SCS ENGINEERS

Transmittal

West Des Moines, IA

PROJECT:	Clinton Co,FY25 Env Comp,IA 27223133.25	DATE:	1/29/2025
SUBJECT:	Clinton County Sanitary Landfill-East, South MSWLF Unit - 23-SDP-01-74P - 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report	TRANSMITTAL ID:	00003
PURPOSE:	For your approval	VIA:	Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Sean Marczewski West Des Moines, IA	SCS Engineers	SMarczewski@scsengineers.com	+1-515-631-6152

TO

NAME	COMPANY	EMAIL	PHONE
Mick Leat United States		mick.leat@dnr.iowa.gov	

REMARKS:

Mick -

Please find for your download the Clinton County Sanitary Landfill-East, South MSWLF Unit 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report. Let us know if you have any questions or comments.

Thanks,

Sean A. Marczewski
Project Professional
SCS Engineers
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Transmittal

DATE: 1/29/2025
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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	1/29/2025	Clinton County Landfill-East, South MSWLF Unit - 23-SDP-01-74P - 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report 01.29.2025.pdf	

COPIES:

Becky Jolly	
Brad Seward	(Clinton County Area Solid Waste Agency)
Semir Omerovic	(SCS Engineers)
Tim Buelow	(SCS Engineers)
Sean Marczewski	(SCS Engineers)

January 29, 2024
File No. 27223133.25

Mr. Mick Leat
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report
Clinton County Sanitary Landfill - East
South MSWLF Unit
Permit No. 23-SDP-01-74P

Dear Mick:

SCS Engineers, on behalf of the Clinton County Area Solid Waste Agency, has completed the required groundwater monitoring and statistical analyses for the South municipal solid waste landfill (MSWLF) unit at the Clinton County Sanitary Landfill–East for the year 2024. Services were performed in general accordance with Iowa Administrative Code (IAC) 567-113 and the current requirements for implementation of the Hydrologic Monitoring System Plan for the South MSWLF unit. Please find enclosed a copy of the 2024 Annual Water Quality Report.

Additionally, an evaluation of the leachate control system and gas monitoring results are included in accordance with IAC 113.7(5)"b"(14) and 113.9(2)"d", respectively. The 2024 Leachate Control System Performance Evaluation Report for the South MSWLF unit and the 2024 Landfill Gas Annual Report for the site are included as appendices to the Annual Water Quality Report.

If you have any questions regarding these reports, please contact Semir Omerovic at (515) 988-3237.

Sincerely,

Semir Omerovic
Technical Associate
SCS Engineers

Timothy C. Buelow, P.E.
Senior Project Advisor
SCS Engineers

SO/TCB

Copies: Mr. Brad Seward, Clinton County Area Solid Waste Agency

2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, And Landfill Gas Annual Report

Clinton County Sanitary Landfill – East South MSWLF Unit
Clinton, Iowa
Solid Waste Permit No. 23-SDP-01-74P

Prepared for:

Clinton County Area Solid Waste Agency

SCS ENGINEERS

27223133.25 | January 29, 2025

1690 All-State Court, Suite 100
West Des Moines, Iowa 50265
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CERTIFICATION

Prepared by: _____ Date: 1/29/2025

Typed: Semir Omerovic

Reviewed by: _____ Date: 1/29/2025

Typed: Timothy C. Buelow, P.E.

Certification page (PE or groundwater scientist signature) **113.10(1)"d"**

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

I hereby certify that this engineering document was 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.

_____ Date: 1/29/2025

Timothy C. Buelow, P.E.

License No. 14445

My license renewal date is December 31, 2025.

Pages or sheets covered by this seal:

All except Appendix B-1.

EXECUTIVE SUMMARY

ES.1 Period of Report Coverage

The period of report coverage is from December 2023 to December 2024 and includes the sampling events summarized in the attached Table 2.

ES.2 Report Priority

The following summarizes report priorities associated with groundwater compliance for the South municipal solid waste landfill unit (South MSWLF unit) at the Clinton County Sanitary Landfill–East (Landfill):

- Department review urgency: None.
- Department review impact on rules schedule: None.
- Actions or activities on hold pending Department review or comment: None.
- Actions and/or permit amendments needed: None.

