), 1,3-Dinitrobenzene (30.6%D) and Benzyl alcohol (22.7%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The method blank for preparation batch 310-440593 and analytical batch 310-440651 contained Benzyl alcohol above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270E: The continuing calibration verification (CCV) associated with batch 310-440695 recovered above the upper control limit for Methyl parathion (29.8%D), Diallate Peak 1 (21.0%D), Disulfoton (22.3%D), Phorate30.2%D), Kepone (50.7%D) and Dinoseb (68.1%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: The surrogate recovery for the blank associated with preparation batch 310-440671 and analytical batch 310-440964 was outside the upper control limits.

Method 8082A: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (310-295591-M-1-C MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8082A: The laboratory control sample (LCS) for preparation batch 310-440671 and analytical batch 310-441136 recovered outside control limits for the following analytes: PCB-1016 and PCB-1260. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8082A: The surrogate recovery for the LCS associated with preparation batch 310-440671 and analytical batch 310-441136 was outside the upper control limits.

Job ID: 310-295641-1 (Continued) Eurofins Cedar Falls

Method 8082A: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (310-295591-M-1-B MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: The surrogate recovery for the blank associated with preparation batch 310-440671 and 310-440836 and analytical batch 310-440963 was outside the upper control limits.

Method 8081B: Surrogate recovery for the following sample was outside control limits: (310-295641-J-1-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The continuing calibration verification (CCV) associated with batch 310-440963 recovered above the upper control limit for 4,4'-DDE, Endosulfan I, Endosulfan sulfate, Endrin and Heptachlor epoxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8081B: The laboratory control sample (LCS) for preparation batch 310-440671 and analytical batch 310-441135 recovered outside control limits for the following analytes: Aldrin, alpha-BHC, beta-BHC, gamma-BHC (Lindane), delta-BHC, Dieldrin, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Heptachlor, Heptachlor epoxide and Methoxychlor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8081B: The surrogate recovery for the LCS associated with preparation batch 310-440671 and analytical batch 310-441135 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method SM5210B_Calc: All the dilutions failed to deplete the method-required 2 mgO2/L for the following samples: Site 1 Leachate_24_11 (310-295641-1). Only a "less than" result could be calculated from the least dilute preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-295641-1
Project/Site: CRLCSWA 1 - Leachate

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-295641-1	Site 1 Leachate_24_11	Wastewater	11/20/24 09:30	11/20/24 15:00

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-295641-1
Project/Site: CRLCSWA 1 - Leachate

Client Sample ID: Site 1 Leachate_24_11
Lab Sample ID: 310-295641-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.266	J	1.00	0.220	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene	2.54		1.00	0.420	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	0.583	J	1.00	0.370	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	5.70		1.00	0.230	ug/L	1		8260D	Total/NA
2-Butanone (MEK)	10.7		10.0	2.10	ug/L	1		8260D	Total/NA
2-Chlorotoluene	0.376	J	1.00	0.280	ug/L	1		8260D	Total/NA
Acetone	3.79	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	2.68		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	3.30		1.00	0.400	ug/L	1		8260D	Total/NA
Ethylbenzene	2.11		1.00	0.310	ug/L	1		8260D	Total/NA
Isopropylbenzene	1.15		1.00	0.350	ug/L	1		8260D	Total/NA
Naphthalene	3.89	J	5.00	3.00	ug/L	1		8260D	Total/NA
sec-Butylbenzene	0.484	J	1.00	0.440	ug/L	1		8260D	Total/NA
Toluene	0.751	J	1.00	0.430	ug/L	1		8260D	Total/NA
Xylenes, Total	13.2		3.00	0.400	ug/L	1		8260D	Total/NA
3,3'-Dimethylbenzidine	3.36	J	10.0	1.50	ug/L	1		8270E	Total/NA
Arsenic	0.00336		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	1.00		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00775		0.00500	0.00120	mg/L	1		6020B	Total/NA
Iron	2.21		0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	165		2.00	0.600	mg/L	4		6020B	Total/NA
Nickel	0.0197		0.00500	0.00210	mg/L	1		6020B	Total/NA
Potassium	212		2.00	0.600	mg/L	4		6020B	Total/NA
Total Volatile Solids	850		250	250	mg/L	1		2540E	Total/NA
Fixed Solids	2990		250	250	mg/L	1		2540E	Total/NA
Ammonia	182		18.8	7.88	mg/L	37.5		350.1	Total/NA
Total Kjeldahl Nitrogen	191		10.0	5.70	mg/L	10		351.2	Total/NA
Total Phosphorus as P	1.34		0.100	0.0670	mg/L	1		365.1	Total/NA
Phosphorus as PO4	4.09		0.310	0.210	mg/L	1		365.1	Total/NA
Cyanide, Total	0.00358	J	0.0100	0.00350	mg/L	1		9012B	Total/NA
pH	6.98	HF	1.00	1.00	SU	1		9040C	Total/NA
Total Suspended Solids	6.00		5.00	3.70	mg/L	1		I-3765-85	Total/NA
Total Solids	3840		250	225	mg/L	1		SM 2540B	Total/NA
Total Dissolved Solids	3390		250	210	mg/L	1		SM 2540C	Total/NA
Chloride	706		40.0	28.0	mg/L	20		SM 4500 Cl- E	Total/NA
Chemical Oxygen Demand	280		25.0	24.0	mg/L	5		SM 5220D	Total/NA
Orthophosphate as P	0.502		0.100	0.0300	mg/L	1		365.1	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-295641-1
Project/Site: CRLCSWA 1 - Leachate

Client Sample ID: Site 1 Leachate_24_11
Lab Sample ID: 310-295641-1
Date Collected: 11/20/24 09:30
Matrix: Wastewater
Date Received: 11/20/24 15:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			11/22/24 05:02	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			11/22/24 05:02	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			11/22/24 05:02	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			11/22/24 05:02	1
1,1-Dichloroethane	**0.266**	**J**	1.00	0.220	ug/L			11/22/24 05:02	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			11/22/24 05:02	1
1,1-Dichloropropene	<0.430		1.00	0.430	ug/L			11/22/24 05:02	1
1,2,3-Trichlorobenzene	<0.900		5.00	0.900	ug/L			11/22/24 05:02	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			11/22/24 05:02	1
1,2,4-Trichlorobenzene	<0.750		5.00	0.750	ug/L			11/22/24 05:02	1
1,2,4-Trimethylbenzene	**2.54**		1.00	0.420	ug/L			11/22/24 05:02	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			11/22/24 05:02	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			11/22/24 05:02	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			11/22/24 05:02	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			11/22/24 05:02	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			11/22/24 05:02	1
1,3,5-Trimethylbenzene	**0.583**	**J**	1.00	0.370	ug/L			11/22/24 05:02	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			11/22/24 05:02	1
1,3-Dichloropropane	<0.400		1.00	0.400	ug/L			11/22/24 05:02	1
1,4-Dichlorobenzene	**5.70**		1.00	0.230	ug/L			11/22/24 05:02	1
2,2-Dichloropropane	<0.690		4.00	0.690	ug/L			11/22/24 05:02	1
2-Butanone (MEK)	**10.7**		10.0	2.10	ug/L			11/22/24 05:02	1
2-Chloroethyl vinyl ether	<1.70		2.00	1.70	ug/L			11/22/24 05:02	1
2-Chlorotoluene	**0.376**	**J**	1.00	0.280	ug/L			11/22/24 05:02	1
4-Chlorotoluene	<0.290		1.00	0.290	ug/L			11/22/24 05:02	1
Acetone	**3.79**	**J**	10.0	3.10	ug/L			11/22/24 05:02	1
Benzene	**2.68**		0.500	0.220	ug/L			11/22/24 05:02	1
Bromobenzene	<0.340		1.00	0.340	ug/L			11/22/24 05:02	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			11/22/24 05:02	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			11/22/24 05:02	1
Bromoform	<0.780		5.00	0.780	ug/L			11/22/24 05:02	1
Bromomethane	<1.10		4.00	1.10	ug/L			11/22/24 05:02	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			11/22/24 05:02	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			11/22/24 05:02	1
Chlorobenzene	**3.30**		1.00	0.400	ug/L			11/22/24 05:02	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			11/22/24 05:02	1
Chloroethane	<0.790		4.00	0.790	ug/L			11/22/24 05:02	1
Chloroform	<1.30		3.00	1.30	ug/L			11/22/24 05:02	1
Chloromethane	<0.610		3.00	0.610	ug/L			11/22/24 05:02	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			11/22/24 05:02	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			11/22/24 05:02	1
Dibromomethane	<0.330		1.00	0.330	ug/L			11/22/24 05:02	1
Dichlorodifluoromethane	<0.250		3.00	0.250	ug/L			11/22/24 05:02	1
Ethylbenzene	**2.11**		1.00	0.310	ug/L			11/22/24 05:02	1
Hexachlorobutadiene	<1.40		5.00	1.40	ug/L			11/22/24 05:02	1
Hexane	<0.780		1.00	0.780	ug/L			12/04/24 05:59	1
Isopropylbenzene	**1.15**		1.00	0.350	ug/L			11/22/24 05:02	1
Methyl tert-butyl ether	<0.490		1.00	0.490	ug/L			11/22/24 05:02	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			11/22/24 05:02	1

Client Sample ID: Site 1 Leachate_24_11
Lab Sample ID: 310-295641-1
Date Collected: 11/20/24 09:30
Matrix: Wastewater
Date Received: 11/20/24 15:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3.89**	**J**	5.00	3.00	ug/L			11/22/24 05:02	1
n-Butylbenzene	<0.440		1.00	0.440	ug/L			11/22/24 05:02	1
N-Propylbenzene	<0.390		1.00	0.390	ug/L			11/22/24 05:02	1
p-Isopropyltoluene	<0.330		1.00	0.330	ug/L			11/22/24 05:02	1
sec-Butylbenzene	**0.484**	**J**	1.00	0.440	ug/L			11/22/24 05:02	1
Styrene	<0.370		1.00	0.370	ug/L			11/22/24 05:02	1
tert-Butylbenzene	<0.390		1.00	0.390	ug/L			11/22/24 05:02	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			11/22/24 05:02	1
Toluene	**0.751**	**J**	1.00	0.430	ug/L			11/22/24 05:02	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			11/22/24 05:02	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			11/22/24 05:02	1
Trichloroethene	<0.430		1.00	0.430	ug/L			11/22/24 05:02	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			11/22/24 05:02	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			11/22/24 05:02	1
Xylenes, Total	**13.2**		3.00	0.400	ug/L			11/22/24 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*11/22/24 05:02*	*1*
Dibromofluoromethane (Surr)	*107*		*73 - 130*		*12/04/24 05:59*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/22/24 05:02*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/04/24 05:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/22/24 05:02*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/04/24 05:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.640		10.0	0.640	ug/L		11/22/24 06:52	11/22/24 17:52	1
Acenaphthylene	<0.720		10.0	0.720	ug/L		11/22/24 06:52	11/22/24 17:52	1
Acetophenone	<0.690		10.0	0.690	ug/L		11/22/24 06:52	11/22/24 17:52	1
2-Acetylaminofluorene	<2.70		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 14:48	1
4-Aminobiphenyl	<2.20		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 14:48	1
Anthracene	<0.870		10.0	0.870	ug/L		11/22/24 06:52	11/22/24 17:52	1
Benzo[a]anthracene	<0.850		10.0	0.850	ug/L		11/22/24 06:52	11/22/24 17:52	1
Benzo[a]pyrene	<8.10		10.0	8.10	ug/L		11/22/24 06:52	11/22/24 17:52	1
Benzo[b]fluoranthene	<4.90		10.0	4.90	ug/L		11/22/24 06:52	11/22/24 17:52	1
Benzo[g,h,i]perylene	<6.30		10.0	6.30	ug/L		11/22/24 06:52	11/22/24 17:52	1
Benzoic acid	<17.0		100	17.0	ug/L		11/22/24 06:52	11/22/24 17:52	1
Benzo[k]fluoranthene	<2.20		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 17:52	1
Benzyl alcohol	<1.30		10.0	1.30	ug/L		11/22/24 06:52	11/22/24 17:52	1
Bis(2-chloroethoxy)methane	<0.760		10.0	0.760	ug/L		11/22/24 06:52	11/22/24 17:52	1
Bis(2-chloroethyl)ether	<0.820		10.0	0.820	ug/L		11/22/24 06:52	11/22/24 17:52	1
bis (2-chloroisopropyl) ether	<0.540		10.0	0.540	ug/L		11/22/24 06:52	11/22/24 17:52	1
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		11/22/24 06:52	11/22/24 17:52	1
4-Bromophenyl phenyl ether	<0.700		10.0	0.700	ug/L		11/22/24 06:52	11/22/24 17:52	1
Butyl benzyl phthalate	<5.40		10.0	5.40	ug/L		11/22/24 06:52	11/22/24 17:52	1
4-Chloroaniline	<0.620		10.0	0.620	ug/L		11/22/24 06:52	11/22/24 17:52	1
Chlorobenzilate	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:48	1
4-Chloro-3-methylphenol	<0.840		10.0	0.840	ug/L		11/22/24 06:52	11/22/24 17:52	1
2-Chloronaphthalene	<0.640		10.0	0.640	ug/L		11/22/24 06:52	11/22/24 17:52	1
2-Chlorophenol	<0.540		10.0	0.540	ug/L		11/22/24 06:52	11/22/24 17:52	1

Client Sample ID: Site 1 Leachate_24_11
Lab Sample ID: 310-295641-1
Date Collected: 11/20/24 09:30
Matrix: Wastewater
Date Received: 11/20/24 15:00

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<0.690		10.0	0.690	ug/L		11/22/24 06:52	11/22/24 17:52	1
Chrysene	<0.870		10.0	0.870	ug/L		11/22/24 06:52	11/22/24 17:52	1
Diallate	<4.00		10.0	4.00	ug/L		11/22/24 06:52	11/22/24 14:48	1
Dibenzo(a,h)anthracene	<3.90		10.0	3.90	ug/L		11/22/24 06:52	11/22/24 17:52	1
Dibenzofuran	<0.740		10.0	0.740	ug/L		11/22/24 06:52	11/22/24 17:52	1
3,3'-Dichlorobenzidine	<1.40		10.0	1.40	ug/L		11/22/24 06:52	11/22/24 17:52	1
2,4-Dichlorophenol	<0.850		10.0	0.850	ug/L		11/22/24 06:52	11/22/24 17:52	1
2,6-Dichlorophenol	<0.690		10.0	0.690	ug/L		11/22/24 06:52	11/22/24 17:52	1
Diethyl phthalate	<1.70		10.0	1.70	ug/L		11/22/24 06:52	11/22/24 17:52	1
Dimethoate	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:48	1
7,12-Dimethylbenz(a)anthracene	<1.90		10.0	1.90	ug/L		11/22/24 06:52	11/22/24 14:48	1
3,3'-Dimethylbenzidine	**3.36**	**J**	10.0	1.50	ug/L		11/22/24 06:52	11/22/24 14:48	1
2,4-Dimethylphenol	<0.580		10.0	0.580	ug/L		11/22/24 06:52	11/22/24 17:52	1
Dimethyl phthalate	<1.00		10.0	1.00	ug/L		11/22/24 06:52	11/22/24 17:52	1
Di-n-butyl phthalate	<5.60		10.0	5.60	ug/L		11/22/24 06:52	11/22/24 17:52	1
1,3-Dinitrobenzene	<3.20		10.0	3.20	ug/L		11/22/24 06:52	11/22/24 17:52	1
4,6-Dinitro-2-methylphenol	<6.90		10.0	6.90	ug/L		11/22/24 06:52	11/22/24 17:52	1
2,4-Dinitrophenol	<13.0		20.0	13.0	ug/L		11/22/24 06:52	11/22/24 17:52	1
2,4-Dinitrotoluene	<6.40		10.0	6.40	ug/L		11/22/24 06:52	11/22/24 17:52	1
2,6-Dinitrotoluene	<0.520		10.0	0.520	ug/L		11/22/24 06:52	11/22/24 17:52	1
Di-n-octyl phthalate	<7.00		20.0	7.00	ug/L		11/22/24 06:52	11/22/24 17:52	1
Dinoseb	<2.40		10.0	2.40	ug/L		11/22/24 06:52	11/22/24 14:48	1
Diphenylamine	<6.00		10.0	6.00	ug/L		11/22/24 06:52	11/22/24 17:52	1
Disulfoton	<2.40		10.0	2.40	ug/L		11/22/24 06:52	11/22/24 14:48	1
Ethyl methanesulfonate	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:48	1
Ethyl Parathion	<2.20		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 14:48	1
Famphur	<3.80		10.0	3.80	ug/L		11/22/24 06:52	11/22/24 14:48	1
Fluoranthene	<1.70		10.0	1.70	ug/L		11/22/24 06:52	11/22/24 17:52	1
Fluorene	<0.790		10.0	0.790	ug/L		11/22/24 06:52	11/22/24 17:52	1
Hexachlorobenzene	<0.700		10.0	0.700	ug/L		11/22/24 06:52	11/22/24 17:52	1
Hexachlorobutadiene	<0.860		10.0	0.860	ug/L		11/22/24 06:52	11/22/24 17:52	1
Hexachlorocyclopentadiene	<5.10		10.0	5.10	ug/L		11/22/24 06:52	11/22/24 17:52	1
Hexachloroethane	<0.970		10.0	0.970	ug/L		11/22/24 06:52	11/22/24 17:52	1
Hexachloropropene	<2.60		10.0	2.60	ug/L		11/22/24 06:52	11/22/24 14:48	1
Indeno[1,2,3-cd]pyrene	<4.20		10.0	4.20	ug/L		11/22/24 06:52	11/22/24 17:52	1
Isodrin	<4.70		10.0	4.70	ug/L		11/22/24 06:52	11/22/24 14:48	1
Isophorone	<0.930		10.0	0.930	ug/L		11/22/24 06:52	11/22/24 17:52	1
Isosafrole	<2.30		10.0	2.30	ug/L		11/22/24 06:52	11/22/24 14:48	1
Kepone	<1.00		10.0	1.00	ug/L		11/22/24 06:52	11/22/24 14:48	1
Methapyrilene	<0.760		10.0	0.760	ug/L		11/22/24 06:52	11/22/24 14:48	1
3-Methylcholanthrene	<0.320		10.0	0.320	ug/L		11/22/24 06:52	11/22/24 14:48	1
Methyl methanesulfonate	<3.30		10.0	3.30	ug/L		11/22/24 06:52	11/22/24 14:48	1
2-Methylnaphthalene	<0.590		10.0	0.590	ug/L		11/22/24 06:52	11/22/24 17:52	1
Methyl parathion	<2.30		10.0	2.30	ug/L		11/22/24 06:52	11/22/24 14:48	1
2-Methylphenol	<0.650		10.0	0.650	ug/L		11/22/24 06:52	11/22/24 17:52	1
Methylphenol, 3 & 4	<0.700		10.0	0.700	ug/L		11/22/24 06:52	11/22/24 17:52	1
1,4-Naphthoquinone	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:48	1
1-Naphthylamine	<2.50		10.0	2.50	ug/L		11/22/24 06:52	11/22/24 14:48	1
2-Naphthylamine	<2.10		10.0	2.10	ug/L		11/22/24 06:52	11/22/24 14:48	1

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-295641-1
Project/Site: CRLCSWA 1 - Leachate

Client Sample ID: Site 1 Leachate_24_11
Lab Sample ID: 310-295641-1
Date Collected: 11/20/24 09:30
Matrix: Wastewater
Date Received: 11/20/24 15:00

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<5.90		10.0	5.90	ug/L		11/22/24 06:52	11/22/24 17:52	1
3-Nitroaniline	<2.70		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 17:52	1
4-Nitroaniline	<1.30		10.0	1.30	ug/L		11/22/24 06:52	11/22/24 17:52	1
Nitrobenzene	<0.800		10.0	0.800	ug/L		11/22/24 06:52	11/22/24 17:52	1
5-Nitro-o-toluidine	<2.80		10.0	2.80	ug/L		11/22/24 06:52	11/22/24 14:48	1
2-Nitrophenol	<6.80		10.0	6.80	ug/L		11/22/24 06:52	11/22/24 17:52	1
4-Nitrophenol	<7.60		10.0	7.60	ug/L		11/22/24 06:52	11/22/24 17:52	1
N-Nitrosodiethylamine	<3.40		10.0	3.40	ug/L		11/22/24 06:52	11/22/24 14:48	1
N-Nitrosodimethylamine	<0.720		10.0	0.720	ug/L		11/22/24 06:52	11/22/24 17:52	1
N-Nitrosodi-n-butylamine	<3.90		10.0	3.90	ug/L		11/22/24 06:52	11/22/24 14:48	1
N-Nitrosodi-n-propylamine	<0.920		10.0	0.920	ug/L		11/22/24 06:52	11/22/24 17:52	1
N-Nitrosodiphenylamine	<0.750		10.0	0.750	ug/L		11/22/24 06:52	11/22/24 17:52	1
N-Nitrosomethylethylamine	<4.90		10.0	4.90	ug/L		11/22/24 06:52	11/22/24 14:48	1
N-Nitrosopiperidine	<2.70		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 14:48	1
N-Nitrosopyrrolidine	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:48	1
o,o',o''-Triethylphosphorothioate	<3.20		10.0	3.20	ug/L		11/22/24 06:52	11/22/24 14:48	1
o-Toluidine	<2.90		10.0	2.90	ug/L		11/22/24 06:52	11/22/24 14:48	1
p-Dimethylamino azobenzene	<2.20		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 14:48	1
Pentachlorobenzene	<2.80		10.0	2.80	ug/L		11/22/24 06:52	11/22/24 14:48	1
Pentachloronitrobenzene	<5.80		10.0	5.80	ug/L		11/22/24 06:52	11/22/24 14:48	1
Pentachlorophenol	<9.60		10.0	9.60	ug/L		11/22/24 06:52	11/22/24 17:52	1
Phenacetin	<1.90		10.0	1.90	ug/L		11/22/24 06:52	11/22/24 14:48	1
Phenanthrene	<0.790		10.0	0.790	ug/L		11/22/24 06:52	11/22/24 17:52	1
Phenol	<1.10		10.0	1.10	ug/L		11/22/24 06:52	11/22/24 17:52	1
1,4-phenylenediamine	<1.90		10.0	1.90	ug/L		11/22/24 06:52	11/22/24 14:48	1
Phorate	<3.20		10.0	3.20	ug/L		11/22/24 06:52	11/22/24 14:48	1
Pronamide	<2.70		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 14:48	1
Pyrene	<0.790		10.0	0.790	ug/L		11/22/24 06:52	11/22/24 17:52	1
Pyridine	<1.60		10.0	1.60	ug/L		11/22/24 06:52	11/22/24 17:52	1
Safrole	<2.80		10.0	2.80	ug/L		11/22/24 06:52	11/22/24 14:48	1
1,2,4,5-Tetrachlorobenzene	<0.540		10.0	0.540	ug/L		11/22/24 06:52	11/22/24 17:52	1
2,3,4,6-Tetrachlorophenol	<5.30		10.0	5.30	ug/L		11/22/24 06:52	11/22/24 17:52	1
Thionazin	<3.50		10.0	3.50	ug/L		11/22/24 06:52	11/22/24 14:48	1
2,4,5-Trichlorophenol	<5.30		10.0	5.30	ug/L		11/22/24 06:52	11/22/24 17:52	1
2,4,6-Trichlorophenol	<5.00		10.0	5.00	ug/L		11/22/24 06:52	11/22/24 17:52	1
1,3,5-Trinitrobenzene	<2.30		10.0	2.30	ug/L		11/22/24 06:52	11/22/24 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 118*	*11/22/24 06:52*	*11/22/24 17:52*	*1*
2-Fluorophenol (Surr)	*67*		*25 - 110*	*11/22/24 06:52*	*11/22/24 17:52*	*1*
Nitrobenzene-d5 (Surr)	*85*		*45 - 129*	*11/22/24 06:52*	*11/22/24 17:52*	*1*
Phenol-d5 (Surr)	*58*		*21 - 110*	*11/22/24 06:52*	*11/22/24 17:52*	*1*
Terphenyl-d14 (Surr)	*56*		*12 - 144*	*11/22/24 06:52*	*11/22/24 17:52*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*27 - 136*	*11/22/24 06:52*	*11/22/24 17:52*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0205	*+	0.0933	0.0205	ug/L		11/22/24 11:33	11/26/24 16:14	1
alpha-BHC	<0.00933	F1 *+	0.0933	0.00933	ug/L		11/22/24 11:33	11/26/24 16:14	1
beta-BHC	<0.0392	*+	0.0933	0.0392	ug/L		11/22/24 11:33	11/26/24 16:14	1

Client Sample ID: Site 1 Leachate_24_11
Lab Sample ID: 310-295641-1
Date Collected: 11/20/24 09:30
Matrix: Wastewater
Date Received: 11/20/24 15:00

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	<0.00933	*+	0.0933	0.00933	ug/L		11/22/24 11:33	11/26/24 16:14	1
Chlordane (technical)	<0.364		1.87	0.364	ug/L		11/22/24 11:33	11/26/24 16:14	1
delta-BHC	<0.0299	*+	0.0933	0.0299	ug/L		11/22/24 11:33	11/26/24 16:14	1
Dieldrin	<0.0196	*+	0.0933	0.0196	ug/L		11/22/24 11:33	11/26/24 16:14	1
4,4'-DDD	<0.0233	*+	0.0933	0.0233	ug/L		11/22/24 11:33	11/26/24 16:14	1
4,4'-DDE	<0.0280	*+	0.0933	0.0280	ug/L		11/22/24 11:33	11/26/24 16:14	1
4,4'-DDT	<0.0187	*+	0.0933	0.0187	ug/L		11/22/24 11:33	11/26/24 16:14	1
Endosulfan I	<0.0261	*+	0.0933	0.0261	ug/L		11/22/24 11:33	11/26/24 16:14	1
Endosulfan II	<0.0243	*+	0.0933	0.0243	ug/L		11/22/24 11:33	11/26/24 16:14	1
Endosulfan sulfate	<0.0168	*+	0.0933	0.0168	ug/L		11/22/24 11:33	11/26/24 16:14	1
Endrin	<0.0261	*+	0.0933	0.0261	ug/L		11/22/24 11:33	11/26/24 16:14	1
Endrin aldehyde	<0.0252	*+	0.0933	0.0252	ug/L		11/22/24 11:33	11/26/24 16:14	1
Heptachlor	<0.0215	*+	0.0933	0.0215	ug/L		11/22/24 11:33	11/26/24 16:14	1
Heptachlor epoxide	<0.0299	*+	0.0933	0.0299	ug/L		11/22/24 11:33	11/26/24 16:14	1
Methoxychlor	<0.0299	*+	0.0933	0.0299	ug/L		11/22/24 11:33	11/26/24 16:14	1
Toxaphene	<0.933		1.87	0.933	ug/L		11/22/24 11:33	11/26/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*120*		*10 - 136*	*11/22/24 11:33*	*11/26/24 16:14*	*1*
Tetrachloro-m-xylene (Surr)	*129*		*10 - 130*	*11/22/24 11:33*	*11/26/24 16:14*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.765	*+	1.87	0.765	ug/L		11/22/24 11:33	11/26/24 16:14	1
PCB-1221	<0.765		1.87	0.765	ug/L		11/22/24 11:33	11/26/24 16:14	1
PCB-1232	<0.765		1.87	0.765	ug/L		11/22/24 11:33	11/26/24 16:14	1
PCB-1242	<0.765		1.87	0.765	ug/L		11/22/24 11:33	11/26/24 16:14	1
PCB-1248	<0.644		1.87	0.644	ug/L		11/22/24 11:33	11/26/24 16:14	1
PCB-1254	<0.644		1.87	0.644	ug/L		11/22/24 11:33	11/26/24 16:14	1
PCB-1260	<0.644	*+	1.87	0.644	ug/L		11/22/24 11:33	11/26/24 16:14	1
PCB-1268	<0.644		1.87	0.644	ug/L		11/22/24 11:33	11/26/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*120*		*10 - 136*	*11/22/24 11:33*	*11/26/24 16:14*	*1*
Tetrachloro-m-xylene (Surr)	*129*		*10 - 130*	*11/22/24 11:33*	*11/26/24 16:14*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.296		0.966	0.296	ug/L		11/25/24 11:58	11/26/24 20:32	1
Silvex (2,4,5-TP)	<0.0805		0.966	0.0805	ug/L		11/25/24 11:58	11/26/24 20:32	1
2,4,5-T	<0.139		0.966	0.139	ug/L		11/25/24 11:58	11/26/24 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*74*		*25 - 130*	*11/25/24 11:58*	*11/26/24 20:32*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00336**		0.00200	0.000530	mg/L		11/22/24 09:30	11/25/24 16:40	1
Barium	**1.00**		0.00200	0.000660	mg/L		11/22/24 09:30	11/25/24 16:40	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/22/24 09:30	11/25/24 16:40	1
Chromium	**0.00775**		0.00500	0.00120	mg/L		11/22/24 09:30	11/25/24 16:40	1

Client Sample ID: Site 1 Leachate_24_11
Lab Sample ID: 310-295641-1
Date Collected: 11/20/24 09:30
Matrix: Wastewater
Date Received: 11/20/24 15:00

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00180		0.00500	0.00180	mg/L		11/22/24 09:30	11/25/24 16:40	1
Iron	**2.21**		0.100	0.0360	mg/L		11/22/24 09:30	11/25/24 16:40	1
Lead	<0.000260		0.000500	0.000260	mg/L		11/22/24 09:30	11/25/24 16:40	1
Magnesium	**165**		2.00	0.600	mg/L		11/22/24 09:30	11/26/24 12:23	4
Nickel	**0.0197**		0.00500	0.00210	mg/L		11/22/24 09:30	11/25/24 16:40	1
Potassium	**212**		2.00	0.600	mg/L		11/22/24 09:30	11/26/24 12:23	4
Selenium	<0.00140		0.00500	0.00140	mg/L		11/22/24 09:30	11/25/24 16:40	1
Silver	<0.000500		0.00100	0.000500	mg/L		11/22/24 09:30	11/25/24 16:40	1
Zinc	<0.00970		0.0200	0.00970	mg/L		11/22/24 09:30	11/25/24 16:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/26/24 11:00	11/27/24 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**182**		18.8	7.88	mg/L		12/03/24 15:56	12/04/24 00:25	37.5
Total Kjeldahl Nitrogen (EPA 351.2)	**191**		10.0	5.70	mg/L		11/22/24 05:35	11/22/24 18:25	10
Nitrate as N (EPA 353.2)	<0.800		1.00	0.800	mg/L			12/04/24 19:26	1
Total Phosphorus as P (EPA 365.1)	**1.34**		0.100	0.0670	mg/L		11/25/24 16:03	11/25/24 23:00	1
Phosphorus as PO4 (EPA 365.1)	**4.09**		0.310	0.210	mg/L		11/25/24 16:03	11/25/24 23:00	1
Cyanide, Total (SW846 9012B)	**0.00358**	**J**	0.0100	0.00350	mg/L		11/22/24 10:49	11/22/24 23:22	1
Total Suspended Solids (USGS I-3765-85)	**6.00**		5.00	3.70	mg/L			11/22/24 14:23	1
Total Solids (SM 2540B)	**3840**		250	225	mg/L			11/21/24 10:46	1
Total Dissolved Solids (SM 2540C)	**3390**		250	210	mg/L			11/22/24 18:18	1
Chloride (SM 4500 Cl- E)	**706**		40.0	28.0	mg/L			11/26/24 15:49	20
Carbonaceous Biochemical Oxygen Demand (SM 5210B)	<12.0		12.0	12.0	mg/L			11/21/24 06:18	4
Chemical Oxygen Demand (SM 5220D)	**280**		25.0	24.0	mg/L			12/03/24 08:34	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids (SM 2540E)	**850**		250	250	mg/L			11/21/24 10:46	1
Fixed Solids (SM 2540E)	**2990**		250	250	mg/L			11/21/24 10:46	1
pH (SW846 9040C)	**6.98**	**HF**	1.00	1.00	SU			11/20/24 18:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P (EPA 365.1)	**0.502**		0.100	0.0300	mg/L			11/20/24 20:40	1
Chromium (VI) (SM 3500 CR B)	<0.0100	F1	0.0200	0.0100	mg/L			11/20/24 17:58	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Project/Site: CRLCSWA 1 - Leachate

Job ID: 310-295641-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-295641-1	Site 1 Leachate_24_11	103	98	99
310-295641-1	Site 1 Leachate_24_11	107	95	98

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-295611-B-1 MS	Matrix Spike	91	101	102
310-295611-B-1 MSD	Matrix Spike Duplicate	89	104	100
310-296206-G-3 MS	Matrix Spike	100	98	101
310-296206-G-3 MSD	Matrix Spike Duplicate	100	98	100
LCS 310-440505/6	Lab Control Sample	92	103	100
LCS 310-440505/7	Lab Control Sample	101	98	102
LCS 310-441406/6	Lab Control Sample	97	98	103
LCS 310-441406/7	Lab Control Sample	106	97	103
MB 310-440505/5	Method Blank	101	99	99
MB 310-441406/5	Method Blank	103	97	102

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(39-118)	(25-110)	(45-129)	(21-110)	(12-144)	(27-136)
310-295641-1	Site 1 Leachate_24_11	77	67	85	58	56	90

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-295641-1
Project/Site: CRLCSWA 1 - Leachate

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(39-118)	(25-110)	(45-129)	(21-110)	(12-144)	(27-136)
LCS 310-440593/2-A	Lab Control Sample	66	61	68	53	84	90
LCSD 310-440593/3-A	Lab Control Sample Dup	68	66	70	58	81	90
MB 310-440593/1-A	Method Blank	90	74	92	63	91	112

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Wastewater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-295641-1	Site 1 Leachate_24_11	120	129
310-295641-1 MS	Site 1 Leachate_24_11	133	135 S1+
310-295641-1 MSD	Site 1 Leachate_24_11	114	121

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
LCS 310-440671/5-A	Lab Control Sample	233 S1+	224 S1+
MB 310-440671/1-A	Method Blank	169 S1+	155 S1+
MB 310-440836/1-A	Method Blank	120	136 S1+

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Wastewater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-295641-1	Site 1 Leachate_24_11	120	129

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Surrogate Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-295641-1
Project/Site: CRLCSWA 1 - Leachate

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(10-136)	(10-130)								
310-295591-M-1-B MS	Matrix Spike	202 S1+	190 S1+								
310-295591-M-1-C MSD	Matrix Spike Duplicate	238 S1+	225 S1+								
LCS 310-440671/4-A	Lab Control Sample	230 S1+	216 S1+								
MB 310-440671/1-A	Method Blank	169 S1+	155 S1+								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Wastewater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA1									
Lab Sample ID	Client Sample ID	(25-130)									
310-295641-1	Site 1 Leachate_24_11	74									

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA1									
Lab Sample ID	Client Sample ID	(25-130)									
LB3 500-796532/1-C	Method Blank	64									
LCS 500-796930/2-A	Lab Control Sample	75									
LCSD 500-796930/3-A	Lab Control Sample Dup	79									
MB 500-796930/1-A	Method Blank	65									

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA1									
Lab Sample ID	Client Sample ID	(25-130)									
500-260071-H-1-D MS	Matrix Spike	71									

Surrogate Legend

DCPAA = DCAA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-440505/5
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			11/21/24 21:24	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			11/21/24 21:24	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			11/21/24 21:24	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			11/21/24 21:24	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			11/21/24 21:24	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			11/21/24 21:24	1
1,1-Dichloropropene	<0.430		1.00	0.430	ug/L			11/21/24 21:24	1
1,2,3-Trichlorobenzene	<0.900		5.00	0.900	ug/L			11/21/24 21:24	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			11/21/24 21:24	1
1,2,4-Trichlorobenzene	<0.750		5.00	0.750	ug/L			11/21/24 21:24	1
1,2,4-Trimethylbenzene	<0.420		1.00	0.420	ug/L			11/21/24 21:24	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			11/21/24 21:24	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			11/21/24 21:24	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			11/21/24 21:24	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			11/21/24 21:24	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			11/21/24 21:24	1
1,3,5-Trimethylbenzene	<0.370		1.00	0.370	ug/L			11/21/24 21:24	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			11/21/24 21:24	1
1,3-Dichloropropane	<0.400		1.00	0.400	ug/L			11/21/24 21:24	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			11/21/24 21:24	1
2,2-Dichloropropane	<0.690		4.00	0.690	ug/L			11/21/24 21:24	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			11/21/24 21:24	1
2-Chloroethyl vinyl ether	<1.70		2.00	1.70	ug/L			11/21/24 21:24	1
2-Chlorotoluene	<0.280		1.00	0.280	ug/L			11/21/24 21:24	1
4-Chlorotoluene	<0.290		1.00	0.290	ug/L			11/21/24 21:24	1
Acetone	<3.10		10.0	3.10	ug/L			11/21/24 21:24	1
Benzene	<0.220		0.500	0.220	ug/L			11/21/24 21:24	1
Bromobenzene	<0.340		1.00	0.340	ug/L			11/21/24 21:24	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			11/21/24 21:24	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			11/21/24 21:24	1
Bromoform	<0.780		5.00	0.780	ug/L			11/21/24 21:24	1
Bromomethane	<1.10		4.00	1.10	ug/L			11/21/24 21:24	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			11/21/24 21:24	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			11/21/24 21:24	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			11/21/24 21:24	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			11/21/24 21:24	1
Chloroethane	<0.790		4.00	0.790	ug/L			11/21/24 21:24	1
Chloroform	<1.30		3.00	1.30	ug/L			11/21/24 21:24	1
Chloromethane	<0.610		3.00	0.610	ug/L			11/21/24 21:24	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			11/21/24 21:24	1
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			11/21/24 21:24	1
Dibromomethane	<0.330		1.00	0.330	ug/L			11/21/24 21:24	1
Dichlorodifluoromethane	<0.250		3.00	0.250	ug/L			11/21/24 21:24	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			11/21/24 21:24	1
Hexachlorobutadiene	<1.40		5.00	1.40	ug/L			11/21/24 21:24	1
Isopropylbenzene	<0.350		1.00	0.350	ug/L			11/21/24 21:24	1
Methyl tert-butyl ether	<0.490		1.00	0.490	ug/L			11/21/24 21:24	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			11/21/24 21:24	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-440505/5
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<3.00		5.00	3.00	ug/L			11/21/24 21:24	1
n-Butylbenzene	<0.440		1.00	0.440	ug/L			11/21/24 21:24	1
N-Propylbenzene	<0.390		1.00	0.390	ug/L			11/21/24 21:24	1
p-Isopropyltoluene	<0.330		1.00	0.330	ug/L			11/21/24 21:24	1
sec-Butylbenzene	<0.440		1.00	0.440	ug/L			11/21/24 21:24	1
Styrene	<0.370		1.00	0.370	ug/L			11/21/24 21:24	1
tert-Butylbenzene	<0.390		1.00	0.390	ug/L			11/21/24 21:24	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			11/21/24 21:24	1
Toluene	<0.430		1.00	0.430	ug/L			11/21/24 21:24	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			11/21/24 21:24	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			11/21/24 21:24	1
Trichloroethene	<0.430		1.00	0.430	ug/L			11/21/24 21:24	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			11/21/24 21:24	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			11/21/24 21:24	1
Xylenes, Total	<0.400		3.00	0.400	ug/L			11/21/24 21:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*11/21/24 21:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/21/24 21:24*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/21/24 21:24*	*1*