ES.3 Site Status and Applicable Rules

- Landfill Status: Active
- Types of waste accepted: MSW, C&D, and Special Waste
- Applicable IAC rules: 2009 567-113.10

ES.4 Comments

The following summarizes points of special emphasis:

- Of the 49 total trends evaluated for the source monitoring wells, 30, or greater than 61%, had a Mann-Kendall statistic less than or equal to 0, which indicates a generally stable or decreasing trend.
- An SSI for chromium was indicated in the AZPOC monitoring well MW-29.

ACRONYMS/ABBREVIATIONS

ACM = Assessment of Corrective Measures
C&D = Construction & Demolition
CAMP = Corrective Action Groundwater Monitoring Program
CL = Control Limit - Mean plus Two Standard Deviations
C&D = Construction and Demolition
DNR = Iowa Department of Natural Resources
DO = Dissolved Oxygen
DQR = Double Quantification Rule
GWPS = Groundwater Protection Standard
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LN = Lognormal
MCL = EPA Maximum Contaminant Level
MSW = Municipal Solid Waste
N = Normal
NC = No Change
NM = Not Measured
NP = Non-Parametric
ORP = Oxidation-Reduction Potential
P = Parametric
PL = Prediction Limit
RL = Reporting Limit
SWS = DNR Statewide Standard for a protected groundwater source
SSI = Statistically Significant Increase above background
SSL = Statistically Significant Level above groundwater protection standard
SSS = Site-Specific Standard (Site-Specific GWPS)
UCL = Upper Confidence Limit
VOC = Volatile Organic Compound

1.0 SITE BACKGROUND

1.1 SITE LOCATION

The Landfill property is depicted on **Figure 1**, Approved Monitoring Network. The Landfill property consists of approximately 330 acres located along 220th Street, approximately 5 miles west of Clinton, Iowa and is located within the S ½, NE ¼; E ½, SW ¼; and the SE ¼ of Section 33, in Township 82 North, Range 6 East, in Clinton County, Iowa.

1.2 GEOLOGY AND HYDROGEOLOGY OF THE SITE

Previous hydrologic investigations of the site were conducted by Barker Lemar Engineering Consultants and reported in the document entitled *Hydrogeological Investigation Plan and Report* as part of the June 2006 *Revised 2005 Lateral Expansion Plan* (Doc #40077), and by Indeco, Inc. as reported in the March 1991 document entitled, *Clinton County Area Solid Waste Agency, Clinton County, Iowa, East Site - Soils Exploration, Monitoring Well Construction, and Hydrologic Monitoring System Report* (Doc #3519, cover letter only). Information and excerpts from these reports were compiled to create the summary below.

> *The regional stratigraphy located within the landfill area is Wisconsin age loess consisting of wind deposited silts and clays. The loess is approximately 1 to 30 feet thick and is underlain by Pre-Illinoian age paleosols and glacial tills. The glacial tills are of the Wolf Creek Formation and consist of clays and sandy clays with various amounts of sand and gravel and range in thickness from less than 1 foot up to 75 feet.*
>
> *The landfill lies within the Mississippi River tributary drainage basin. The local watershed contains the northwest branch of Mill Creek on the east side of the landfill, which flows southeast, and Brookside Creek on the west side which also flows southeast (Indeco, 1991).*
>
> *The saturated zones within the stratigraphy of the landfill area consist of the Wisconsin loess, the Late Sangamon paleosol, and the Yarmouth-Sangamon paleosol. The Maquoketa shales underlying the glacial tills act as a confining bed (Indeco, 1991).*

In addition to the above hydrogeological investigations, the data from a 2004 hydrogeological investigation by Barker Lemar Engineering Consultants (*Hydrogeologic Assessment Work Plan,* Doc #40251*)* indicated that similar soils exist within the Lateral Expansion Plan area, and when describing the area "west of the topographic ridge" which is the area of the South MSWLF unit, Barker Lemar reported in the *Revised 2005 Lateral Expansion Plan*:

> *West of this topographic high ridge, the groundwater flow is very similar to the surface drainage patterns and it is apparent that the groundwater is being relieved by the surface drainage features (Indeco, 1991). The groundwater contours beneath the proposed Lateral Expansion Plan area indicate a uniform flow to the south, southwest in the north and central upgradient areas, changing to a southeast direction in the southernmost area.*
>
> *The proposed lateral expansion area consists of a strip of land that abuts the west side of the existing landfill area. Barker Lemar conducted eight borings from which geologic data were obtained. These borings were developed into monitoring wells. During previous studies, the subsurface geology in the existing landfill area was characterized by the generation of eight profiles, four representing conditions at the boundary of the proposed expansion area.*

A review of these profiles indicates that the subsurface conditions within the proposed lateral expansion area are substantially similar to the previous area of study.

Copies of the "previous study" Indeco soil profiles referenced above are provided in Appendix A of the 2019 *Revised Hydrologic Monitoring System Plan*. The following excerpt describes the geology beneath the Lateral Expansion Area and was taken from Appendix 3 of the *Revised 2005 Lateral Expansion Plan* by Barker Lemar.

In both existing and proposed lateral expansion areas, soil profiles indicated similar characteristics. In the flatter-sloped areas, a layer of loess (brown to grayish-brown silt and silty lean clay) approximately 10 - 20 feet thick was encountered. The loess layer thins out in the steeper-sloped areas. Beneath the loess layer, brown, yellowish brown, and reddish brown lean clays with sand and gravels were encountered; which are typically identified as oxidized till on the Barker Lemar profile sheets (Attachment 3, Figures A3-1 through A3-5). This layer varies in thickness from zero to 20 feet thick throughout both the existing area and proposed lateral expansion areas. In general, the oxidized till layer is prevalent in the southern portion of the proposed lateral expansion area; its thickness diminishes toward the north. The boring data from the Indeco study indicates a similar occurrence pattern—nearly all incidences of brown and reddish brown lean clays occurred in the southern portion of the study area.

Both Barker Lemar and Indeco borings indicate a substantial layer of gray-brown to gray lean clay, which has been labeled as transition zone in the Barker Lemar profiles, and which lies beneath the loess and/or oxidized till layers throughout the site. Additionally, in both studies, the deeper borings encountered dark gray-blue silty lean clay with sand and gravel, which are characterized on the Barker Lemar profile sheets as unoxidized till.

Copies of Attachment 3, Figures A3-1 through A3-5 are provided in Appendix A of the 2019 *Revised Hydrologic Monitoring System Plan*. Barker Lemar reported in Appendix 3 of the *Revised 2005 Lateral Expansion Plan* that the water table aquifer was the uppermost aquifer. The following excerpt describes the location of the uppermost aquifer in the soil strata for the *Revised 2005 Lateral Expansion Plan* area and the area east of the 2005 Lateral Expansion Plan (Ravines #5 & #6):

The Indeco report indicates that in the area of study, which is on the east side of the proposed lateral expansion area, the water table aquifer is situated within the strata identified in the Barker Lemar profiles as, loess, oxidized till, and transition zone layers. The Barker Lemar study indicates that these layers continue beneath the proposed lateral expansion area and with minor exceptions, the water table aquifer is beneath the loess layer in the oxidized till and transition zone layers. Similar to the Indeco report, the Barker Lemar data also confirms that the water table aquifer generally follows the topography with a high dome on high ground that drops toward ravines, swales, or gullies. The water table aquifer is the uppermost aquifer throughout the area.

Copies of cross-sections (Drawing Nos. 140-148) from the 1991 Indeco report are included in Appendix A of the 2019 *Revised Hydrologic Monitoring System Plan*.