Lab Sample ID: LCS 310-440505/6
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.27		ug/L		96	71 - 120
1,1,1-Trichloroethane	20.0	18.85		ug/L		94	73 - 129
1,1,2,2-Tetrachloroethane	20.0	20.39		ug/L		102	68 - 124
1,1,2-Trichloroethane	20.0	20.62		ug/L		103	73 - 123
1,1-Dichloroethane	20.0	20.18		ug/L		101	70 - 127
1,1-Dichloroethene	20.0	19.36		ug/L		97	63 - 132
1,1-Dichloropropene	20.0	21.15		ug/L		106	69 - 132
1,2,3-Trichlorobenzene	20.0	22.39		ug/L		112	50 - 150
1,2,3-Trichloropropane	20.0	20.30		ug/L		102	65 - 127
1,2,4-Trichlorobenzene	20.0	21.84		ug/L		109	68 - 124
1,2,4-Trimethylbenzene	20.0	20.44		ug/L		102	73 - 124
1,2-Dibromo-3-Chloropropane	20.0	23.18		ug/L		116	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.48		ug/L		97	75 - 125
1,2-Dichlorobenzene	20.0	20.34		ug/L		102	74 - 120
1,2-Dichloroethane	20.0	18.57		ug/L		93	71 - 125
1,2-Dichloropropane	20.0	21.68		ug/L		108	73 - 124
1,3,5-Trimethylbenzene	20.0	20.27		ug/L		101	73 - 123
1,3-Dichlorobenzene	20.0	18.77		ug/L		94	72 - 120
1,3-Dichloropropane	20.0	20.59		ug/L		103	72 - 125
1,4-Dichlorobenzene	20.0	20.12		ug/L		101	72 - 120
2,2-Dichloropropane	20.0	19.42		ug/L		97	50 - 150
2-Butanone (MEK)	40.0	44.52		ug/L		111	50 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-440505/6
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloroethyl vinyl ether	20.0	19.49		ug/L		97	48 - 150
2-Chlorotoluene	20.0	20.38		ug/L		102	73 - 121
4-Chlorotoluene	20.0	20.23		ug/L		101	72 - 121
Acetone	40.0	39.70		ug/L		99	50 - 150
Benzene	20.0	20.07		ug/L		100	72 - 124
Bromobenzene	20.0	18.40		ug/L		92	72 - 120
Bromochloromethane	20.0	17.78		ug/L		89	73 - 130
Bromodichloromethane	20.0	17.73		ug/L		89	74 - 122
Bromoform	20.0	16.48		ug/L		82	61 - 122
Carbon disulfide	20.0	19.69		ug/L		98	59 - 135
Carbon tetrachloride	20.0	17.31		ug/L		87	67 - 132
Chlorobenzene	20.0	19.04		ug/L		95	76 - 120
Chlorodibromomethane	20.0	17.09		ug/L		85	71 - 121
Chloroform	20.0	19.08		ug/L		95	72 - 125
cis-1,2-Dichloroethene	20.0	18.63		ug/L		93	74 - 123
cis-1,3-Dichloropropene	20.0	20.61		ug/L		103	71 - 125
Dibromomethane	20.0	18.49		ug/L		92	74 - 125
Ethylbenzene	20.0	20.24		ug/L		101	74 - 122
Hexachlorobutadiene	20.0	20.27		ug/L		101	50 - 150
Hexane	20.0	22.41		ug/L		112	45 - 150
Isopropylbenzene	20.0	20.61		ug/L		103	73 - 125
Methyl tert-butyl ether	20.0	20.34		ug/L		102	68 - 130
Methylene Chloride	20.0	19.18		ug/L		96	50 - 150
Naphthalene	20.0	21.54		ug/L		108	50 - 150
n-Butylbenzene	20.0	20.73		ug/L		104	67 - 131
N-Propylbenzene	20.0	20.73		ug/L		104	72 - 126
p-Isopropyltoluene	20.0	22.76		ug/L		114	70 - 127
sec-Butylbenzene	20.0	19.40		ug/L		97	70 - 127
Styrene	20.0	20.57		ug/L		103	74 - 121
tert-Butylbenzene	20.0	20.21		ug/L		101	72 - 124
Tetrachloroethene	20.0	17.96		ug/L		90	71 - 130
Toluene	20.0	18.88		ug/L		94	74 - 123
trans-1,2-Dichloroethene	20.0	18.93		ug/L		95	70 - 126
trans-1,3-Dichloropropene	20.0	19.11		ug/L		96	69 - 123
Trichloroethene	20.0	19.84		ug/L		99	72 - 126
Xylenes, Total	40.0	40.80		ug/L		102	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*92*		*73 - 130*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCS 310-440505/7
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.78		ug/L		74	23 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-440505/7
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			20.0	19.10		ug/L		95	54 - 136		
Chloromethane			20.0	21.42		ug/L		107	38 - 150		
Dichlorodifluoromethane			20.0	15.42		ug/L		77	39 - 150		
Trichlorofluoromethane			20.0	16.14		ug/L		81	54 - 149		
Vinyl chloride			20.0	20.93		ug/L		105	56 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: 310-295611-B-1 MS
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.380		25.0	20.09		ug/L		80	55 - 130
1,1,1-Trichloroethane	<0.190		25.0	18.60		ug/L		74	52 - 130
1,1,2,2-Tetrachloroethane	<0.470		25.0	21.37		ug/L		85	54 - 130
1,1,2-Trichloroethane	<0.450		25.0	20.70		ug/L		83	58 - 130
1,1-Dichloroethane	<0.220		25.0	20.65		ug/L		83	49 - 130
1,1-Dichloroethene	<0.560		25.0	19.46		ug/L		78	37 - 132
1,1-Dichloropropene	<0.430		25.0	21.15		ug/L		85	50 - 132
1,2,3-Trichlorobenzene	<0.900		25.0	22.26		ug/L		89	38 - 150
1,2,3-Trichloropropane	<0.590		25.0	20.30		ug/L		81	49 - 130
1,2,4-Trichlorobenzene	<0.750		25.0	22.10		ug/L		88	55 - 130
1,2,4-Trimethylbenzene	<0.420		25.0	20.26		ug/L		81	49 - 130
1,2-Dibromo-3-Chloropropane	<1.20		25.0	23.03		ug/L		92	38 - 150
1,2-Dibromoethane (EDB)	<0.340		25.0	19.64		ug/L		79	60 - 130
1,2-Dichlorobenzene	<0.370		25.0	20.31		ug/L		81	59 - 130
1,2-Dichloroethane	<0.390		25.0	18.75		ug/L		75	51 - 130
1,2-Dichloropropane	<0.270		25.0	21.60		ug/L		86	57 - 130
1,3,5-Trimethylbenzene	<0.370		25.0	19.77		ug/L		79	50 - 130
1,3-Dichlorobenzene	<0.300		25.0	18.46		ug/L		74	57 - 130
1,3-Dichloropropane	<0.400		25.0	21.49		ug/L		86	56 - 130
1,4-Dichlorobenzene	<0.230		25.0	19.95		ug/L		80	57 - 130
2,2-Dichloropropane	<0.690		25.0	17.62		ug/L		70	25 - 150
2-Butanone (MEK)	<2.10		50.0	44.12		ug/L		88	38 - 150
2-Chloroethyl vinyl ether	<1.70	F1	25.0	<1.70	F1	ug/L		0	22 - 150
2-Chlorotoluene	<0.280		25.0	19.98		ug/L		80	55 - 130
4-Chlorotoluene	<0.290		25.0	20.03		ug/L		80	50 - 130
Acetone	<3.10		50.0	41.36		ug/L		83	31 - 150
Benzene	<0.220		25.0	20.67		ug/L		83	46 - 130
Bromobenzene	<0.340		25.0	18.44		ug/L		74	57 - 130
Bromochloromethane	<0.540		25.0	18.42		ug/L		74	57 - 130
Bromodichloromethane	<0.390		25.0	18.73		ug/L		75	57 - 130
Bromoform	<0.780		25.0	17.24		ug/L		69	44 - 130
Carbon disulfide	<0.450		25.0	20.26		ug/L		81	38 - 135

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-295611-B-1 MS
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	7.51		25.0	23.94		ug/L		66	45 - 132
Chlorobenzene	<0.400		25.0	19.41		ug/L		78	59 - 130
Chlorodibromomethane	<0.750		25.0	18.44		ug/L		74	54 - 130
Chloroform	<1.30		25.0	19.95		ug/L		80	51 - 130
cis-1,2-Dichloroethene	<0.210		25.0	19.94		ug/L		80	45 - 130
cis-1,3-Dichloropropene	<0.250		25.0	20.57		ug/L		82	53 - 130
Dibromomethane	<0.330		25.0	18.96		ug/L		76	59 - 130
Ethylbenzene	<0.310		25.0	19.97		ug/L		80	45 - 130
Hexachlorobutadiene	<1.40		25.0	20.09		ug/L		80	28 - 150
Hexane	<0.780		25.0	19.94		ug/L		80	22 - 150
Isopropylbenzene	<0.350		25.0	19.70		ug/L		79	46 - 130
Methyl tert-butyl ether	<0.490		25.0	20.81		ug/L		83	52 - 130
Methylene Chloride	<1.70		25.0	19.62		ug/L		78	37 - 150
Naphthalene	<3.00		25.0	20.60		ug/L		82	40 - 150
n-Butylbenzene	<0.440		25.0	20.12		ug/L		80	45 - 131
N-Propylbenzene	<0.390		25.0	19.90		ug/L		80	47 - 130
p-Isopropyltoluene	<0.330		25.0	22.05		ug/L		88	50 - 130
sec-Butylbenzene	<0.440		25.0	18.35		ug/L		73	48 - 130
Styrene	<0.370		25.0	20.43		ug/L		82	47 - 130
tert-Butylbenzene	<0.390		25.0	19.20		ug/L		77	52 - 130
Tetrachloroethene	<0.480		25.0	17.70		ug/L		71	47 - 130
Toluene	<0.430		25.0	19.13		ug/L		77	51 - 130
trans-1,2-Dichloroethene	<0.270		25.0	19.79		ug/L		79	48 - 130
trans-1,3-Dichloropropene	<0.560		25.0	18.73		ug/L		75	50 - 130
Trichloroethene	<0.430		25.0	19.67		ug/L		79	51 - 130
Xylenes, Total	<0.400		50.0	40.10		ug/L		80	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*91*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: 310-295611-B-1 MSD
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		25.0	19.40		ug/L		78	55 - 130	4	20
1,1,1-Trichloroethane	<0.190		25.0	17.75		ug/L		71	52 - 130	5	20
1,1,2,2-Tetrachloroethane	<0.470		25.0	20.62		ug/L		82	54 - 130	4	20
1,1,2-Trichloroethane	<0.450		25.0	20.28		ug/L		81	58 - 130	2	20
1,1-Dichloroethane	<0.220		25.0	18.99		ug/L		76	49 - 130	8	20
1,1-Dichloroethene	<0.560		25.0	18.12		ug/L		72	37 - 132	7	26
1,1-Dichloropropene	<0.430		25.0	19.63		ug/L		79	50 - 132	7	20
1,2,3-Trichlorobenzene	<0.900		25.0	22.68		ug/L		91	38 - 150	2	21
1,2,3-Trichloropropane	<0.590		25.0	19.82		ug/L		79	49 - 130	2	26
1,2,4-Trichlorobenzene	<0.750		25.0	21.54		ug/L		86	55 - 130	3	20
1,2,4-Trimethylbenzene	<0.420		25.0	20.03		ug/L		80	49 - 130	1	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-295611-B-1 MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 440505

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	<1.20		25.0	22.88		ug/L		92	38 - 150	1	20
1,2-Dibromoethane (EDB)	<0.340		25.0	18.85		ug/L		75	60 - 130	4	20
1,2-Dichlorobenzene	<0.370		25.0	20.33		ug/L		81	59 - 130	0	20
1,2-Dichloroethane	<0.390		25.0	17.73		ug/L		71	51 - 130	6	20
1,2-Dichloropropane	<0.270		25.0	21.15		ug/L		85	57 - 130	2	20
1,3,5-Trimethylbenzene	<0.370		25.0	19.81		ug/L		79	50 - 130	0	32
1,3-Dichlorobenzene	<0.300		25.0	19.04		ug/L		76	57 - 130	3	20
1,3-Dichloropropane	<0.400		25.0	20.33		ug/L		81	56 - 130	6	20
1,4-Dichlorobenzene	<0.230		25.0	20.13		ug/L		81	57 - 130	1	20
2,2-Dichloropropane	<0.690		25.0	16.50		ug/L		66	25 - 150	7	25
2-Butanone (MEK)	<2.10		50.0	45.49		ug/L		91	38 - 150	3	20
2-Chloroethyl vinyl ether	<1.70	F1	25.0	<1.70	F1	ug/L		0	22 - 150	NC	25
2-Chlorotoluene	<0.280		25.0	19.93		ug/L		80	55 - 130	0	20
4-Chlorotoluene	<0.290		25.0	19.97		ug/L		80	50 - 130	0	20
Acetone	<3.10		50.0	39.69		ug/L		79	31 - 150	4	29
Benzene	<0.220		25.0	19.28		ug/L		77	46 - 130	7	20
Bromobenzene	<0.340		25.0	18.09		ug/L		72	57 - 130	2	20
Bromochloromethane	<0.540		25.0	17.60		ug/L		70	57 - 130	5	20
Bromodichloromethane	<0.390		25.0	17.80		ug/L		71	57 - 130	5	20
Bromoform	<0.780		25.0	17.42		ug/L		70	44 - 130	1	20
Carbon disulfide	<0.450		25.0	18.53		ug/L		74	38 - 135	9	30
Carbon tetrachloride	7.51		25.0	22.41		ug/L		60	45 - 132	7	20
Chlorobenzene	<0.400		25.0	18.59		ug/L		74	59 - 130	4	20
Chlorodibromomethane	<0.750		25.0	17.63		ug/L		71	54 - 130	4	20
Chloroform	<1.30		25.0	19.06		ug/L		76	51 - 130	5	20
cis-1,2-Dichloroethene	<0.210		25.0	18.83		ug/L		75	45 - 130	6	20
cis-1,3-Dichloropropene	<0.250		25.0	19.69		ug/L		79	53 - 130	4	20
Dibromomethane	<0.330		25.0	18.19		ug/L		73	59 - 130	4	20
Ethylbenzene	<0.310		25.0	19.56		ug/L		78	45 - 130	2	20
Hexachlorobutadiene	<1.40		25.0	17.94		ug/L		72	28 - 150	11	24
Hexane	<0.780		25.0	18.28		ug/L		73	22 - 150	9	20
Isopropylbenzene	<0.350		25.0	19.63		ug/L		79	46 - 130	0	20
Methyl tert-butyl ether	<0.490		25.0	20.77		ug/L		83	52 - 130	0	20
Methylene Chloride	<1.70		25.0	18.81		ug/L		75	37 - 150	4	24
Naphthalene	<3.00		25.0	21.08		ug/L		84	40 - 150	2	30
n-Butylbenzene	<0.440		25.0	19.60		ug/L		78	45 - 131	3	20
N-Propylbenzene	<0.390		25.0	20.37		ug/L		81	47 - 130	2	20
p-Isopropyltoluene	<0.330		25.0	21.89		ug/L		88	50 - 130	1	20
sec-Butylbenzene	<0.440		25.0	18.32		ug/L		73	48 - 130	0	20
Styrene	<0.370		25.0	20.08		ug/L		80	47 - 130	2	20
tert-Butylbenzene	<0.390		25.0	19.61		ug/L		78	52 - 130	2	20
Tetrachloroethene	<0.480		25.0	16.88		ug/L		68	47 - 130	5	20
Toluene	<0.430		25.0	17.76		ug/L		71	51 - 130	7	20
trans-1,2-Dichloroethene	<0.270		25.0	18.46		ug/L		74	48 - 130	7	22
trans-1,3-Dichloropropene	<0.560		25.0	18.45		ug/L		74	50 - 130	2	20
Trichloroethene	<0.430		25.0	18.76		ug/L		75	51 - 130	5	20
Xylenes, Total	<0.400		50.0	38.95		ug/L		78	43 - 130	3	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-295611-B-1 MSD
Matrix: Water
Analysis Batch: 440505

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	*89*		*73 - 130*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 310-441406/5
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.380		1.00	0.380	ug/L			12/04/24 03:49	1
1,1,1-Trichloroethane	<0.190		1.00	0.190	ug/L			12/04/24 03:49	1
1,1,2,2-Tetrachloroethane	<0.470		1.00	0.470	ug/L			12/04/24 03:49	1
1,1,2-Trichloroethane	<0.450		1.00	0.450	ug/L			12/04/24 03:49	1
1,1-Dichloroethane	<0.220		1.00	0.220	ug/L			12/04/24 03:49	1
1,1-Dichloroethene	<0.560		2.00	0.560	ug/L			12/04/24 03:49	1
1,1-Dichloropropene	<0.430		1.00	0.430	ug/L			12/04/24 03:49	1
1,2,3-Trichlorobenzene	<0.900		5.00	0.900	ug/L			12/04/24 03:49	1
1,2,3-Trichloropropane	<0.590		1.00	0.590	ug/L			12/04/24 03:49	1
1,2,4-Trichlorobenzene	<0.750		5.00	0.750	ug/L			12/04/24 03:49	1
1,2,4-Trimethylbenzene	<0.420		1.00	0.420	ug/L			12/04/24 03:49	1
1,2-Dibromo-3-Chloropropane	<1.20		5.00	1.20	ug/L			12/04/24 03:49	1
1,2-Dibromoethane (EDB)	<0.340		1.00	0.340	ug/L			12/04/24 03:49	1
1,2-Dichlorobenzene	<0.370		1.00	0.370	ug/L			12/04/24 03:49	1
1,2-Dichloroethane	<0.390		1.00	0.390	ug/L			12/04/24 03:49	1
1,2-Dichloropropane	<0.270		1.00	0.270	ug/L			12/04/24 03:49	1
1,3,5-Trimethylbenzene	<0.370		1.00	0.370	ug/L			12/04/24 03:49	1
1,3-Dichlorobenzene	<0.300		1.00	0.300	ug/L			12/04/24 03:49	1
1,3-Dichloropropane	<0.400		1.00	0.400	ug/L			12/04/24 03:49	1
1,4-Dichlorobenzene	<0.230		1.00	0.230	ug/L			12/04/24 03:49	1
2,2-Dichloropropane	<0.690		4.00	0.690	ug/L			12/04/24 03:49	1
2-Butanone (MEK)	<2.10		10.0	2.10	ug/L			12/04/24 03:49	1
2-Chloroethyl vinyl ether	<1.70		2.00	1.70	ug/L			12/04/24 03:49	1
2-Chlorotoluene	<0.280		1.00	0.280	ug/L			12/04/24 03:49	1
4-Chlorotoluene	<0.290		1.00	0.290	ug/L			12/04/24 03:49	1
Benzene	<0.220		0.500	0.220	ug/L			12/04/24 03:49	1
Bromobenzene	<0.340		1.00	0.340	ug/L			12/04/24 03:49	1
Bromochloromethane	<0.540		5.00	0.540	ug/L			12/04/24 03:49	1
Bromodichloromethane	<0.390		1.00	0.390	ug/L			12/04/24 03:49	1
Bromoform	<0.780		5.00	0.780	ug/L			12/04/24 03:49	1
Bromomethane	<1.10		4.00	1.10	ug/L			12/04/24 03:49	1
Carbon disulfide	<0.450		1.00	0.450	ug/L			12/04/24 03:49	1
Carbon tetrachloride	<0.650		2.00	0.650	ug/L			12/04/24 03:49	1
Chlorobenzene	<0.400		1.00	0.400	ug/L			12/04/24 03:49	1
Chlorodibromomethane	<0.750		5.00	0.750	ug/L			12/04/24 03:49	1
Chloroethane	<0.790		4.00	0.790	ug/L			12/04/24 03:49	1
Chloroform	<1.30		3.00	1.30	ug/L			12/04/24 03:49	1
Chloromethane	<0.610		3.00	0.610	ug/L			12/04/24 03:49	1
cis-1,2-Dichloroethene	<0.210		1.00	0.210	ug/L			12/04/24 03:49	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-441406/5
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<0.250		5.00	0.250	ug/L			12/04/24 03:49	1
Dibromomethane	<0.330		1.00	0.330	ug/L			12/04/24 03:49	1
Dichlorodifluoromethane	<0.250		3.00	0.250	ug/L			12/04/24 03:49	1
Ethylbenzene	<0.310		1.00	0.310	ug/L			12/04/24 03:49	1
Hexachlorobutadiene	<1.40		5.00	1.40	ug/L			12/04/24 03:49	1
Hexane	<0.780		1.00	0.780	ug/L			12/04/24 03:49	1
Isopropylbenzene	<0.350		1.00	0.350	ug/L			12/04/24 03:49	1
Methyl tert-butyl ether	<0.490		1.00	0.490	ug/L			12/04/24 03:49	1
Methylene Chloride	<1.70		5.00	1.70	ug/L			12/04/24 03:49	1
Naphthalene	<3.00		5.00	3.00	ug/L			12/04/24 03:49	1
n-Butylbenzene	<0.440		1.00	0.440	ug/L			12/04/24 03:49	1
N-Propylbenzene	<0.390		1.00	0.390	ug/L			12/04/24 03:49	1
p-Isopropyltoluene	<0.330		1.00	0.330	ug/L			12/04/24 03:49	1
sec-Butylbenzene	<0.440		1.00	0.440	ug/L			12/04/24 03:49	1
Styrene	<0.370		1.00	0.370	ug/L			12/04/24 03:49	1
tert-Butylbenzene	<0.390		1.00	0.390	ug/L			12/04/24 03:49	1
Tetrachloroethene	<0.480		1.00	0.480	ug/L			12/04/24 03:49	1
Toluene	<0.430		1.00	0.430	ug/L			12/04/24 03:49	1
trans-1,2-Dichloroethene	<0.270		1.00	0.270	ug/L			12/04/24 03:49	1
trans-1,3-Dichloropropene	<0.560		5.00	0.560	ug/L			12/04/24 03:49	1
Trichloroethene	<0.430		1.00	0.430	ug/L			12/04/24 03:49	1
Trichlorofluoromethane	<0.380		4.00	0.380	ug/L			12/04/24 03:49	1
Vinyl chloride	<0.180		1.00	0.180	ug/L			12/04/24 03:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*12/04/24 03:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/04/24 03:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*12/04/24 03:49*	*1*