Historical water levels were reviewed in nested monitoring wells MW-90-10 and MW-90-11 on the east side of the South MSWLF unit. Monitoring well MW-90-10 was installed to a depth of approximately 61 feet below ground surface and monitoring well 90-MW-11 was installed to a depth of approximately 25 feet below ground surface. Both monitoring wells had water during the measurement events, indicating the statement in the *Revised 2005 Lateral Expansion Plan* that the

"water table aquifer is the uppermost aquifer throughout the area" is true throughout most of the site.

However, it appears a perched water-bearing zone is present at depth near the southwest corner of the South MSWLF unit. Soils are generally lacking in free water above and below this zone. The groundwater underdrain beneath the Phase 1A cell intersected and locally dewatered the perched zone, drying out monitoring wells adjacent to the cell. Monitoring wells installed and screened below the groundwater underdrain elevation did not produce water as the soils below the perched zone are unsaturated to at least the bedrock surface. The impact of the groundwater underdrain is illustrated by water levels in monitoring well MW-05-7, which consistently produced water for sampling through the March 2011 sampling event. Following the installation of the groundwater underdrain in July 2011, monitoring well MW-05-7 no longer produced water, beginning with the subsequent (September 2011) sampling event. Monitoring well MW-25R, installed at the base of the unconsolidated materials in 2014 to replace dry well MW-25, did not produce sufficient water for sampling. Previous studies have indicated that vertical downward migration is extremely slow on the order of decades per foot (Indeco, 1991).

2.0 FIGURES DISCUSSION

The following figures are attached.

2.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and Hydrologic Monitoring System Plan (HMSP) monitoring network are depicted on **Figure 1**. **Figure 1** indicates the respective monitoring programs of the HMSP monitoring points as of the end of this reporting period.

2.2 FIGURE 2 – SHALLOW GROUNDWATER CONTOURS

A groundwater contour map based on shallow groundwater levels measured during the November 2024 sampling event is included as **Figure 2**. Shallow groundwater flow associated with the South MSWLF unit is generally to the south in the northern portion and to the south-southwest in the southern portion and is generally reflective of surface topography. As the contours appear to follow generally similar patterns as previous groundwater contour maps, it does not appear that recent waste disposal activities have resulted in a significant change to flow paths.

An unsaturated zone appears to be present below the water table. The groundwater underdrain beneath the Phase 1A cell appears to have dewatered the water table in the immediate area resulting in monitoring well MW-25R on the west side of the cell being consistently dry. This dewatering is described in DNR correspondence dated August 15, 2016 (Doc #86913):

> *Excavation for the Phase 0 and Phase 1 cells of the 2005 Horizontal Expansion removed a significant portion of the uppermost aquifer from this area, and construction of stormwater controls and an underdrain resulted in its effective dewatering. Therefore, wells previously installed in these strata are dry and can no longer be sampled.*

2.3 FIGURE 3 – BEDROCK GROUNDWATER CONTOURS

A groundwater contour map based on bedrock groundwater levels measured during the November 2024 sampling event is included as **Figure 3**. Bedrock groundwater flow is generally to the southeast across the site.

2.4 FIGURE 4 – REPORTING PERIOD DETECTION SUMMARY

Figure 4 shows the range of measured concentrations by monitoring point for the HMSP monitoring points associated with the South MSWLF unit during this reporting period. The water table monitoring wells and bedrock monitoring wells are considered separately. Further discussion of the detected constituents is included in Section 5.0 – Analytical Data Evaluation and Summary of this report.

2.5 FIGURE 5 – ARSENIC CONCENTRATION MAP

A groundwater concentration map for SSL parameter arsenic is included as Figure 5. The background prediction limit is 0.009086 mg/L. Arsenic concentrations are defined to background to the east of SSL monitoring well MW-20 and south of SSL monitoring well MW-90-11 by monitoring well MW-24, and to the south by a J flag detection at AZPOC monitoring well MW-28.

2.6 FIGURE 6 – BARIUM CONCENTRATION MAP

A groundwater concentration map for SSL parameter barium is included in Figure 6. The background prediction limit is 0.5013 mg/L; it should be noted that a natural log transformation was applied to the prediction limit during both semi-annual statistical evaluations during this reporting period. Barium concentrations are defined to background near SSL monitoring well MW-20, as concentrations in bracketing wells are below the prediction limit, including monitoring well MW-19 to the west, MW-90-11 to the northeast, and AZPOC monitoring well MW-28 to the south, with the exception of monitoring well MW-24 to the west, which measured barium concentrations slightly above background.

2.7 FIGURE 7 – COBALT CONCENTRATION MAP

A groundwater concentration map for SSL parameter cobalt is included as Figure 7. The background prediction limit is 0.000377 mg/L. Cobalt near SSL monitoring wells MW-32 and MW-33 is bracketed by AZPOC monitoring well MW-05-2. Cobalt near SSL monitoring well MW-90-11 is bracketed by AZPOC monitoring well MW-29. Cobalt concentrations are defined near SSL monitoring well MW-20 to the west by monitoring well MW-19 and to the south by AZPOC monitoring well MW-28.

2.8 FIGURE 8 – VINYL CHLORIDE CONCENTRATION MAP

A groundwater concentration map for SSL parameter vinyl chloride is included in Figure 8. Vinyl chloride is generally defined near SSL monitoring well MW-24. Vinyl chloride impact in MW-24 is defined to the north by MW-90-11, east by MW-29, southeast by MW-90-18, and south by MW-34. Vinyl chloride concentrations in the five most recent sampling events in monitoring well MW-24 were below the GWPS.

3.0 STANDARDS HISTORY GRAPHS

Standards history graphs for Appendix I metals in the water table aquifer are included in Appendix E.

During the 2022 reporting period, the sample collected from background monitoring well MW-06-7R during the September 22, 2015 sampling event was determined to be not representative of actual groundwater conditions based on the growing set of post-September 22, 2015 analytical data, and the associated inorganic data from the September 22, 2015 sampling event was excluded from statistical consideration. This resulted in a significant decrease to many of the prediction limits as

reflected in the standards history graphs. For each parameter, the prediction limit was below the GWPS.

During this reporting period, bedrock monitoring wells MW-39, MW-40, MW-41, and MW-42 were analyzed using intrawell statistical methods as approved in correspondence dated August 3, 2022 (Doc #103749). To reduce the size of the report, standards history graphs are not included in this report for the bedrock monitoring wells. Table 5 provides a summary of background standards and GWPSs for each of the compliance bedrock monitoring wells.

4.0 QA/QC SUMMARY

The quality assurance/quality control (QA/QC) program for the South MSWLF unit follows similar protocols as included in the HMSP. Data validation procedures were performed on analytical results for laboratory quality control samples and a quality assurance assessment of the data was conducted as the data were generated. The QA review procedure provided documentation of the accuracy and precision of the analytical data and confirmed that the analyses were sufficiently sensitive to detect constituents at levels below regulatory standards when technically feasibly with the laboratory method utilized. SCS then conducted QA/QC data validation of the produced data, which included review of sample handling, analytical sensitivity, and blanks, accuracy, and precision. A summary of the laboratory QA/QC and data validation can be found in Appendix B-1, Laboratory Analytical Data Sheets, and Appendix B-2, Data Validation Documentation, respectively.

5.0 ANALYTICAL DATA EVALUATION AND SUMMARY

The most recently revised permit, dated March 6, 2024 (Doc #109437), defined the HMSP monitoring network for the South MSWLF unit in Special Provision X.4.a.:

a. *The HMSP for the South MSWLF unit, including the Phase 0 and Phase 1A cells in the Lateral Expansion, shall include the following:*

   1) *Unconsolidated aquifer background groundwater monitoring point MW-06-7R;*
   2) *Unconsolidated aquifer downgradient compliance wells, MW-05-8R, MW-19, and MW-25R;*
   3) *Downgradient attenuation zone compliance wells MW-05-2, MW-05-3, MW-28, and MW-29;*
   4) *Supplemental attenuation zone source wells MW-90-11, MW-20, MW-24, MW-32, and MW-33[1];*
   5) *Bedrock aquifer background well MW-43BG;*
   6) *Bedrock aquifer downgradient compliance wells MW-39, MW-40, MW-41, MW-42;*
   7) *Underdrain monitoring points UD-2 and GU-1; and*
   8) *Corrective action monitoring program (CAMP) points[2].*

   [1] Samples from the supplemental attenuation zone source wells shall be analyzed semiannually for the Appendix I parameters and biennially for total organic carbon, nitrate, iron, manganese, and sulfate until the DNR approves otherwise. Since these wells are not compliance points, they are not subject to the requirements of 567 IAC 113.10(5)"c" and 113.10(6).