Lab Sample ID: LCS 310-441406/6
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.76		ug/L		99	71 - 120
1,1,1-Trichloroethane	20.0	20.85		ug/L		104	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.50		ug/L		97	68 - 124
1,1,2-Trichloroethane	20.0	21.03		ug/L		105	73 - 123
1,1-Dichloroethane	20.0	19.70		ug/L		99	70 - 127
1,1-Dichloroethene	20.0	19.28		ug/L		96	63 - 132
1,1-Dichloropropene	20.0	20.90		ug/L		105	69 - 132
1,2,3-Trichlorobenzene	20.0	21.66		ug/L		108	50 - 150
1,2,3-Trichloropropane	20.0	20.91		ug/L		105	65 - 127
1,2,4-Trichlorobenzene	20.0	21.74		ug/L		109	68 - 124
1,2,4-Trimethylbenzene	20.0	20.92		ug/L		105	73 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.55		ug/L		93	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.89		ug/L		104	75 - 125
1,2-Dichlorobenzene	20.0	21.03		ug/L		105	74 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-441406/6
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	20.23		ug/L		101	71 - 125
1,2-Dichloropropane	20.0	20.57		ug/L		103	73 - 124
1,3,5-Trimethylbenzene	20.0	21.34		ug/L		107	73 - 123
1,3-Dichlorobenzene	20.0	20.66		ug/L		103	72 - 120
1,3-Dichloropropane	20.0	21.04		ug/L		105	72 - 125
1,4-Dichlorobenzene	20.0	20.65		ug/L		103	72 - 120
2,2-Dichloropropane	20.0	15.94		ug/L		80	50 - 150
2-Butanone (MEK)	40.0	36.41		ug/L		91	50 - 150
2-Chloroethyl vinyl ether	20.0	20.37		ug/L		102	48 - 150
2-Chlorotoluene	20.0	20.51		ug/L		103	73 - 121
4-Chlorotoluene	20.0	20.21		ug/L		101	72 - 121
Acetone	40.0	39.66		ug/L		99	50 - 150
Benzene	20.0	20.03		ug/L		100	72 - 124
Bromobenzene	20.0	20.61		ug/L		103	72 - 120
Bromochloromethane	20.0	20.43		ug/L		102	73 - 130
Bromodichloromethane	20.0	18.88		ug/L		94	74 - 122
Bromoform	20.0	17.08		ug/L		85	61 - 122
Carbon disulfide	20.0	17.58		ug/L		88	59 - 135
Carbon tetrachloride	20.0	20.42		ug/L		102	67 - 132
Chlorobenzene	20.0	20.73		ug/L		104	76 - 120
Chlorodibromomethane	20.0	18.46		ug/L		92	71 - 121
Chloroform	20.0	20.53		ug/L		103	72 - 125
cis-1,2-Dichloroethene	20.0	20.39		ug/L		102	74 - 123
cis-1,3-Dichloropropene	20.0	19.51		ug/L		98	71 - 125
Dibromomethane	20.0	20.47		ug/L		102	74 - 125
Ethylbenzene	20.0	20.89		ug/L		104	74 - 122
Hexachlorobutadiene	20.0	21.89		ug/L		109	50 - 150
Hexane	20.0	17.71		ug/L		89	45 - 150
Isopropylbenzene	20.0	21.33		ug/L		107	73 - 125
Methyl tert-butyl ether	20.0	19.77		ug/L		99	68 - 130
Methylene Chloride	20.0	20.57		ug/L		103	50 - 150
Naphthalene	20.0	20.88		ug/L		104	50 - 150
n-Butylbenzene	20.0	19.99		ug/L		100	67 - 131
N-Propylbenzene	20.0	21.18		ug/L		106	72 - 126
p-Isopropyltoluene	20.0	22.02		ug/L		110	70 - 127
sec-Butylbenzene	20.0	22.05		ug/L		110	70 - 127
Styrene	20.0	21.08		ug/L		105	74 - 121
tert-Butylbenzene	20.0	22.01		ug/L		110	72 - 124
Tetrachloroethene	20.0	21.23		ug/L		106	71 - 130
Toluene	20.0	21.21		ug/L		106	74 - 123
trans-1,2-Dichloroethene	20.0	21.20		ug/L		106	70 - 126
trans-1,3-Dichloropropene	20.0	19.21		ug/L		96	69 - 123
Trichloroethene	20.0	19.88		ug/L		99	72 - 126
Xylenes, Total	40.0	42.19		ug/L		105	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-441406/6
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Lab Sample ID: LCS 310-441406/7
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	19.43		ug/L		97	23 - 150
Chloroethane	20.0	19.27		ug/L		96	54 - 136
Chloromethane	20.0	20.26		ug/L		101	38 - 150
Dichlorodifluoromethane	20.0	20.60		ug/L		103	39 - 150
Trichlorofluoromethane	20.0	20.17		ug/L		101	54 - 149
Vinyl chloride	20.0	20.45		ug/L		102	56 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*106*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Lab Sample ID: 310-296206-G-3 MS
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.380		25.0	21.74		ug/L		87	55 - 130
1,1,1-Trichloroethane	<0.190		25.0	22.91		ug/L		92	52 - 130
1,1,2,2-Tetrachloroethane	<0.470		25.0	21.15		ug/L		85	54 - 130
1,1,2-Trichloroethane	<0.450		25.0	22.65		ug/L		91	58 - 130
1,1-Dichloroethane	<0.220		25.0	20.77		ug/L		83	49 - 130
1,1-Dichloroethene	<0.560		25.0	22.25		ug/L		89	37 - 132
1,1-Dichloropropene	<0.430		25.0	22.29		ug/L		89	50 - 132
1,2,3-Trichlorobenzene	<0.900		25.0	23.70		ug/L		95	38 - 150
1,2,3-Trichloropropane	<0.590		25.0	21.78		ug/L		87	49 - 130
1,2,4-Trichlorobenzene	<0.750		25.0	23.61		ug/L		94	55 - 130
1,2,4-Trimethylbenzene	<0.420		25.0	21.65		ug/L		87	49 - 130
1,2-Dibromo-3-Chloropropane	<1.20		25.0	20.78		ug/L		83	38 - 150
1,2-Dibromoethane (EDB)	<0.340		25.0	23.36		ug/L		93	60 - 130
1,2-Dichlorobenzene	<0.370		25.0	22.24		ug/L		89	59 - 130
1,2-Dichloroethane	<0.390		25.0	22.57		ug/L		90	51 - 130
1,2-Dichloropropane	<0.270		25.0	21.94		ug/L		88	57 - 130
1,3,5-Trimethylbenzene	<0.370		25.0	22.05		ug/L		88	50 - 130
1,3-Dichlorobenzene	<0.300		25.0	22.37		ug/L		89	57 - 130
1,3-Dichloropropane	<0.400		25.0	22.65		ug/L		91	56 - 130
1,4-Dichlorobenzene	<0.230		25.0	21.77		ug/L		87	57 - 130
2,2-Dichloropropane	<0.690		25.0	16.31		ug/L		65	25 - 150
2-Butanone (MEK)	<2.10		50.0	39.93		ug/L		80	38 - 150
2-Chloroethyl vinyl ether	<1.70	F1	25.0	<1.70	F1	ug/L		0	22 - 150
2-Chlorotoluene	<0.280		25.0	21.35		ug/L		85	55 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-296206-G-3 MS
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorotoluene	<0.290		25.0	21.16		ug/L		85	50 - 130
Acetone	3.59	J B	50.0	44.23		ug/L		81	31 - 150
Benzene	<0.220		25.0	20.81		ug/L		83	46 - 130
Bromobenzene	<0.340		25.0	22.44		ug/L		90	57 - 130
Bromochloromethane	<0.540		25.0	23.06		ug/L		92	57 - 130
Bromodichloromethane	<0.390		25.0	21.84		ug/L		87	57 - 130
Bromoform	<0.780		25.0	20.79		ug/L		83	44 - 130
Carbon disulfide	<0.450		25.0	20.80		ug/L		83	38 - 135
Carbon tetrachloride	<0.650		25.0	23.59		ug/L		94	45 - 132
Chlorobenzene	<0.400		25.0	21.52		ug/L		86	59 - 130
Chlorodibromomethane	<0.750		25.0	22.49		ug/L		90	54 - 130
Chloroform	<1.30		25.0	22.33		ug/L		89	51 - 130
cis-1,2-Dichloroethene	<0.210		25.0	21.35		ug/L		85	45 - 130
cis-1,3-Dichloropropene	<0.250		25.0	20.54		ug/L		82	53 - 130
Dibromomethane	<0.330		25.0	22.21		ug/L		89	59 - 130
Ethylbenzene	<0.310		25.0	21.31		ug/L		85	45 - 130
Hexachlorobutadiene	<1.40		25.0	24.34		ug/L		97	28 - 150
Hexane	0.886	J	25.0	17.91		ug/L		68	22 - 150
Isopropylbenzene	<0.350		25.0	22.24		ug/L		89	46 - 130
Methyl tert-butyl ether	<0.490		25.0	20.81		ug/L		83	52 - 130
Methylene Chloride	<1.70		25.0	22.77		ug/L		91	37 - 150
Naphthalene	<3.00		25.0	23.87		ug/L		95	40 - 150
n-Butylbenzene	<0.440		25.0	21.38		ug/L		86	45 - 131
N-Propylbenzene	<0.390		25.0	22.14		ug/L		89	47 - 130
p-Isopropyltoluene	<0.330		25.0	23.29		ug/L		93	50 - 130
sec-Butylbenzene	<0.440		25.0	23.20		ug/L		93	48 - 130
Styrene	<0.370		25.0	20.97		ug/L		84	47 - 130
tert-Butylbenzene	<0.390		25.0	23.27		ug/L		93	52 - 130
Tetrachloroethene	<0.480		25.0	23.45		ug/L		94	47 - 130
Toluene	1.05		25.0	23.46		ug/L		90	51 - 130
trans-1,2-Dichloroethene	<0.270		25.0	20.80		ug/L		83	48 - 130
trans-1,3-Dichloropropene	<0.560		25.0	20.68		ug/L		83	50 - 130
Trichloroethene	<0.430		25.0	22.01		ug/L		88	51 - 130
Xylenes, Total	0.569	J B	50.0	42.55		ug/L		84	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: 310-296206-G-3 MSD
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.380		25.0	21.05		ug/L		84	55 - 130	3	20
1,1,1-Trichloroethane	<0.190		25.0	20.60		ug/L		82	52 - 130	11	20
1,1,2,2-Tetrachloroethane	<0.470		25.0	20.70		ug/L		83	54 - 130	2	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-296206-G-3 MSD
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	<0.450		25.0	22.08		ug/L		88	58 - 130	3	20
1,1-Dichloroethane	<0.220		25.0	18.76		ug/L		75	49 - 130	10	20
1,1-Dichloroethene	<0.560		25.0	20.24		ug/L		81	37 - 132	9	26
1,1-Dichloropropene	<0.430		25.0	20.65		ug/L		83	50 - 132	8	20
1,2,3-Trichlorobenzene	<0.900		25.0	23.50		ug/L		94	38 - 150	1	21
1,2,3-Trichloropropane	<0.590		25.0	21.89		ug/L		88	49 - 130	1	26
1,2,4-Trichlorobenzene	<0.750		25.0	23.18		ug/L		93	55 - 130	2	20
1,2,4-Trimethylbenzene	<0.420		25.0	21.88		ug/L		88	49 - 130	1	25
1,2-Dibromo-3-Chloropropane	<1.20		25.0	21.14		ug/L		85	38 - 150	2	20
1,2-Dibromoethane (EDB)	<0.340		25.0	22.26		ug/L		89	60 - 130	5	20
1,2-Dichlorobenzene	<0.370		25.0	22.11		ug/L		88	59 - 130	1	20
1,2-Dichloroethane	<0.390		25.0	20.54		ug/L		82	51 - 130	9	20
1,2-Dichloropropane	<0.270		25.0	20.83		ug/L		83	57 - 130	5	20
1,3,5-Trimethylbenzene	<0.370		25.0	22.37		ug/L		89	50 - 130	1	32
1,3-Dichlorobenzene	<0.300		25.0	22.63		ug/L		91	57 - 130	1	20
1,3-Dichloropropane	<0.400		25.0	21.75		ug/L		87	56 - 130	4	20
1,4-Dichlorobenzene	<0.230		25.0	21.68		ug/L		87	57 - 130	0	20
2,2-Dichloropropane	<0.690		25.0	15.53		ug/L		62	25 - 150	5	25
2-Butanone (MEK)	<2.10		50.0	40.25		ug/L		81	38 - 150	1	20
2-Chloroethyl vinyl ether	<1.70	F1	25.0	<1.70	F1	ug/L		0	22 - 150	NC	25
2-Chlorotoluene	<0.280		25.0	21.37		ug/L		85	55 - 130	0	20
4-Chlorotoluene	<0.290		25.0	21.42		ug/L		86	50 - 130	1	20
Acetone	3.59	J B	50.0	42.50		ug/L		78	31 - 150	4	29
Benzene	<0.220		25.0	19.55		ug/L		78	46 - 130	6	20
Bromobenzene	<0.340		25.0	22.04		ug/L		88	57 - 130	2	20
Bromochloromethane	<0.540		25.0	21.29		ug/L		85	57 - 130	8	20
Bromodichloromethane	<0.390		25.0	20.97		ug/L		84	57 - 130	4	20
Bromoform	<0.780		25.0	20.94		ug/L		84	44 - 130	1	20
Carbon disulfide	<0.450		25.0	18.77		ug/L		75	38 - 135	10	30
Carbon tetrachloride	<0.650		25.0	21.63		ug/L		87	45 - 132	9	20
Chlorobenzene	<0.400		25.0	21.11		ug/L		84	59 - 130	2	20
Chlorodibromomethane	<0.750		25.0	22.27		ug/L		89	54 - 130	1	20
Chloroform	<1.30		25.0	21.31		ug/L		85	51 - 130	5	20
cis-1,2-Dichloroethene	<0.210		25.0	19.88		ug/L		80	45 - 130	7	20
cis-1,3-Dichloropropene	<0.250		25.0	19.66		ug/L		79	53 - 130	4	20
Dibromomethane	<0.330		25.0	21.58		ug/L		86	59 - 130	3	20
Ethylbenzene	<0.310		25.0	20.88		ug/L		84	45 - 130	2	20
Hexachlorobutadiene	<1.40		25.0	19.98		ug/L		80	28 - 150	20	24
Hexane	0.886	J	25.0	16.66		ug/L		63	22 - 150	7	20
Isopropylbenzene	<0.350		25.0	22.33		ug/L		89	46 - 130	0	20
Methyl tert-butyl ether	<0.490		25.0	20.76		ug/L		83	52 - 130	0	20
Methylene Chloride	<1.70		25.0	21.54		ug/L		86	37 - 150	6	24
Naphthalene	<3.00		25.0	23.45		ug/L		94	40 - 150	2	30
n-Butylbenzene	<0.440		25.0	20.56		ug/L		82	45 - 131	4	20
N-Propylbenzene	<0.390		25.0	22.29		ug/L		89	47 - 130	1	20
p-Isopropyltoluene	<0.330		25.0	22.82		ug/L		91	50 - 130	2	20
sec-Butylbenzene	<0.440		25.0	23.20		ug/L		93	48 - 130	0	20
Styrene	<0.370		25.0	20.65		ug/L		83	47 - 130	2	20
tert-Butylbenzene	<0.390		25.0	23.48		ug/L		94	52 - 130	1	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-296206-G-3 MSD
Matrix: Water
Analysis Batch: 441406