   [2] The Selection of Remedy and Corrective Action Monitoring Program (CAMP) letter report (Doc #97615), dated April 27, 2020, and CAMP amendment (Doc #98264), dated August

17, 2020, both submitted by Evora Consulting, was approved on September 10, 2020. The CAMP has been further modified in accordance with HMSP and Corrective Action Groundwater Monitoring Program Modification request (Doc #103586), dated July 12, 2022, and approved on July 29, 2022. As described in these documents, the following corrective action monitoring activities will be conducted semiannually in addition to the routine monitoring required in 567 IAC 113.10(5,6) until otherwise approved:

- *Delineation wells MW-90-18, and MW-34 – for vinyl chloride, and*
- *Phase E-1 gas vent – for methane.*

Detection Monitoring

Detection monitoring points include background monitoring well MW-06-7R, monitoring wells MW-05-8R and MW-25R, and underdrain monitoring points UD-2 and GU-1. Monitoring points MW-25R and UD-2 do not have the required number of samples for statistical evaluation as they currently have zero and three samples, respectively. Monitoring point GU-1 is treated with the leachate due to consistent VOC detections and is not statistically evaluated.

Monitoring well MW-05-8R was sampled and statistically evaluated during the 1st 2024 statistical evaluation with interwell prediction limits. No SSIs were indicated in monitoring well MW-05-8R during the May 2024 sampling event. As monitoring well MW-05-8R did not produce a sample during the November 2024 sampling event, no evaluation was performed for the monitoring well during the 2nd 2024 statistical evaluation. Analytical results and statistical conclusions for MW-05-8R will be re-evaluated following the next successful sampling event and statistical evaluation.

AZPOC monitoring wells MW-05-2 and MW-29 were sampled during the May 2024 sampling event; AZPOC monitoring wells MW-05-3 and MW-28 did not produce samples during the May sampling event. Monitoring wells MW-05-2, MW-28, and MW-29 were sampled during the November 2024 sampling event; AZPOC monitoring well MW-05-3 did not produce samples during the November sampling event. One SSI was indicated for chromium in the AZPOC monitoring well MW-29 during the May 2024 sampling event. As documented in the 2024 Spring Sampling Notification dated July 25, 2024 (Doc #110557), the analytical results from the 2nd 2024 sampling event were to be used as the retest for chromium in monitoring well MW-29. The SSI was not confirmed.

AZPOC monitoring wells MW-05-2 and MW-29 were evaluated by confidence intervals. No GWPS exceedances at an SSL were measured. AZPOC monitoring wells MW-05-3 and MW-28 did not have sufficient samples to perform the confidence interval evaluation.

Assessment Monitoring

During the 1st and 2nd 2024 statistical evaluation, assessment monitoring well MW-19 was sampled and statistically evaluated by confidence intervals. No SSLs above GWPS were identified.

Source Characterization

Monitoring wells MW-90-11, MW-20, MW-24, MW-32, and MW-33 are designated as supplemental attenuation zone source wells. These monitoring wells are sampled semi-annually for Appendix I and TSS and biennially for natural attenuation parameters. Mann-Kendall trending evaluation of Appendix I parameters is performed annually.