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	<0.480		25.0	22.69		ug/L		91	47 - 130	3	20
Toluene	1.05		25.0	22.18		ug/L		85	51 - 130	6	20
trans-1,2-Dichloroethene	<0.270		25.0	20.13		ug/L		81	48 - 130	3	22
trans-1,3-Dichloropropene	<0.560		25.0	20.07		ug/L		80	50 - 130	3	20
Trichloroethene	<0.430		25.0	20.42		ug/L		82	51 - 130	7	20
Xylenes, Total	0.569	J B	50.0	42.02		ug/L		83	43 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-440593/1-A
Matrix: Water
Analysis Batch: 440651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.640		10.0	0.640	ug/L		11/22/24 06:52	11/22/24 13:26	1
Acenaphthylene	<0.720		10.0	0.720	ug/L		11/22/24 06:52	11/22/24 13:26	1
Acetophenone	<0.690		10.0	0.690	ug/L		11/22/24 06:52	11/22/24 13:26	1
2-Acetylaminofluorene	NC		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 13:26	1
4-Aminobiphenyl	NC		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 13:26	1
Anthracene	<0.870		10.0	0.870	ug/L		11/22/24 06:52	11/22/24 13:26	1
Benzo[a]anthracene	<0.850		10.0	0.850	ug/L		11/22/24 06:52	11/22/24 13:26	1
Benzo[a]pyrene	<8.10		10.0	8.10	ug/L		11/22/24 06:52	11/22/24 13:26	1
Benzo[b]fluoranthene	<4.90		10.0	4.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
Benzo[g,h,i]perylene	<6.30		10.0	6.30	ug/L		11/22/24 06:52	11/22/24 13:26	1
Benzoic acid	<17.0		100	17.0	ug/L		11/22/24 06:52	11/22/24 13:26	1
Benzo[k]fluoranthene	<2.20		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 13:26	1
Benzyl alcohol	3.657	J	10.0	1.30	ug/L		11/22/24 06:52	11/22/24 13:26	1
Bis(2-chloroethoxy)methane	<0.760		10.0	0.760	ug/L		11/22/24 06:52	11/22/24 13:26	1
Bis(2-chloroethyl)ether	<0.820		10.0	0.820	ug/L		11/22/24 06:52	11/22/24 13:26	1
bis (2-chloroisopropyl) ether	<0.540		10.0	0.540	ug/L		11/22/24 06:52	11/22/24 13:26	1
Bis(2-ethylhexyl) phthalate	<5.50		10.0	5.50	ug/L		11/22/24 06:52	11/22/24 13:26	1
4-Bromophenyl phenyl ether	<0.700		10.0	0.700	ug/L		11/22/24 06:52	11/22/24 13:26	1
Butyl benzyl phthalate	<5.40		10.0	5.40	ug/L		11/22/24 06:52	11/22/24 13:26	1
4-Chloroaniline	<0.620		10.0	0.620	ug/L		11/22/24 06:52	11/22/24 13:26	1
Chlorobenzilate	NC		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
4-Chloro-3-methylphenol	<0.840		10.0	0.840	ug/L		11/22/24 06:52	11/22/24 13:26	1
2-Chloronaphthalene	<0.640		10.0	0.640	ug/L		11/22/24 06:52	11/22/24 13:26	1
2-Chlorophenol	<0.540		10.0	0.540	ug/L		11/22/24 06:52	11/22/24 13:26	1
4-Chlorophenyl phenyl ether	<0.690		10.0	0.690	ug/L		11/22/24 06:52	11/22/24 13:26	1
Chrysene	<0.870		10.0	0.870	ug/L		11/22/24 06:52	11/22/24 13:26	1
Dibenzo(a,h)anthracene	<3.90		10.0	3.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
Dibenzofuran	<0.740		10.0	0.740	ug/L		11/22/24 06:52	11/22/24 13:26	1
3,3'-Dichlorobenzidine	<1.40		10.0	1.40	ug/L		11/22/24 06:52	11/22/24 13:26	1
2,4-Dichlorophenol	<0.850		10.0	0.850	ug/L		11/22/24 06:52	11/22/24 13:26	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-440593/1-A
Matrix: Water
Analysis Batch: 440651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dichlorophenol	<0.690		10.0	0.690	ug/L		11/22/24 06:52	11/22/24 13:26	1
Diethyl phthalate	<1.70		10.0	1.70	ug/L		11/22/24 06:52	11/22/24 13:26	1
Dimethoate	NC		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
7,12-Dimethylbenz(a)anthracene	NC		10.0	1.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
3,3'-Dimethylbenzidine	NC		10.0	1.50	ug/L		11/22/24 06:52	11/22/24 13:26	1
2,4-Dimethylphenol	<0.580		10.0	0.580	ug/L		11/22/24 06:52	11/22/24 13:26	1
Dimethyl phthalate	<1.00		10.0	1.00	ug/L		11/22/24 06:52	11/22/24 13:26	1
Di-n-butyl phthalate	<5.60		10.0	5.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
1,3-Dinitrobenzene	<3.20		10.0	3.20	ug/L		11/22/24 06:52	11/22/24 13:26	1
4,6-Dinitro-2-methylphenol	<6.90		10.0	6.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
2,4-Dinitrophenol	<13.0		20.0	13.0	ug/L		11/22/24 06:52	11/22/24 13:26	1
2,4-Dinitrotoluene	<6.40		10.0	6.40	ug/L		11/22/24 06:52	11/22/24 13:26	1
2,6-Dinitrotoluene	<0.520		10.0	0.520	ug/L		11/22/24 06:52	11/22/24 13:26	1
Di-n-octyl phthalate	<7.00		20.0	7.00	ug/L		11/22/24 06:52	11/22/24 13:26	1
Dinoseb	NC		10.0	2.40	ug/L		11/22/24 06:52	11/22/24 13:26	1
Diphenylamine	<6.00		10.0	6.00	ug/L		11/22/24 06:52	11/22/24 13:26	1
Disulfoton	NC		10.0	2.40	ug/L		11/22/24 06:52	11/22/24 13:26	1
Ethyl methanesulfonate	NC		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
Ethyl Parathion	NC		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 13:26	1
Famphur	NC		10.0	3.80	ug/L		11/22/24 06:52	11/22/24 13:26	1
Fluoranthene	<1.70		10.0	1.70	ug/L		11/22/24 06:52	11/22/24 13:26	1
Fluorene	<0.790		10.0	0.790	ug/L		11/22/24 06:52	11/22/24 13:26	1
Hexachlorobenzene	<0.700		10.0	0.700	ug/L		11/22/24 06:52	11/22/24 13:26	1
Hexachlorobutadiene	<0.860		10.0	0.860	ug/L		11/22/24 06:52	11/22/24 13:26	1
Hexachlorocyclopentadiene	<5.10		10.0	5.10	ug/L		11/22/24 06:52	11/22/24 13:26	1
Hexachloroethane	<0.970		10.0	0.970	ug/L		11/22/24 06:52	11/22/24 13:26	1
Hexachloropropene	NC		10.0	2.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
Indeno[1,2,3-cd]pyrene	<4.20		10.0	4.20	ug/L		11/22/24 06:52	11/22/24 13:26	1
Isodrin	NC		10.0	4.70	ug/L		11/22/24 06:52	11/22/24 13:26	1
Isophorone	<0.930		10.0	0.930	ug/L		11/22/24 06:52	11/22/24 13:26	1
Kepone	NC		10.0	1.00	ug/L		11/22/24 06:52	11/22/24 13:26	1
Methapyrilene	NC		10.0	0.760	ug/L		11/22/24 06:52	11/22/24 13:26	1
3-Methylcholanthrene	NC		10.0	0.320	ug/L		11/22/24 06:52	11/22/24 13:26	1
Methyl methanesulfonate	NC		10.0	3.30	ug/L		11/22/24 06:52	11/22/24 13:26	1
2-Methylnaphthalene	<0.590		10.0	0.590	ug/L		11/22/24 06:52	11/22/24 13:26	1
Methyl parathion	NC		10.0	2.30	ug/L		11/22/24 06:52	11/22/24 13:26	1
2-Methylphenol	<0.650		10.0	0.650	ug/L		11/22/24 06:52	11/22/24 13:26	1
Methylphenol, 3 & 4	<0.700		10.0	0.700	ug/L		11/22/24 06:52	11/22/24 13:26	1
1,4-Naphthoquinone	NC		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
1-Naphthylamine	NC		10.0	2.50	ug/L		11/22/24 06:52	11/22/24 13:26	1
2-Naphthylamine	NC		10.0	2.10	ug/L		11/22/24 06:52	11/22/24 13:26	1
2-Nitroaniline	<5.90		10.0	5.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
3-Nitroaniline	<2.70		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 13:26	1
4-Nitroaniline	<1.30		10.0	1.30	ug/L		11/22/24 06:52	11/22/24 13:26	1
Nitrobenzene	<0.800		10.0	0.800	ug/L		11/22/24 06:52	11/22/24 13:26	1
5-Nitro-o-toluidine	NC		10.0	2.80	ug/L		11/22/24 06:52	11/22/24 13:26	1
2-Nitrophenol	<6.80		10.0	6.80	ug/L		11/22/24 06:52	11/22/24 13:26	1
4-Nitrophenol	<7.60		10.0	7.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
N-Nitrosodiethylamine	NC		10.0	3.40	ug/L		11/22/24 06:52	11/22/24 13:26	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-440593/1-A
Matrix: Water
Analysis Batch: 440651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<0.720		10.0	0.720	ug/L		11/22/24 06:52	11/22/24 13:26	1
N-Nitrosodi-n-butylamine	NC		10.0	3.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
N-Nitrosodi-n-propylamine	<0.920		10.0	0.920	ug/L		11/22/24 06:52	11/22/24 13:26	1
N-Nitrosodiphenylamine	<0.750		10.0	0.750	ug/L		11/22/24 06:52	11/22/24 13:26	1
N-Nitrosomethylethylamine	NC		10.0	4.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
N-Nitrosopiperidine	NC		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 13:26	1
N-Nitrosopyrrolidine	NC		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
o,o',o''-Triethylphosphorothioate	NC		10.0	3.20	ug/L		11/22/24 06:52	11/22/24 13:26	1
o-Toluidine	NC		10.0	2.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
p-Dimethylamino azobenzene	NC		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 13:26	1
Pentachlorobenzene	NC		10.0	2.80	ug/L		11/22/24 06:52	11/22/24 13:26	1
Pentachloronitrobenzene	NC		10.0	5.80	ug/L		11/22/24 06:52	11/22/24 13:26	1
Pentachlorophenol	<9.60		10.0	9.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
Phenacetin	NC		10.0	1.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
Phenanthrene	<0.790		10.0	0.790	ug/L		11/22/24 06:52	11/22/24 13:26	1
Phenol	<1.10		10.0	1.10	ug/L		11/22/24 06:52	11/22/24 13:26	1
1,4-phenylenediamine	NC		10.0	1.90	ug/L		11/22/24 06:52	11/22/24 13:26	1
Phorate	NC		10.0	3.20	ug/L		11/22/24 06:52	11/22/24 13:26	1
Pronamide	NC		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 13:26	1
Pyrene	<0.790		10.0	0.790	ug/L		11/22/24 06:52	11/22/24 13:26	1
Pyridine	<1.60		10.0	1.60	ug/L		11/22/24 06:52	11/22/24 13:26	1
Safrole	NC		10.0	2.80	ug/L		11/22/24 06:52	11/22/24 13:26	1
1,2,4,5-Tetrachlorobenzene	<0.540		10.0	0.540	ug/L		11/22/24 06:52	11/22/24 13:26	1
2,3,4,6-Tetrachlorophenol	<5.30		10.0	5.30	ug/L		11/22/24 06:52	11/22/24 13:26	1
Thionazin	NC		10.0	3.50	ug/L		11/22/24 06:52	11/22/24 13:26	1
2,4,5-Trichlorophenol	<5.30		10.0	5.30	ug/L		11/22/24 06:52	11/22/24 13:26	1
2,4,6-Trichlorophenol	<5.00		10.0	5.00	ug/L		11/22/24 06:52	11/22/24 13:26	1
1,3,5-Trinitrobenzene	NC		10.0	2.30	ug/L		11/22/24 06:52	11/22/24 13:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*39 - 118*	*11/22/24 06:52*	*11/22/24 13:26*	*1*
2-Fluorophenol (Surr)	*74*		*25 - 110*	*11/22/24 06:52*	*11/22/24 13:26*	*1*
Nitrobenzene-d5 (Surr)	*92*		*45 - 129*	*11/22/24 06:52*	*11/22/24 13:26*	*1*
Phenol-d5 (Surr)	*63*		*21 - 110*	*11/22/24 06:52*	*11/22/24 13:26*	*1*
Terphenyl-d14 (Surr)	*91*		*12 - 144*	*11/22/24 06:52*	*11/22/24 13:26*	*1*
2,4,6-Tribromophenol (Surr)	*112*		*27 - 136*	*11/22/24 06:52*	*11/22/24 13:26*	*1*

Lab Sample ID: MB 310-440593/1-A
Matrix: Water
Analysis Batch: 440695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	<2.70		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 14:22	1
4-Aminobiphenyl	<2.20		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 14:22	1
Chlorobenzilate	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:22	1
Diallate	<4.00		10.0	4.00	ug/L		11/22/24 06:52	11/22/24 14:22	1
Dimethoate	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:22	1
7,12-Dimethylbenz(a)anthracene	<1.90		10.0	1.90	ug/L		11/22/24 06:52	11/22/24 14:22	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-440593/1-A
Matrix: Water
Analysis Batch: 440695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<1.50		10.0	1.50	ug/L		11/22/24 06:52	11/22/24 14:22	1
Dinoseb	<2.40		10.0	2.40	ug/L		11/22/24 06:52	11/22/24 14:22	1
Disulfoton	<2.40		10.0	2.40	ug/L		11/22/24 06:52	11/22/24 14:22	1
Ethyl methanesulfonate	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:22	1
Ethyl Parathion	<2.20		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 14:22	1
Famphur	<3.80		10.0	3.80	ug/L		11/22/24 06:52	11/22/24 14:22	1
Hexachloropropene	<2.60		10.0	2.60	ug/L		11/22/24 06:52	11/22/24 14:22	1
Isodrin	<4.70		10.0	4.70	ug/L		11/22/24 06:52	11/22/24 14:22	1
Kepone	<1.00		10.0	1.00	ug/L		11/22/24 06:52	11/22/24 14:22	1
Methapyrilene	<0.760		10.0	0.760	ug/L		11/22/24 06:52	11/22/24 14:22	1
3-Methylcholanthrene	<0.320		10.0	0.320	ug/L		11/22/24 06:52	11/22/24 14:22	1
Methyl methanesulfonate	<3.30		10.0	3.30	ug/L		11/22/24 06:52	11/22/24 14:22	1
Methyl parathion	<2.30		10.0	2.30	ug/L		11/22/24 06:52	11/22/24 14:22	1
1,4-Naphthoquinone	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:22	1
1-Naphthylamine	<2.50		10.0	2.50	ug/L		11/22/24 06:52	11/22/24 14:22	1
2-Naphthylamine	<2.10		10.0	2.10	ug/L		11/22/24 06:52	11/22/24 14:22	1
5-Nitro-o-toluidine	<2.80		10.0	2.80	ug/L		11/22/24 06:52	11/22/24 14:22	1
N-Nitrosodiethylamine	<3.40		10.0	3.40	ug/L		11/22/24 06:52	11/22/24 14:22	1
N-Nitrosodi-n-butylamine	<3.90		10.0	3.90	ug/L		11/22/24 06:52	11/22/24 14:22	1
N-Nitrosomethylethylamine	<4.90		10.0	4.90	ug/L		11/22/24 06:52	11/22/24 14:22	1
N-Nitrosopiperidine	<2.70		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 14:22	1
N-Nitrosopyrrolidine	<3.60		10.0	3.60	ug/L		11/22/24 06:52	11/22/24 14:22	1
o,o',o''-Triethylphosphorothioate	<3.20		10.0	3.20	ug/L		11/22/24 06:52	11/22/24 14:22	1
o-Toluidine	<2.90		10.0	2.90	ug/L		11/22/24 06:52	11/22/24 14:22	1
p-Dimethylamino azobenzene	<2.20		10.0	2.20	ug/L		11/22/24 06:52	11/22/24 14:22	1
Pentachlorobenzene	<2.80		10.0	2.80	ug/L		11/22/24 06:52	11/22/24 14:22	1
Pentachloronitrobenzene	<5.80		10.0	5.80	ug/L		11/22/24 06:52	11/22/24 14:22	1
Phenacetin	<1.90		10.0	1.90	ug/L		11/22/24 06:52	11/22/24 14:22	1
1,4-phenylenediamine	<1.90		10.0	1.90	ug/L		11/22/24 06:52	11/22/24 14:22	1
Phorate	<3.20		10.0	3.20	ug/L		11/22/24 06:52	11/22/24 14:22	1
Pronamide	<2.70		10.0	2.70	ug/L		11/22/24 06:52	11/22/24 14:22	1
Safrole	<2.80		10.0	2.80	ug/L		11/22/24 06:52	11/22/24 14:22	1
Thionazin	<3.50		10.0	3.50	ug/L		11/22/24 06:52	11/22/24 14:22	1
1,3,5-Trinitrobenzene	<2.30		10.0	2.30	ug/L		11/22/24 06:52	11/22/24 14:22	1

Lab Sample ID: LCS 310-440593/2-A
Matrix: Water
Analysis Batch: 440651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	100	68.69		ug/L		69	43 - 110
Acenaphthylene	100	75.83		ug/L		76	40 - 110
Acetophenone	100	80.91		ug/L		81	48 - 119
Anthracene	100	84.53		ug/L		85	51 - 120
Benzo[a]anthracene	100	80.94		ug/L		81	51 - 123
Benzo[a]pyrene	100	79.10		ug/L		79	48 - 125
Benzo[b]fluoranthene	100	80.36		ug/L		80	49 - 129
Benzo[g,h,i]perylene	100	75.47		ug/L		75	43 - 139
Benzo[k]fluoranthene	100	84.04		ug/L		84	47 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-440593/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 440651
Prep Batch: 440593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzyl alcohol	100	104.1		ug/L		104	39 - 128
Bis(2-chloroethoxy)methane	100	75.56		ug/L		76	48 - 121
Bis(2-chloroethyl)ether	100	67.56		ug/L		68	43 - 123
bis (2-chloroisopropyl) ether	100	63.08		ug/L		63	34 - 123
Bis(2-ethylhexyl) phthalate	100	98.30		ug/L		98	43 - 143
4-Bromophenyl phenyl ether	100	87.89		ug/L		88	45 - 119
Butyl benzyl phthalate	100	92.46		ug/L		92	46 - 135
4-Chloroaniline	100	103.5		ug/L		104	21 - 139
4-Chloro-3-methylphenol	100	93.70		ug/L		94	49 - 130
2-Chloronaphthalene	100	70.73		ug/L		71	37 - 110
2-Chlorophenol	100	83.32		ug/L		83	44 - 117
4-Chlorophenyl phenyl ether	100	75.83		ug/L		76	44 - 116
Chrysene	100	82.62		ug/L		83	51 - 125
Dibenzo(a,h)anthracene	100	76.88		ug/L		77	38 - 149
Dibenzofuran	100	76.62		ug/L		77	45 - 112
2,4-Dichlorophenol	100	88.93		ug/L		89	41 - 124
2,6-Dichlorophenol	100	84.19		ug/L		84	30 - 130
Diethyl phthalate	100	82.11		ug/L		82	43 - 135
2,4-Dimethylphenol	100	82.75		ug/L		83	31 - 142
Dimethyl phthalate	100	85.24		ug/L		85	43 - 129
Di-n-butyl phthalate	100	89.58		ug/L		90	50 - 133
1,3-Dinitrobenzene	100	106.0		ug/L		106	45 - 138
4,6-Dinitro-2-methylphenol	200	209.3		ug/L		105	22 - 143
2,4-Dinitrophenol	200	235.8		ug/L		118	10 - 138
2,4-Dinitrotoluene	100	93.16		ug/L		93	47 - 137
2,6-Dinitrotoluene	100	94.52		ug/L		95	51 - 130
Di-n-octyl phthalate	100	99.28		ug/L		99	34 - 150
Fluoranthene	100	81.11		ug/L		81	47 - 128
Fluorene	100	74.97		ug/L		75	45 - 119
Hexachlorobenzene	100	90.42		ug/L		90	48 - 119
Hexachlorobutadiene	100	62.97		ug/L		63	32 - 110
Hexachlorocyclopentadiene	100	48.66		ug/L		49	10 - 110
Hexachloroethane	100	54.53		ug/L		55	31 - 110
Indeno[1,2,3-cd]pyrene	100	75.06		ug/L		75	37 - 150
Isophorone	100	80.88		ug/L		81	50 - 125
2-Methylnaphthalene	100	70.97		ug/L		71	33 - 110
2-Methylphenol	100	82.49		ug/L		82	47 - 118
Methylphenol, 3 & 4	100	81.77		ug/L		82	46 - 117
2-Nitroaniline	100	81.90		ug/L		82	50 - 135
3-Nitroaniline	100	92.68		ug/L		93	42 - 139
4-Nitroaniline	100	74.20		ug/L		74	31 - 145
Nitrobenzene	100	75.43		ug/L		75	47 - 116
2-Nitrophenol	100	87.93		ug/L		88	41 - 129
4-Nitrophenol	200	120.5		ug/L		60	18 - 110
N-Nitrosodimethylamine	100	56.38		ug/L		56	37 - 110
N-Nitrosodi-n-propylamine	100	74.83		ug/L		75	45 - 130
N-Nitrosodiphenylamine	100	84.51		ug/L		85	49 - 121
Pentachlorophenol	200	205.3		ug/L		103	26 - 133
Phenanthrene	100	80.65		ug/L		81	51 - 117

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-440593/2-A
Matrix: Water
Analysis Batch: 440651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440593