During the 2nd 2024 statistical evaluation, the Mann-Kendall trend testing performed at 99% confidence (α=0.01) identified 1,2-dichloropropane in monitoring well MW-24 and chloroethane in

monitoring well MW-20 as having statistically significant decreasing trends. Of the 49 total trends evaluated, 30 trends, or greater than 61%, had a Mann-Kendall statistic less than or equal to 0, which indicates a generally stable or decreasing trend. A Mann-Kendall trend test summary table and graphs for the supplemental attenuation zone source wells are included in **Appendix F**.

Bedrock Aquifer

The bedrock monitoring wells MW-39, MW-40, MW-41, and MW-42 were evaluated during the 2024 statistical evaluations using intrawell prediction limits. No SSIs were indicated during this reporting period. Background bedrock monitoring well MW-43BG was not sampled during this reporting period for the reasons discussed in the 2023 Annual Water Quality Report. The statistical evaluation in accordance with the requirements of IAC 567-113.10(5) are located in **Appendix D**, Statistical Method and Output, of this report.

5.1 ANALYTICAL DATA EVALUATION

Groundwater monitoring for the water table beneath the South MSWLF unit consists of samples from monitoring wells encompassing the downgradient perimeters of the unit and two groundwater underdrain discharge points. Background monitoring well MW-06-7R is located at the northern property boundary. Bedrock monitoring wells are situated around the Landfill, with background monitoring well MW-43BG located near the northern property boundary. The range of measured concentrations for the constituents detected during this reporting period is shown on **Figure 4**, Reporting Period Detection Summary. The water table monitoring wells and the bedrock monitoring wells are considered separately on **Figure 4**. It should be noted that the source characterization monitoring wells are no longer subject to IAC 113.10(5) or 113.10(6), therefore are not included on **Figure 4**.

For the water table monitoring wells, VOCs were not detected with the exception of 1,1-dichloroethane in monitoring well MW-28. Maximum site-wide concentrations of metals were measured in background monitoring well MW-06-7R, detection monitoring well MW-05-8R, assessment monitoring well MW-19, and AZPOC monitoring well MW-29 during this reporting period.

For the bedrock monitoring wells, no VOCs were detected. Maximum site-wide concentrations of metals were measured in detection monitoring wells MW-39 and MW-41. Monitoring well MW-43BG was removed from the HMSP monitoring network and was not statistically evaluated.

No SSIs were measured in monitoring well MW-19. SSIs are not retested for assessment monitoring wells. No SSIs were measured in monitoring wells MW-05-8R (not located in November 2024), and MW-25R (dry in May and November 2024) (see **Table 7**).

Special Provision X.4.b. of the permit requires semi-annual measurements of groundwater elevation data from monitoring wells of MW-21, MW-05-1, MW-05-2, MW-05-3, and the Phase 1A underdrain in order to measure the separation of the base of the MSWLF unit from the groundwater water table. These measurements are summarized in the table below.

Water Level Summary

Monitoring Well	5/2024 Elevation	11/2024 Elevation
MW-21	670.95	670.15
MW-05-1	715.97	NA
MW-05-2	701.97	697.33
MW-05-3	688.35	NA
Phase 1A underdrain	NA	NA

All measurements in feet above mean sea level.
NA – Not available.

During this reporting period, the equipment monitoring the elevation of the Phase 1A underdrain was not operating properly, so data from the underdrain is unavailable. However, to evaluate the waste/groundwater separation distance, elevations were used from monitoring wells MW-25R and MW-05-8R and the bottom of the waste elevation calculated from the Construction Observation Report, Phase 1A Cell Construction, dated September 28, 2011 (#66679). Monitoring well MW-25R to the west of the Phase 1A Cell has been dry since installation, so the elevation of the bottom of the well was used for comparison. The water level in monitoring well MW-05-8R to the south of the Phase 1A Cell measured during the May 2024 sampling event was used. These numbers are included in the table below.

Waste/Groundwater Separation

Elevation Source	Elevation (amsl)	Separation Distance (feet)
Bottom of waste	669.05	–
Water Elevation in MW-25R in May 2024	652.88	16.17
Water elevation in MW-05-8R in May 2024	655.35	13.70

Based on the separation distances of 16.17 feet and 13.70 feet shown in the table above, it appears the base of the waste was at least 5 feet above the high water table in accordance with IAC 567-113.6"*i*" during this reporting period.