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenol			100	53.76		ug/L		54	29 - 110		
Pyrene			100	87.54		ug/L		88	48 - 127		
Pyridine			200	31.54		ug/L		16	10 - 110		
1,2,4,5-Tetrachlorobenzene			100	68.01		ug/L		68	36 - 110		
2,3,4,6-Tetrachlorophenol			100	95.95		ug/L		96	33 - 134		
2,4,5-Trichlorophenol			100	96.91		ug/L		97	35 - 133		
2,4,6-Trichlorophenol			100	91.85		ug/L		92	28 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*66*		*39 - 118*
2-Fluorophenol (Surr)	*61*		*25 - 110*
Nitrobenzene-d5 (Surr)	*68*		*45 - 129*
Phenol-d5 (Surr)	*53*		*21 - 110*
Terphenyl-d14 (Surr)	*84*		*12 - 144*
2,4,6-Tribromophenol (Surr)	*90*		*27 - 136*

Lab Sample ID: LCSD 310-440593/3-A
Matrix: Water
Analysis Batch: 440651

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 440593

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			100	64.42		ug/L		64	43 - 110	6	35
Acenaphthylene			100	69.96		ug/L		70	40 - 110	8	35
Acetophenone			100	73.38		ug/L		73	48 - 119	10	35
Anthracene			100	79.64		ug/L		80	51 - 120	6	35
Benzo[a]anthracene			100	75.03		ug/L		75	51 - 123	8	35
Benzo[a]pyrene			100	74.77		ug/L		75	48 - 125	6	35
Benzo[b]fluoranthene			100	75.26		ug/L		75	49 - 129	7	35
Benzo[g,h,i]perylene			100	73.71		ug/L		74	43 - 139	2	35
Benzo[k]fluoranthene			100	79.24		ug/L		79	47 - 130	6	35
Benzyl alcohol			100	97.68		ug/L		98	39 - 128	6	35
Bis(2-chloroethoxy)methane			100	67.54		ug/L		68	48 - 121	11	35
Bis(2-chloroethyl)ether			100	61.51		ug/L		62	43 - 123	9	35
bis (2-chloroisopropyl) ether			100	56.22		ug/L		56	34 - 123	12	35
Bis(2-ethylhexyl) phthalate			100	84.94		ug/L		85	43 - 143	15	35
4-Bromophenyl phenyl ether			100	78.93		ug/L		79	45 - 119	11	35
Butyl benzyl phthalate			100	79.37		ug/L		79	46 - 135	15	35
4-Chloroaniline			100	111.3		ug/L		111	21 - 139	7	35
4-Chloro-3-methylphenol			100	85.75		ug/L		86	49 - 130	9	35
2-Chloronaphthalene			100	66.42		ug/L		66	37 - 110	6	35
2-Chlorophenol			100	78.04		ug/L		78	44 - 117	7	35
4-Chlorophenyl phenyl ether			100	69.51		ug/L		70	44 - 116	9	35
Chrysene			100	77.24		ug/L		77	51 - 125	7	35
Dibenzo(a,h)anthracene			100	77.13		ug/L		77	38 - 149	0	35
Dibenzofuran			100	69.47		ug/L		69	45 - 112	10	35
2,4-Dichlorophenol			100	82.97		ug/L		83	41 - 124	7	35
2,6-Dichlorophenol			100	78.19		ug/L		78	30 - 130	7	35
Diethyl phthalate			100	73.48		ug/L		73	43 - 135	11	35

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 310-440593/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 440651
Prep Batch: 440593

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol			100	77.79		ug/L		78	31 - 142	6	35
Dimethyl phthalate			100	76.40		ug/L		76	43 - 129	11	35
Di-n-butyl phthalate			100	82.72		ug/L		83	50 - 133	8	35
1,3-Dinitrobenzene			100	93.26		ug/L		93	45 - 138	13	35
4,6-Dinitro-2-methylphenol			200	194.8		ug/L		97	22 - 143	7	35
2,4-Dinitrophenol			200	210.8		ug/L		105	10 - 138	11	35
2,4-Dinitrotoluene			100	83.88		ug/L		84	47 - 137	10	35
2,6-Dinitrotoluene			100	83.96		ug/L		84	51 - 130	12	35
Di-n-octyl phthalate			100	84.85		ug/L		85	34 - 150	16	35
Fluoranthene			100	80.12		ug/L		80	47 - 128	1	35
Fluorene			100	68.65		ug/L		69	45 - 119	9	35
Hexachlorobenzene			100	83.98		ug/L		84	48 - 119	7	35
Hexachlorobutadiene			100	61.33		ug/L		61	32 - 110	3	35
Hexachlorocyclopentadiene			100	46.86		ug/L		47	10 - 110	4	35
Hexachloroethane			100	50.11		ug/L		50	31 - 110	8	35
Indeno[1,2,3-cd]pyrene			100	73.50		ug/L		73	37 - 150	2	35
Isophorone			100	73.34		ug/L		73	50 - 125	10	35
2-Methylnaphthalene			100	64.80		ug/L		65	33 - 110	9	35
2-Methylphenol			100	75.82		ug/L		76	47 - 118	8	35
Methylphenol, 3 & 4			100	77.02		ug/L		77	46 - 117	6	35
2-Nitroaniline			100	74.88		ug/L		75	50 - 135	9	35
3-Nitroaniline			100	88.33		ug/L		88	42 - 139	5	35
4-Nitroaniline			100	69.28		ug/L		69	31 - 145	7	35
Nitrobenzene			100	70.82		ug/L		71	47 - 116	6	35
2-Nitrophenol			100	82.22		ug/L		82	41 - 129	7	35
4-Nitrophenol			200	111.2		ug/L		56	18 - 110	8	35
N-Nitrosodimethylamine			100	55.60		ug/L		56	37 - 110	1	35
N-Nitrosodi-n-propylamine			100	67.20		ug/L		67	45 - 130	11	35
N-Nitrosodiphenylamine			100	75.01		ug/L		75	49 - 121	12	35
Pentachlorophenol			200	186.8		ug/L		93	26 - 133	9	35
Phenanthrene			100	75.13		ug/L		75	51 - 117	7	35
Phenol			100	51.43		ug/L		51	29 - 110	4	35
Pyrene			100	75.83		ug/L		76	48 - 127	14	35
Pyridine			200	44.59		ug/L		22	10 - 110	34	35
1,2,4,5-Tetrachlorobenzene			100	63.54		ug/L		64	36 - 110	7	35
2,3,4,6-Tetrachlorophenol			100	85.85		ug/L		86	33 - 134	11	35
2,4,5-Trichlorophenol			100	87.61		ug/L		88	35 - 133	10	35
2,4,6-Trichlorophenol			100	83.74		ug/L		84	28 - 139	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*68*		*39 - 118*
2-Fluorophenol (Surr)	*66*		*25 - 110*
Nitrobenzene-d5 (Surr)	*70*		*45 - 129*
Phenol-d5 (Surr)	*58*		*21 - 110*
Terphenyl-d14 (Surr)	*81*		*12 - 144*
2,4,6-Tribromophenol (Surr)	*90*		*27 - 136*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-440671/1-A
Matrix: Water
Analysis Batch: 440963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0202		0.0916	0.0202	ug/L		11/22/24 11:33	11/26/24 15:55	1
alpha-BHC	<0.00916		0.0916	0.00916	ug/L		11/22/24 11:33	11/26/24 15:55	1
beta-BHC	<0.0385		0.0916	0.0385	ug/L		11/22/24 11:33	11/26/24 15:55	1
gamma-BHC (Lindane)	<0.00916		0.0916	0.00916	ug/L		11/22/24 11:33	11/26/24 15:55	1
Chlordane (technical)	<0.357		1.83	0.357	ug/L		11/22/24 11:33	11/26/24 15:55	1
delta-BHC	<0.0293		0.0916	0.0293	ug/L		11/22/24 11:33	11/26/24 15:55	1
Dieldrin	<0.0192		0.0916	0.0192	ug/L		11/22/24 11:33	11/26/24 15:55	1
4,4'-DDD	<0.0229		0.0916	0.0229	ug/L		11/22/24 11:33	11/26/24 15:55	1
4,4'-DDE	<0.0275		0.0916	0.0275	ug/L		11/22/24 11:33	11/26/24 15:55	1
4,4'-DDT	<0.0183		0.0916	0.0183	ug/L		11/22/24 11:33	11/26/24 15:55	1
Endosulfan I	<0.0257		0.0916	0.0257	ug/L		11/22/24 11:33	11/26/24 15:55	1
Endosulfan II	<0.0238		0.0916	0.0238	ug/L		11/22/24 11:33	11/26/24 15:55	1
Endosulfan sulfate	<0.0165		0.0916	0.0165	ug/L		11/22/24 11:33	11/26/24 15:55	1
Endrin	<0.0257		0.0916	0.0257	ug/L		11/22/24 11:33	11/26/24 15:55	1
Endrin aldehyde	<0.0247		0.0916	0.0247	ug/L		11/22/24 11:33	11/26/24 15:55	1
Heptachlor	<0.0211		0.0916	0.0211	ug/L		11/22/24 11:33	11/26/24 15:55	1
Heptachlor epoxide	<0.0293		0.0916	0.0293	ug/L		11/22/24 11:33	11/26/24 15:55	1
Methoxychlor	<0.0293		0.0916	0.0293	ug/L		11/22/24 11:33	11/26/24 15:55	1
Toxaphene	<0.916		1.83	0.916	ug/L		11/22/24 11:33	11/26/24 15:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*169*	*S1+*	*10 - 136*	*11/22/24 11:33*	*11/26/24 15:55*	*1*
Tetrachloro-m-xylene (Surr)	*155*	*S1+*	*10 - 130*	*11/22/24 11:33*	*11/26/24 15:55*	*1*

Lab Sample ID: LCS 310-440671/5-A
Matrix: Water
Analysis Batch: 441135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	2.60	5.584	*+	ug/L		214	13 - 120
alpha-BHC	2.60	5.552	*+	ug/L		213	36 - 127
beta-BHC	2.60	5.264	*+	ug/L		202	37 - 136
gamma-BHC (Lindane)	2.60	5.841	*+	ug/L		224	36 - 132
delta-BHC	2.60	5.524	*+	ug/L		212	33 - 134
Dieldrin	2.60	5.523	*+	ug/L		212	39 - 130
4,4'-DDD	2.60	5.123	*+	ug/L		197	36 - 149
4,4'-DDE	2.60	5.074	*+	ug/L		195	34 - 130
4,4'-DDT	2.60	5.104	*+	ug/L		196	23 - 150
Endosulfan I	2.60	5.065	*+	ug/L		194	10 - 120
Endosulfan II	2.60	4.945	*+	ug/L		190	14 - 120
Endosulfan sulfate	2.60	5.495	*+	ug/L		211	36 - 147
Endrin	2.60	5.976	*+	ug/L		229	39 - 140
Endrin aldehyde	2.60	4.351	*+	ug/L		167	32 - 137
Heptachlor	2.60	5.583	*+	ug/L		214	27 - 120
Heptachlor epoxide	2.60	5.853	*+	ug/L		225	38 - 133
Methoxychlor	2.60	5.593	*+	ug/L		215	10 - 150

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 310-440671/5-A
Matrix: Water
Analysis Batch: 441135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440671

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	233	S1+	10 - 136
Tetrachloro-m-xylene (Surr)	224	S1+	10 - 130

Lab Sample ID: 310-295641-1 MS
Matrix: Wastewater
Analysis Batch: 440963

Client Sample ID: Site 1 Leachate_24_11
Prep Type: Total/NA
Prep Batch: 440671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	<0.0205	*+	2.58	3.040		ug/L		118	13 - 120
alpha-BHC	<0.00933	F1 *+	2.58	3.468	F1	ug/L		134	36 - 127
beta-BHC	<0.0392	*+	2.58	3.083		ug/L		119	37 - 136
gamma-BHC (Lindane)	<0.00933	*+	2.58	3.154		ug/L		122	36 - 132
delta-BHC	<0.0299	*+	2.58	3.123		ug/L		121	33 - 134
Dieldrin	<0.0196	*+	2.58	3.281		ug/L		127	39 - 130
4,4'-DDD	<0.0233	*+	2.58	3.724		ug/L		144	36 - 149
4,4'-DDE	<0.0280	*+	2.58	2.620		ug/L		101	34 - 130
4,4'-DDT	<0.0187	*+	2.58	1.169		ug/L		45	23 - 150
Endosulfan I	<0.0261	*+	2.58	3.016		ug/L		117	10 - 120
Endosulfan II	<0.0243	*+	2.58	2.821	p	ug/L		109	14 - 120
Endosulfan sulfate	<0.0168	*+	2.58	2.925		ug/L		113	36 - 147
Endrin	<0.0261	*+	2.58	2.933		ug/L		114	39 - 140
Endrin aldehyde	<0.0252	*+	2.58	2.702		ug/L		105	32 - 137
Heptachlor	<0.0215	*+	2.58	2.293		ug/L		89	27 - 120
Heptachlor epoxide	<0.0299	*+	2.58	3.447		ug/L		133	38 - 133
Methoxychlor	<0.0299	*+	2.58	0.6910		ug/L		27	10 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	133		10 - 136
Tetrachloro-m-xylene (Surr)	135	S1+	10 - 130

Lab Sample ID: 310-295641-1 MSD
Matrix: Wastewater
Analysis Batch: 440963

Client Sample ID: Site 1 Leachate_24_11
Prep Type: Total/NA
Prep Batch: 440671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	<0.0205	*+	2.62	2.728		ug/L		104	13 - 120	11	35
alpha-BHC	<0.00933	F1 *+	2.62	2.917		ug/L		111	36 - 127	17	35
beta-BHC	<0.0392	*+	2.62	2.594		ug/L		99	37 - 136	17	35
gamma-BHC (Lindane)	<0.00933	*+	2.62	2.640		ug/L		101	36 - 132	18	35
delta-BHC	<0.0299	*+	2.62	2.637		ug/L		101	33 - 134	17	35
Dieldrin	<0.0196	*+	2.62	2.835		ug/L		108	39 - 130	15	35
4,4'-DDD	<0.0233	*+	2.62	3.252		ug/L		124	36 - 149	14	35
4,4'-DDE	<0.0280	*+	2.62	2.412		ug/L		92	34 - 130	8	35
4,4'-DDT	<0.0187	*+	2.62	1.095		ug/L		42	23 - 150	7	35
Endosulfan I	<0.0261	*+	2.62	2.588		ug/L		99	10 - 120	15	35
Endosulfan II	<0.0243	*+	2.62	2.409	p	ug/L		92	14 - 120	16	35
Endosulfan sulfate	<0.0168	*+	2.62	2.470		ug/L		94	36 - 147	17	35
Endrin	<0.0261	*+	2.62	2.479		ug/L		95	39 - 140	17	35

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 310-295641-1 MSD
Matrix: Wastewater
Analysis Batch: 440963

Client Sample ID: Site 1 Leachate_24_11
Prep Type: Total/NA
Prep Batch: 440671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin aldehyde	<0.0252	*+	2.62	2.312		ug/L		88	32 - 137	16	35
Heptachlor	<0.0215	*+	2.62	1.986		ug/L		76	27 - 120	14	35
Heptachlor epoxide	<0.0299	*+	2.62	2.946		ug/L		113	38 - 133	16	35
Methoxychlor	<0.0299	*+	2.62	0.5891	p	ug/L		23	10 - 150	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*114*		*10 - 136*
Tetrachloro-m-xylene (Surr)	*121*		*10 - 130*

Lab Sample ID: MB 310-440836/1-A
Matrix: Water
Analysis Batch: 440963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.00770		0.0350	0.00770	ug/L		11/25/24 12:07	11/26/24 12:28	1
alpha-BHC	<0.00350		0.0350	0.00350	ug/L		11/25/24 12:07	11/26/24 12:28	1
beta-BHC	<0.0147		0.0350	0.0147	ug/L		11/25/24 12:07	11/26/24 12:28	1
gamma-BHC (Lindane)	<0.00350		0.0350	0.00350	ug/L		11/25/24 12:07	11/26/24 12:28	1
Chlordane (technical)	<0.137		0.700	0.137	ug/L		11/25/24 12:07	11/26/24 12:28	1
delta-BHC	<0.0112		0.0350	0.0112	ug/L		11/25/24 12:07	11/26/24 12:28	1
Dieldrin	<0.00735		0.0350	0.00735	ug/L		11/25/24 12:07	11/26/24 12:28	1
4,4'-DDD	<0.00875		0.0350	0.00875	ug/L		11/25/24 12:07	11/26/24 12:28	1
4,4'-DDE	<0.0105		0.0350	0.0105	ug/L		11/25/24 12:07	11/26/24 12:28	1
4,4'-DDT	<0.00700		0.0350	0.00700	ug/L		11/25/24 12:07	11/26/24 12:28	1
Endosulfan I	<0.00980		0.0350	0.00980	ug/L		11/25/24 12:07	11/26/24 12:28	1
Endosulfan II	<0.00910		0.0350	0.00910	ug/L		11/25/24 12:07	11/26/24 12:28	1
Endosulfan sulfate	<0.00630		0.0350	0.00630	ug/L		11/25/24 12:07	11/26/24 12:28	1
Endrin	<0.00980		0.0350	0.00980	ug/L		11/25/24 12:07	11/26/24 12:28	1
Endrin aldehyde	<0.00945		0.0350	0.00945	ug/L		11/25/24 12:07	11/26/24 12:28	1
Heptachlor	<0.00805		0.0350	0.00805	ug/L		11/25/24 12:07	11/26/24 12:28	1
Heptachlor epoxide	<0.0112		0.0350	0.0112	ug/L		11/25/24 12:07	11/26/24 12:28	1
Methoxychlor	<0.0112		0.0350	0.0112	ug/L		11/25/24 12:07	11/26/24 12:28	1
Toxaphene	<0.350		0.700	0.350	ug/L		11/25/24 12:07	11/26/24 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*120*		*10 - 136*	*11/25/24 12:07*	*11/26/24 12:28*	*1*
Tetrachloro-m-xylene (Surr)	*136*	*S1+*	*10 - 130*	*11/25/24 12:07*	*11/26/24 12:28*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 310-440671/1-A
Matrix: Water
Analysis Batch: 440964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.751		1.83	0.751	ug/L		11/22/24 11:33	11/26/24 15:55	1
PCB-1221	<0.751		1.83	0.751	ug/L		11/22/24 11:33	11/26/24 15:55	1
PCB-1232	<0.751		1.83	0.751	ug/L		11/22/24 11:33	11/26/24 15:55	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 310-440671/1-A
Matrix: Water
Analysis Batch: 440964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.751		1.83	0.751	ug/L		11/22/24 11:33	11/26/24 15:55	1
PCB-1248	<0.632		1.83	0.632	ug/L		11/22/24 11:33	11/26/24 15:55	1
PCB-1254	<0.632		1.83	0.632	ug/L		11/22/24 11:33	11/26/24 15:55	1
PCB-1260	<0.632		1.83	0.632	ug/L		11/22/24 11:33	11/26/24 15:55	1
PCB-1268	<0.632		1.83	0.632	ug/L		11/22/24 11:33	11/26/24 15:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*169*	*S1+*	*10 - 136*	*11/22/24 11:33*	*11/26/24 15:55*	*1*
Tetrachloro-m-xylene (Surr)	*155*	*S1+*	*10 - 130*	*11/22/24 11:33*	*11/26/24 15:55*	*1*

Lab Sample ID: LCS 310-440671/4-A
Matrix: Water
Analysis Batch: 441136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440671

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			25.8	60.36	*+	ug/L		234	30 - 133		
PCB-1260			25.8	47.02	*+	ug/L		182	31 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*230*	*S1+*	*10 - 136*
Tetrachloro-m-xylene (Surr)	*216*	*S1+*	*10 - 130*

Lab Sample ID: 310-295591-M-1-B MS
Matrix: Water
Analysis Batch: 441136

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 440671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	<0.742	F1 *+	26.2	45.70	F1	ug/L		174	30 - 133		
PCB-1260	<0.624	*+	26.2	14.86		ug/L		57	31 - 133		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*202*	*S1+*	*10 - 136*
Tetrachloro-m-xylene (Surr)	*190*	*S1+*	*10 - 130*

Lab Sample ID: 310-295591-M-1-C MSD
Matrix: Water
Analysis Batch: 440964

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 440671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.742	F1 *+	25.8	51.97	F1	ug/L		202	30 - 133	NC	35
PCB-1260	<0.624	*+	25.8	17.40		ug/L		68	31 - 133	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*238*	*S1+*	*10 - 136*
Tetrachloro-m-xylene (Surr)	*225*	*S1+*	*10 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: LB3 500-796532/1-C
Matrix: Water
Analysis Batch: 797161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 796930

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<30.7		100	30.7	ug/L		11/25/24 11:58	11/26/24 16:15	1
Silvex (2,4,5-TP)	<8.34		100	8.34	ug/L		11/25/24 11:58	11/26/24 16:15	1
2,4,5-T	<14.4		100	14.4	ug/L		11/25/24 11:58	11/26/24 16:15	1

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*64*		*25 - 130*	*11/25/24 11:58*	*11/26/24 16:15*	*1*

Lab Sample ID: MB 500-796930/1-A
Matrix: Water
Analysis Batch: 797161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 796930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.307		1.00	0.307	ug/L		11/25/24 11:58	11/26/24 15:02	1
Silvex (2,4,5-TP)	<0.0834		1.00	0.0834	ug/L		11/25/24 11:58	11/26/24 15:02	1
2,4,5-T	<0.144		1.00	0.144	ug/L		11/25/24 11:58	11/26/24 15:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*65*		*25 - 130*	*11/25/24 11:58*	*11/26/24 15:02*	*1*

Lab Sample ID: LCS 500-796930/2-A
Matrix: Water
Analysis Batch: 797161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 796930

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			10.1	8.371		ug/L		83	30 - 115		
Silvex (2,4,5-TP)			2.50	2.045		ug/L		82	32 - 115		
2,4,5-T			2.53	2.116		ug/L		84	30 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*75*		*25 - 130*

Lab Sample ID: LCSD 500-796930/3-A
Matrix: Water
Analysis Batch: 797161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 796930

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			10.1	8.629		ug/L		86	30 - 115	3	20
Silvex (2,4,5-TP)			2.50	2.173		ug/L		87	32 - 115	6	20
2,4,5-T			2.53	2.283		ug/L		90	30 - 115	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCAA	*79*		*25 - 130*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 500-260071-H-1-D MS
Matrix: Water
Analysis Batch: 797161

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 796930

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	<30.7		1010	693.9		ug/L		69	30 - 115
Silvex (2,4,5-TP)	<8.34		250	168.6		ug/L		67	32 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCAA	*71*		*25 - 130*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-440572/1-A
Matrix: Water
Analysis Batch: 440930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000530		0.00200	0.000530	mg/L		11/22/24 09:30	11/25/24 15:13	1
Barium	<0.000660		0.00200	0.000660	mg/L		11/22/24 09:30	11/25/24 15:13	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/22/24 09:30	11/25/24 15:13	1
Chromium	<0.00120		0.00500	0.00120	mg/L		11/22/24 09:30	11/25/24 15:13	1
Copper	<0.00180		0.00500	0.00180	mg/L		11/22/24 09:30	11/25/24 15:13	1
Iron	<0.0360		0.100	0.0360	mg/L		11/22/24 09:30	11/25/24 15:13	1
Lead	<0.000260		0.000500	0.000260	mg/L		11/22/24 09:30	11/25/24 15:13	1
Magnesium	<0.150		0.500	0.150	mg/L		11/22/24 09:30	11/25/24 15:13	1
Nickel	<0.00210		0.00500	0.00210	mg/L		11/22/24 09:30	11/25/24 15:13	1
Potassium	<0.150		0.500	0.150	mg/L		11/22/24 09:30	11/25/24 15:13	1
Selenium	<0.00140		0.00500	0.00140	mg/L		11/22/24 09:30	11/25/24 15:13	1
Silver	<0.000500		0.00100	0.000500	mg/L		11/22/24 09:30	11/25/24 15:13	1
Zinc	<0.00970		0.0200	0.00970	mg/L		11/22/24 09:30	11/25/24 15:13	1

Lab Sample ID: LCS 310-440572/2-A
Matrix: Water
Analysis Batch: 440930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2025		mg/L		101	80 - 120
Barium	0.100	0.1018		mg/L		102	80 - 120
Cadmium	0.100	0.09895		mg/L		99	80 - 120
Chromium	0.100	0.1013		mg/L		101	80 - 120
Copper	0.200	0.2003		mg/L		100	80 - 120
Iron	0.200	0.2035		mg/L		102	80 - 120
Lead	0.200	0.1991		mg/L		100	80 - 120
Magnesium	2.00	2.000		mg/L		100	80 - 120
Nickel	0.200	0.2032		mg/L		102	80 - 120
Potassium	2.00	1.985		mg/L		99	80 - 120
Selenium	0.400	0.3901		mg/L		98	80 - 120
Silver	0.100	0.1144		mg/L		114	80 - 120
Zinc	0.200	0.1930		mg/L		97	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-295485-A-4-B DU
Matrix: Water
Analysis Batch: 440930

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 440572

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.000530		<0.000530		mg/L		NC	20
Barium	0.0171		0.01727		mg/L		0.9	20
Cadmium	<0.000100		<0.000100		mg/L		NC	20
Chromium	<0.00120		<0.00120		mg/L		NC	20
Copper	<0.00180		<0.00180		mg/L		NC	20
Iron	2.91		2.995		mg/L		3	20
Lead	<0.000260		<0.000260		mg/L		NC	20
Magnesium	16.3		16.34		mg/L		0.2	20
Nickel	<0.00210		<0.00210		mg/L		NC	20
Potassium	3.59		3.674		mg/L		2	20
Selenium	<0.00140		<0.00140		mg/L		NC	20
Silver	<0.000500		<0.000500		mg/L		NC	20
Zinc	<0.00970		<0.00970		mg/L		NC	20

Lab Sample ID: 310-295109-A-1-B MS
Matrix: Water
Analysis Batch: 440930

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 440572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.000530		0.200	0.2110		mg/L		105	75 - 125
Barium	0.160		0.100	0.2733		mg/L		113	75 - 125
Cadmium	<0.000100		0.100	0.1048		mg/L		105	75 - 125
Chromium	<0.00120		0.100	0.1042		mg/L		104	75 - 125
Copper	<0.00180		0.200	0.2055		mg/L		103	75 - 125
Iron	<0.0360		0.200	0.2086		mg/L		104	75 - 125
Lead	<0.000260		0.200	0.2034		mg/L		102	75 - 125
Magnesium	26.3		2.00	28.20	4	mg/L		93	75 - 125
Nickel	<0.00210		0.200	0.2021		mg/L		101	75 - 125
Potassium	2.66		2.00	4.617		mg/L		98	75 - 125
Selenium	0.00140	J	0.400	0.4014		mg/L		100	75 - 125
Silver	<0.000500		0.100	0.1172		mg/L		117	75 - 125
Zinc	<0.00970		0.200	0.2048		mg/L		102	75 - 125

Lab Sample ID: 310-295109-A-1-C MSD
Matrix: Water
Analysis Batch: 440930

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 440572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<0.000530		0.200	0.2097		mg/L		105	75 - 125	1	20
Barium	0.160		0.100	0.2725		mg/L		112	75 - 125	0	20
Cadmium	<0.000100		0.100	0.1046		mg/L		105	75 - 125	0	20
Chromium	<0.00120		0.100	0.1029		mg/L		103	75 - 125	1	20
Copper	<0.00180		0.200	0.2027		mg/L		101	75 - 125	1	20
Iron	<0.0360		0.200	0.2051		mg/L		103	75 - 125	2	20
Lead	<0.000260		0.200	0.2052		mg/L		103	75 - 125	1	20
Magnesium	26.3		2.00	28.49	4	mg/L		108	75 - 125	1	20
Nickel	<0.00210		0.200	0.2026		mg/L		101	75 - 125	0	20
Potassium	2.66		2.00	4.608		mg/L		98	75 - 125	0	20
Selenium	0.00140	J	0.400	0.4087		mg/L		102	75 - 125	2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-295109-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 440930 — **Prep Batch: 440572**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	<0.000500		0.100	0.1152		mg/L		115	75 - 125	2	20
Zinc	<0.00970		0.200	0.2022		mg/L		101	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-440677/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 441154 — **Prep Batch: 440677**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/26/24 11:00	11/27/24 09:26	1

Lab Sample ID: LCS 310-440677/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 441154 — **Prep Batch: 440677**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001605		mg/L		96	80 - 120

Lab Sample ID: 310-295099-A-5-D MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 441154 — **Prep Batch: 440677**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000110		0.00167	0.001609		mg/L		97	80 - 120

Lab Sample ID: 310-295099-A-5-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 441154 — **Prep Batch: 440677**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000110		0.00167	0.001617		mg/L		97	80 - 120	0	20

Method: 2540E - Solids, Volatile and Fixed (VS)

Lab Sample ID: MB 310-440612/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440612

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	<50.0		50.0	50.0	mg/L			11/21/24 10:46	1
Fixed Solids	<50.0		50.0	50.0	mg/L			11/21/24 10:46	1

Lab Sample ID: 310-295641-1 DU — **Client Sample ID: Site 1 Leachate_24_11**
Matrix: Wastewater — **Prep Type: Total/NA**
Analysis Batch: 440612

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Volatile Solids	850		1040		mg/L		20	35
Fixed Solids	2990		2930		mg/L		2	35

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-441432/1-A
Matrix: Water
Analysis Batch: 441444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 441432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.210		0.500	0.210	mg/L		12/03/24 15:56	12/03/24 23:23	1

Lab Sample ID: LCS 310-441432/2-A
Matrix: Water
Analysis Batch: 441444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 441432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	4.00	4.132		mg/L		103	90 - 110

Lab Sample ID: 310-295744-B-1-C MS
Matrix: Water
Analysis Batch: 441444

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 441432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.288	J	4.00	3.996		mg/L		93	90 - 110

Lab Sample ID: 310-295744-B-1-D MSD
Matrix: Water
Analysis Batch: 441444

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 441432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	0.288	J	4.00	4.567		mg/L		107	90 - 110	13	14

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 310-440589/1-A
Matrix: Water
Analysis Batch: 440732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440589

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.570		1.00	0.570	mg/L		11/22/24 05:35	11/22/24 18:00	1

Lab Sample ID: LCS 310-440589/2-A
Matrix: Water
Analysis Batch: 440732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	3.826		mg/L		95	90 - 110

Lab Sample ID: 310-295748-A-1-B MS
Matrix: Water
Analysis Batch: 440732

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 440589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	9.52	F1	4.01	13.40		mg/L		97	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 310-295748-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440732 — **Prep Batch: 440589**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	9.52	F1	4.01	14.23	F1	mg/L		117	90 - 110	6	27

Method: 365.1 - Phosphorus, Ortho

Lab Sample ID: MB 310-440431/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 440438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	<0.0300		0.100	0.0300	mg/L			11/20/24 20:39	1

Lab Sample ID: LCS 310-440431/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 440438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Orthophosphate as P	1.39	1.478		mg/L		106	90 - 110

Lab Sample ID: 310-295641-1 MS — **Client Sample ID: Site 1 Leachate_24_11**
Matrix: Wastewater — **Prep Type: Dissolved**
Analysis Batch: 440438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Orthophosphate as P	0.502		0.501	0.9997		mg/L		99	90 - 110

Lab Sample ID: 310-295641-1 MSD — **Client Sample ID: Site 1 Leachate_24_11**
Matrix: Wastewater — **Prep Type: Dissolved**
Analysis Batch: 440438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Orthophosphate as P	0.502		0.501	1.015		mg/L		102	90 - 110	1	25

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 310-440885/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440900 — **Prep Batch: 440885**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.0670		0.100	0.0670	mg/L		11/25/24 16:03	11/25/24 22:50	1
Phosphorus as PO4	<0.210		0.310	0.210	mg/L		11/25/24 16:03	11/25/24 22:50	1

Lab Sample ID: LCS 310-440885/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440900 — **Prep Batch: 440885**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	1.00	1.080		mg/L		108	90 - 110

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 310-295678-B-2-D MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440900 — **Prep Batch: 440885**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	0.223		1.00	1.227		mg/L		100	90 - 110

Lab Sample ID: 310-295678-B-2-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440900 — **Prep Batch: 440885**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus as P	0.223		1.00	1.280		mg/L		106	90 - 110	4	18

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 310-440650/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440744 — **Prep Batch: 440650**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.00350		0.0100	0.00350	mg/L		11/22/24 10:49	11/22/24 23:13	1

Lab Sample ID: LCS 310-440650/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440744 — **Prep Batch: 440650**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.2016		mg/L		101	90 - 110

Lab Sample ID: 310-295678-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440744 — **Prep Batch: 440650**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.00350	F1	0.200	0.1048	F1	mg/L		52	60 - 130

Lab Sample ID: 310-295678-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 440744 — **Prep Batch: 440650**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.00350	F1	0.200	0.08689	F1	mg/L		43	60 - 130	19	35

Method: 9040C - pH

Lab Sample ID: 310-295641-1 DU — **Client Sample ID: Site 1 Leachate_24_11**
Matrix: Wastewater — **Prep Type: Total/NA**
Analysis Batch: 440434

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.98	HF	6.990		SU		0.1	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-440709/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 440709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.70		5.00	3.70	mg/L			11/22/24 14:23	1

Lab Sample ID: LCS 310-440709/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 440709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	107.0		mg/L		107	81 - 116

Lab Sample ID: 310-295877-B-2 DU
Client Sample ID: Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 440709

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	372		334.0		mg/L		11	35

Method: SM 2540B - Solids, Total

Lab Sample ID: MB 310-440518/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 440518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	<45.0		50.0	45.0	mg/L			11/21/24 10:46	1

Lab Sample ID: LCS 310-440518/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 440518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Solids	1000	1040		mg/L		104	88 - 116

Lab Sample ID: 310-295641-1 DU
Client Sample ID: Site 1 Leachate_24_11
Matrix: Wastewater
Prep Type: Total/NA
Analysis Batch: 440518

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	3840		3970		mg/L		4	26

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-440734/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 440734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<42.0		50.0	42.0	mg/L			11/22/24 18:18	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 310-440734/2
Matrix: Water
Analysis Batch: 440734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1000		mg/L		100	88 - 110

Lab Sample ID: 310-295641-1 DU
Matrix: Wastewater
Analysis Batch: 440734

Client Sample ID: Site 1 Leachate_24_11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3390		3310		mg/L		2	16

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 310-440432/2-A
Matrix: Water
Analysis Batch: 440437

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (VI)	<0.0100		0.0200	0.0100	mg/L			11/20/24 17:57	1

Lab Sample ID: LCS 310-440432/1-A
Matrix: Water
Analysis Batch: 440437

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium (VI)	0.401	0.3861		mg/L		96	90 - 110

Lab Sample ID: 310-295641-1 MS
Matrix: Wastewater
Analysis Batch: 440437

Client Sample ID: Site 1 Leachate_24_11
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium (VI)	<0.0100	F1	0.100	<0.0100	F1	mg/L		0	15 - 149

Lab Sample ID: 310-295641-1 MSD
Matrix: Wastewater
Analysis Batch: 440437

Client Sample ID: Site 1 Leachate_24_11
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium (VI)	<0.0100	F1	0.100	<0.0100	F1	mg/L		0	15 - 149	NC	35

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 310-441041/16
Matrix: Water
Analysis Batch: 441041

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.40		2.00	1.40	mg/L			11/26/24 15:46	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 310-441041/17
Matrix: Water
Analysis Batch: 441041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	10.15		mg/L		101	90 - 110		

Lab Sample ID: 310-295603-A-1 MS ^100
Matrix: Water
Analysis Batch: 441041

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1980	F1	1000	2682	F1	mg/L		70	73 - 110		

Lab Sample ID: 310-295603-A-1 MSD ^100
Matrix: Water
Analysis Batch: 441041

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1980	F1	1000	2723		mg/L		75	73 - 110	2	14

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 310-440443/1
Matrix: Water
Analysis Batch: 440443

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<3.00		3.00	3.00	mg/L			11/21/24 05:47	1

Lab Sample ID: LCS 310-440443/2
Matrix: Water
Analysis Batch: 440443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbonaceous Biochemical Oxygen Demand			198	223.0		mg/L		113	76 - 126		

Lab Sample ID: 310-295655-G-1 DU
Matrix: Water
Analysis Batch: 440443

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbonaceous Biochemical Oxygen Demand	<3.00			<3.00		mg/L				NC	30

Method: SM 5220D - COD

Lab Sample ID: MB 310-441358/5
Matrix: Water
Analysis Batch: 441358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<4.80		5.00	4.80	mg/L			12/03/24 08:34	1

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 310-441358/33
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 441358

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand			125	128.9		mg/L		103	85 - 110		

Lab Sample ID: 240-215676-D-5 MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 441358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand	<9.60		100	123.4		mg/L		123	83 - 145		

Lab Sample ID: 240-215676-D-5 MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 441358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	<9.60		100	117.3		mg/L		117	83 - 145	5	16

GC/MS VOA

Analysis Batch: 440505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	8260D	
MB 310-440505/5	Method Blank	Total/NA	Water	8260D	
LCS 310-440505/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-440505/7	Lab Control Sample	Total/NA	Water	8260D	
310-295611-B-1 MS	Matrix Spike	Total/NA	Water	8260D	
310-295611-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 441406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	8260D	
MB 310-441406/5	Method Blank	Total/NA	Water	8260D	
LCS 310-441406/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-441406/7	Lab Control Sample	Total/NA	Water	8260D	
310-296206-G-3 MS	Matrix Spike	Total/NA	Water	8260D	
310-296206-G-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 440593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	3510C	
MB 310-440593/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-440593/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-440593/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 440651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	8270E	440593
MB 310-440593/1-A	Method Blank	Total/NA	Water	8270E	440593
LCS 310-440593/2-A	Lab Control Sample	Total/NA	Water	8270E	440593
LCSD 310-440593/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	440593

Analysis Batch: 440695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	8270E	440593
MB 310-440593/1-A	Method Blank	Total/NA	Water	8270E	440593

GC Semi VOA

Prep Batch: 440671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	3511	
MB 310-440671/1-A	Method Blank	Total/NA	Water	3511	
LCS 310-440671/4-A	Lab Control Sample	Total/NA	Water	3511	
LCS 310-440671/5-A	Lab Control Sample	Total/NA	Water	3511	
310-295591-M-1-B MS	Matrix Spike	Total/NA	Water	3511	
310-295591-M-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3511	
310-295641-1 MS	Site 1 Leachate_24_11	Total/NA	Wastewater	3511	
310-295641-1 MSD	Site 1 Leachate_24_11	Total/NA	Wastewater	3511	

GC Semi VOA

Prep Batch: 440836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-440836/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 440963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	8081B	440671
MB 310-440671/1-A	Method Blank	Total/NA	Water	8081B	440671
MB 310-440836/1-A	Method Blank	Total/NA	Water	8081B	440836
310-295641-1 MS	Site 1 Leachate_24_11	Total/NA	Wastewater	8081B	440671
310-295641-1 MSD	Site 1 Leachate_24_11	Total/NA	Wastewater	8081B	440671

Analysis Batch: 440964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	8082A	440671
MB 310-440671/1-A	Method Blank	Total/NA	Water	8082A	440671
310-295591-M-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	8082A	440671

Analysis Batch: 441135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-440671/5-A	Lab Control Sample	Total/NA	Water	8081B	440671

Analysis Batch: 441136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-440671/4-A	Lab Control Sample	Total/NA	Water	8082A	440671
310-295591-M-1-B MS	Matrix Spike	Total/NA	Water	8082A	440671

Leach Batch: 796532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-796532/1-C	Method Blank	Total/NA	Water	1311	
500-260071-H-1-D MS	Matrix Spike	TCLP	Water	1311	

Prep Batch: 796930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	8151A	
LB3 500-796532/1-C	Method Blank	Total/NA	Water	8151A	796532
MB 500-796930/1-A	Method Blank	Total/NA	Water	8151A	
LCS 500-796930/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 500-796930/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
500-260071-H-1-D MS	Matrix Spike	TCLP	Water	8151A	796532

Analysis Batch: 797161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	8151A	796930
LB3 500-796532/1-C	Method Blank	Total/NA	Water	8151A	796930
MB 500-796930/1-A	Method Blank	Total/NA	Water	8151A	796930
LCS 500-796930/2-A	Lab Control Sample	Total/NA	Water	8151A	796930
LCSD 500-796930/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	796930
500-260071-H-1-D MS	Matrix Spike	TCLP	Water	8151A	796930

Metals

Prep Batch: 440572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	3005A	
MB 310-440572/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-440572/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-295109-A-1-B MS	Matrix Spike	Dissolved	Water	3005A	
310-295109-A-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
310-295485-A-4-B DU	Duplicate	Total/NA	Water	3005A	

Prep Batch: 440677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	7470A	
MB 310-440677/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-440677/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-295099-A-5-D MS	Matrix Spike	Dissolved	Water	7470A	
310-295099-A-5-E MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 440930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	6020B	440572
MB 310-440572/1-A	Method Blank	Total/NA	Water	6020B	440572
LCS 310-440572/2-A	Lab Control Sample	Total/NA	Water	6020B	440572
310-295109-A-1-B MS	Matrix Spike	Dissolved	Water	6020B	440572
310-295109-A-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	440572
310-295485-A-4-B DU	Duplicate	Total/NA	Water	6020B	440572

Analysis Batch: 441029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	6020B	440572

Analysis Batch: 441154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	7470A	440677
MB 310-440677/1-A	Method Blank	Total/NA	Water	7470A	440677
LCS 310-440677/2-A	Lab Control Sample	Total/NA	Water	7470A	440677
310-295099-A-5-D MS	Matrix Spike	Dissolved	Water	7470A	440677
310-295099-A-5-E MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	440677

General Chemistry

Filtration Batch: 440431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Dissolved	Wastewater	Filtration	
MB 310-440431/2-A	Method Blank	Dissolved	Water	Filtration	
LCS 310-440431/1-A	Lab Control Sample	Dissolved	Water	Filtration	
310-295641-1 MS	Site 1 Leachate_24_11	Dissolved	Wastewater	Filtration	
310-295641-1 MSD	Site 1 Leachate_24_11	Dissolved	Wastewater	Filtration	

Filtration Batch: 440432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Dissolved	Wastewater	Filtration	
MB 310-440432/2-A	Method Blank	Dissolved	Water	Filtration	
LCS 310-440432/1-A	Lab Control Sample	Dissolved	Water	Filtration	

General Chemistry (Continued)

Filtration Batch: 440432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1 MS	Site 1 Leachate_24_11	Dissolved	Wastewater	Filtration	
310-295641-1 MSD	Site 1 Leachate_24_11	Dissolved	Wastewater	Filtration	

Analysis Batch: 440434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	9040C	
LCS 310-440434/1	Lab Control Sample	Total/NA	Water	9040C	
310-295641-1 DU	Site 1 Leachate_24_11	Total/NA	Wastewater	9040C	

Analysis Batch: 440437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Dissolved	Wastewater	SM 3500 CR B	440432
MB 310-440432/2-A	Method Blank	Dissolved	Water	SM 3500 CR B	440432
LCS 310-440432/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	440432
310-295641-1 MS	Site 1 Leachate_24_11	Dissolved	Wastewater	SM 3500 CR B	440432
310-295641-1 MSD	Site 1 Leachate_24_11	Dissolved	Wastewater	SM 3500 CR B	440432

Analysis Batch: 440438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Dissolved	Wastewater	365.1	440431
MB 310-440431/2-A	Method Blank	Dissolved	Water	365.1	440431
LCS 310-440431/1-A	Lab Control Sample	Dissolved	Water	365.1	440431
310-295641-1 MS	Site 1 Leachate_24_11	Dissolved	Wastewater	365.1	440431
310-295641-1 MSD	Site 1 Leachate_24_11	Dissolved	Wastewater	365.1	440431

Analysis Batch: 440443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	SM 5210B	
USB 310-440443/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 310-440443/2	Lab Control Sample	Total/NA	Water	SM 5210B	
310-295655-G-1 DU	Duplicate	Total/NA	Water	SM 5210B	

Analysis Batch: 440518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	SM 2540B	
MB 310-440518/1	Method Blank	Total/NA	Water	SM 2540B	
LCS 310-440518/2	Lab Control Sample	Total/NA	Water	SM 2540B	
310-295641-1 DU	Site 1 Leachate_24_11	Total/NA	Wastewater	SM 2540B	

Prep Batch: 440589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	351.2	
MB 310-440589/1-A	Method Blank	Total/NA	Water	351.2	
LCS 310-440589/2-A	Lab Control Sample	Total/NA	Water	351.2	
310-295748-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	
310-295748-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	

Analysis Batch: 440612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	2540E	
MB 310-440612/1	Method Blank	Total/NA	Water	2540E	

General Chemistry (Continued)

Analysis Batch: 440612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1 DU	Site 1 Leachate_24_11	Total/NA	Wastewater	2540E	

Prep Batch: 440650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	9012B	
MB 310-440650/1-A	Method Blank	Total/NA	Water	9012B	
LCS 310-440650/2-A	Lab Control Sample	Total/NA	Water	9012B	
310-295678-A-1-B MS	Matrix Spike	Total/NA	Water	9012B	
310-295678-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

Analysis Batch: 440709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	I-3765-85	
MB 310-440709/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-440709/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-295877-B-2 DU	Duplicate	Total/NA	Water	I-3765-85	

Analysis Batch: 440732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	351.2	440589
MB 310-440589/1-A	Method Blank	Total/NA	Water	351.2	440589
LCS 310-440589/2-A	Lab Control Sample	Total/NA	Water	351.2	440589
310-295748-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	440589
310-295748-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	440589

Analysis Batch: 440734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	SM 2540C	
MB 310-440734/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-440734/2	Lab Control Sample	Total/NA	Water	SM 2540C	
310-295641-1 DU	Site 1 Leachate_24_11	Total/NA	Wastewater	SM 2540C	

Analysis Batch: 440744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	9012B	440650
MB 310-440650/1-A	Method Blank	Total/NA	Water	9012B	440650
LCS 310-440650/2-A	Lab Control Sample	Total/NA	Water	9012B	440650
310-295678-A-1-B MS	Matrix Spike	Total/NA	Water	9012B	440650
310-295678-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	440650

Analysis Batch: 440854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	353.2	

Prep Batch: 440885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	365.2/365.3/365	
MB 310-440885/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 310-440885/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
310-295678-B-2-D MS	Matrix Spike	Total/NA	Water	365.2/365.3/365	
310-295678-B-2-E MSD	Matrix Spike Duplicate	Total/NA	Water	365.2/365.3/365	

General Chemistry

Analysis Batch: 440900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	365.1	440885
MB 310-440885/1-A	Method Blank	Total/NA	Water	365.1	440885
LCS 310-440885/2-A	Lab Control Sample	Total/NA	Water	365.1	440885
310-295678-B-2-D MS	Matrix Spike	Total/NA	Water	365.1	440885
310-295678-B-2-E MSD	Matrix Spike Duplicate	Total/NA	Water	365.1	440885

Analysis Batch: 441041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	SM 4500 Cl- E	
MB 310-441041/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 310-441041/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
310-295603-A-1 MS ^100	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
310-295603-A-1 MSD ^100	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 441358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	SM 5220D	
MB 310-441358/5	Method Blank	Total/NA	Water	SM 5220D	
LCS 310-441358/33	Lab Control Sample	Total/NA	Water	SM 5220D	
240-215676-D-5 MS	Matrix Spike	Total/NA	Water	SM 5220D	
240-215676-D-5 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220D	

Prep Batch: 441432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	Distill/Ammonia	
MB 310-441432/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 310-441432/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
310-295744-B-1-C MS	Matrix Spike	Total/NA	Water	Distill/Ammonia	
310-295744-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 441444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295641-1	Site 1 Leachate_24_11	Total/NA	Wastewater	350.1	441432
MB 310-441432/1-A	Method Blank	Total/NA	Water	350.1	441432
LCS 310-441432/2-A	Lab Control Sample	Total/NA	Water	350.1	441432
310-295744-B-1-C MS	Matrix Spike	Total/NA	Water	350.1	441432
310-295744-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	441432

Lab Chronicle

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-295641-1
Project/Site: CRLCSWA 1 - Leachate

Client Sample ID: Site 1 Leachate_24_11

Lab Sample ID: 310-295641-1

Date Collected: 11/20/24 09:30

Matrix: Wastewater

Date Received: 11/20/24 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	440505	WSE8	EET CF	11/22/24 05:02
Total/NA	Analysis	8260D		1	441406	WSE8	EET CF	12/04/24 05:59
Total/NA	Prep	3510C			440593	AYK7	EET CF	11/22/24 06:52
Total/NA	Analysis	8270E		1	440695	L0FS	EET CF	11/22/24 14:48
Total/NA	Prep	3510C			440593	AYK7	EET CF	11/22/24 06:52
Total/NA	Analysis	8270E		1	440651	L0FS	EET CF	11/22/24 17:52
Total/NA	Prep	3511			440671	AYK7	EET CF	11/22/24 11:33
Total/NA	Analysis	8081B		1	440963	BW2O	EET CF	11/26/24 16:14
Total/NA	Prep	3511			440671	AYK7	EET CF	11/22/24 11:33
Total/NA	Analysis	8082A		1	440964	BW2O	EET CF	11/26/24 16:14
Total/NA	Prep	8151A			796930	LG	EET CHI	11/25/24 11:58
Total/NA	Analysis	8151A		1	797161	H7CM	EET CHI	11/26/24 20:32
Total/NA	Prep	3005A			440572	F5MW	EET CF	11/22/24 09:30
Total/NA	Analysis	6020B		1	440930	A6US	EET CF	11/25/24 16:40
Total/NA	Prep	3005A			440572	F5MW	EET CF	11/22/24 09:30
Total/NA	Analysis	6020B		4	441029	A6US	EET CF	11/26/24 12:23
Total/NA	Prep	7470A			440677	QTZ5	EET CF	11/26/24 11:00
Total/NA	Analysis	7470A		1	441154	QTZ5	EET CF	11/27/24 10:21
Total/NA	Analysis	2540E		1	440612	DGU1	EET CF	11/21/24 10:46
Total/NA	Prep	Distill/Ammonia			441432	A3GU	EET CF	12/03/24 15:56
Total/NA	Analysis	350.1		37.5	441444	ZJX4	EET CF	12/04/24 00:25
Total/NA	Prep	351.2			440589	W9YR	EET CF	11/22/24 05:35
Total/NA	Analysis	351.2		10	440732	ZJX4	EET CF	11/22/24 18:25
Total/NA	Analysis	353.2		1	440854	HE7K	EET CF	12/04/24 19:26
Dissolved	Filtration	Filtration			440431	ZJX4	EET CF	11/20/24 17:03
Dissolved	Analysis	365.1		1	440438	ZJX4	EET CF	11/20/24 20:40
Total/NA	Prep	365.2/365.3/365			440885	T5AC	EET CF	11/25/24 16:03
Total/NA	Analysis	365.1		1	440900	ZJX4	EET CF	11/25/24 23:00
Total/NA	Prep	9012B			440650	ENB7	EET CF	11/22/24 10:49
Total/NA	Analysis	9012B		1	440744	ZJX4	EET CF	11/22/24 23:22
Total/NA	Analysis	9040C		1	440434	ZJX4	EET CF	11/20/24 18:00
Total/NA	Analysis	I-3765-85		1	440709	HE7K	EET CF	11/22/24 14:23
Total/NA	Analysis	SM 2540B		1	440518	DGU1	EET CF	11/21/24 10:46
Total/NA	Analysis	SM 2540C		1	440734	MDU9	EET CF	11/22/24 18:18
Dissolved	Filtration	Filtration			440432	ZJX4	EET CF	11/20/24 17:05
Dissolved	Analysis	SM 3500 CR B		1	440437	ZJX4	EET CF	11/20/24 17:58
Total/NA	Analysis	SM 4500 Cl- E		20	441041	ENB7	EET CF	11/26/24 15:49
Total/NA	Analysis	SM 5210B		4	440443	W9YR	EET CF	11/21/24 06:18
Total/NA	Analysis	SM 5220D		5	441358	HE7K	EET CF	12/03/24 08:34

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-295641-1
Project/Site: CRLCSWA 1 - Leachate

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540E		Wastewater	Fixed Solids
365.1	365.2/365.3/365	Wastewater	Phosphorus as PO4
8082A	3511	Wastewater	PCB-1268
8260D		Wastewater	1,2,3-Trichlorobenzene
8260D		Wastewater	1,2,4-Trichlorobenzene
8260D		Wastewater	2-Chloroethyl vinyl ether
8260D		Wastewater	Bromobenzene
8260D		Wastewater	Hexane
8260D		Wastewater	p-Isopropyltoluene
8260D		Wastewater	sec-Butylbenzene
8260D		Wastewater	tert-Butylbenzene
8270E	3510C	Wastewater	Benzoic acid
8270E	3510C	Wastewater	Pyridine

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Wastewater	2,4,5-T

Method Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 310-295641-1
Project/Site: CRLCSWA 1 - Leachate

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
8151A	Herbicides (GC)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
2540E	Solids, Volatile and Fixed (VS)	SM	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
353.2	Nitrogen, Nitrate (Calculation)	EPA	EET CF
365.1	Phosphorus, Ortho	EPA	EET CF
365.1	Phosphorus, Total	EPA	EET CF
9012B	Cyanide, Total andor Amenable	SW846	EET CF
9040C	pH	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2540B	Solids, Total	SM	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
SM 3500 CR B	Chromium, Hexavalent	SM	EET CF
SM 4500 Cl- E	Chloride, Total	SM	EET CF
SM 5210B	BOD, 5-Day	SM	EET CF
SM 5220D	COD	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3511	Microextraction of Organic Compounds	SW846	EET CF
365.2/365.3/365	Phosphorus, Total	EPA	EET CF
5030B	Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	EET CHI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF
Filtration	Sample Filtration	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

eurofins | Environment Testing America

310-295641 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: Foth			
City/State: CITY Cedar Rapids	STATE IA	Project:	
Receipt Information			
Date/Time Received: DATE 11-20-24	TIME 1500	Received By: PH	
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No		*If yes:* Cooler ID:	
Multiple Coolers? ☐ Yes ☒ No		*If yes:* Cooler # _____ of _____	
Cooler Custody Seals Present? ☒ Yes ☐ No		*If yes:* Cooler custody seals intact? ☒ Yes ☐ No	
Sample Custody Seals Present? ☐ Yes ☒ No		*If yes:* Sample custody seals intact? ☐ Yes ☐ No	
Trip Blank Present? ☐ Yes ☐ No		*If yes:* Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE			
Thermometer ID: P		Correction Factor (°C): 0	
• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): 1.9		Corrected Temp (°C): 1.9	
• **Sample Container Temperature**			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record

652637

eurofins | Environment Testing America

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: R. Wilming	Site Contact: Randy Gawin	Date: 11/21/24	COC No: —
Company Name: Fath I+E	Tel/Email: gwilming@fath.com	Lab Contact: Connor	Carrier: Eurofins	1 of 1 COCs
Address: 411 6th Ave SE STE 400	Analysis Turnaround Time			Sampler:
City/State/Zip: Cedar Rapids IA 52401	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 319-365-9565	TAT if different from Below _____			Walk-in Client:
Fax: 319-365-9631	☐ 2 weeks			Lab Sampling
Project Name: CRLCSWA 1 - Leachate	☐ 1 week			
Site: Cedar Rapids, IA	☐ 2 days			Job / SDG No
PO # 24C034.00	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)		Sample Specific Notes.
Ste 1 Leachate_24-11	11/20/24	09:30	G	H_2O	18	N	N	See Attached Parameter Sheet	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C): Obs'd: _____ Corr'd _____ Therm ID No. _____		
Relinquished by:	Company: O.A. Tech SVCS	Date/Time: 11/20/24 15:45	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 11-21-24 1500

Chain of Custody

STATE OF IOWA

EXHIBIT B

TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
LARRY J. WILSON, DIRECTOR

Sample ID
Site 1 Leachate_24_11 11/20/24 9:30
PARAMETERS BELOW

SANITARY LANDFILL LEACHATE SAMPLING GUIDELINE 10-26-93

Legend: * = TCLP Test Parameter
Parameters per IAC 103.2(4)

Relenquished
[signature] 11/20/24 10:45

1. Conventional Pollutants

Method of Analysis: EPA SW-846

Carbonaceous Biochemical Oxygen Demand
Chemical Oxygen Demand
Ammonia Nitrogen
Nitrate as NO_3^-
Total Kjeldahl Nitrogen
Chloride
pH
Phosphate (Total)
Phosphorus
Total Dissolved Solids
Total Suspended Solids
Total Volatile Solids

2. Total Metals

Method of Analysis: EPA SW-846

*Arsenic
*Barium
*Cadmium
*Chromium
Chromium +6
Copper
Cyanide
Iron
*Lead
Magnesium
*Mercury
Nickel
Potassium
*Selenium
*Silver
Zinc

3. Volatile Compounds

Method of Analysis: EPA Wastewater Method 624 or EPA SW-846

*Benzene
Bromodichloromethane
Bromoform

5. Polychlorinated Biphenyl Mixtures

Method of Analysis: EPA Wastewater Method 608 or EPA SW-846

Arochlor®-1016
Arochlor®-1221
Arochlor®-1232
Arochlor®-1242
Arochlor®-1248
Arochlor®-1254
Arochlor®-1260

Polychlorinated Biphenyls (PCB's) (Total)

6. Acid Fraction

Method of Analysis: EPA Wastewater Method 625 or EPA SW-846

Benzoic Acid
2-Chlorophenol
4-Chloro-3-Methylphenol (p-chloro-m-cresol)
2,4-Dichlorophenol
2,4-Dimethylphenol (xylenol)
2,4-Dinitrophenol
4,6-Dinitrophenol
4,6-Dinitro-2-Methylphenol
*2-Methylphenol (o-cresol)
*3-Methylphenol (m-cresol)
*4-Methylphenol (p-cresol)
*Cresols (Total)
2-Nitrophenol
4-Nitrophenol
*Pentachlorophenol
*2,4,5-Trichlorophenol
*2,4,6-Trichlorophenol

7. Base/Neutral Fraction

Method of Analysis: EPA Wastewater Method 625 or EPA SW-846

Acenaphthalyene
Acenaphthene
Anthracene
Benz (a) Anthracene
Benzo (a) Pyrene
Benzo (b) Fluoranthene
Benzo (k) Fluoranthene

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax 319-277-2425

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Calhoun, Conner M	Carrier Tracking No(s): N/A	COC No.: 310-78657 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Conner Calhoun@et eurofinsus com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State Program - Iowa		Job #: 310-295641-1
Address: 2417 Bond Street, ,	Due Date Requested: 12/5/2024			
City: University Park	TAT Requested (days): N/A			
State Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: CRLCSWA 1 - Leachate	Project #: 31009776			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

310-295641 COC

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP Default List	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Site 1 Leachate_24_11 (310-295641-1)	11/20/24	09 30 Central	G	Water			X	2	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing North Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central LLC

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time: 11/21/24 1440	Company	Received by: Stephanie Hernandez	Date/Time: 11/22/24 0935	Company: EEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time.	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks. 1.4+1.1

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-295641-1
SDG Number:

Login Number: 295641
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 310-295641-1
SDG Number:

Login Number: 295641
List Number: 2
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 11/22/24 04:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	