5.2 CORRECTIVE ACTION

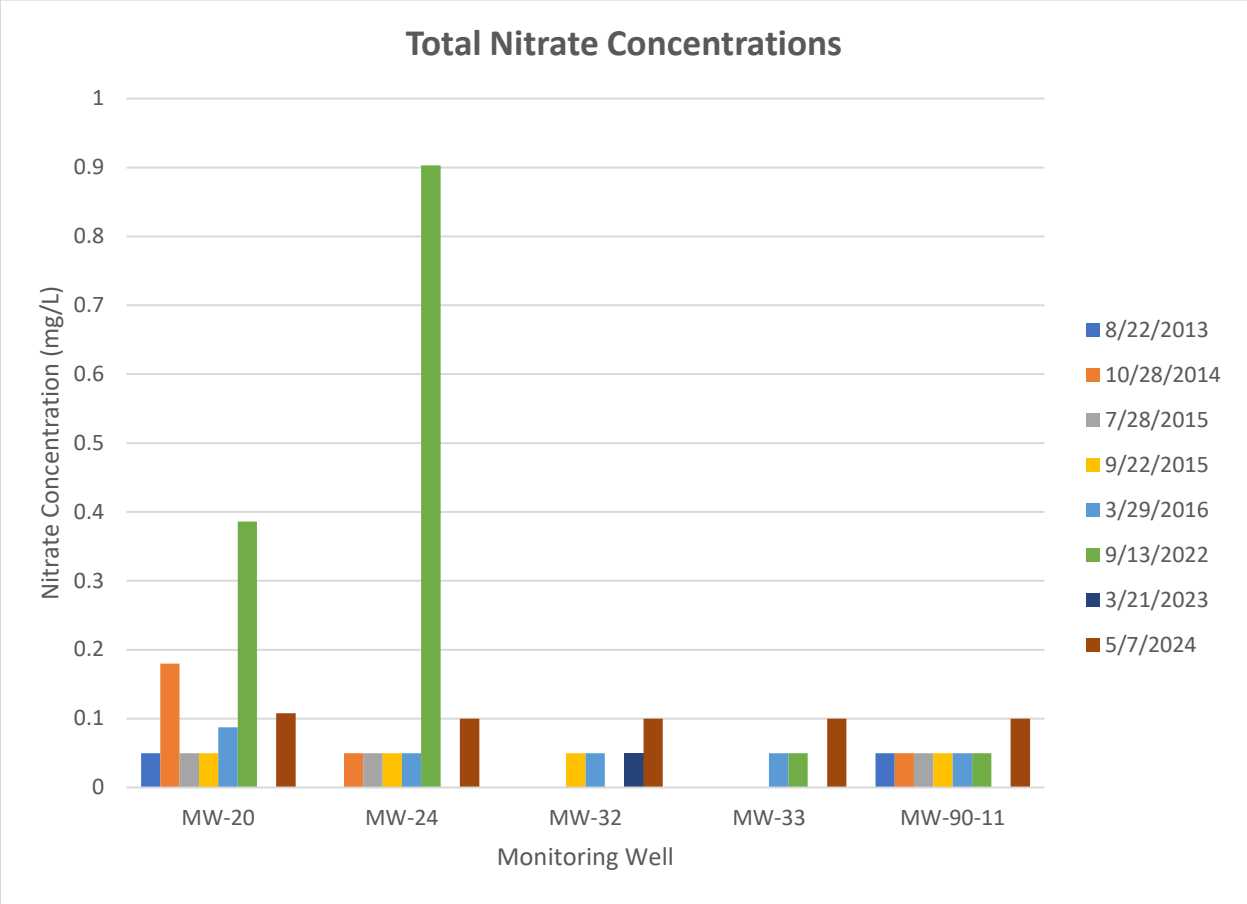
In accordance with the approved corrective action groundwater monitoring program (CAMP), monitoring wells MW-90-11, MW-20, MW-24, and MW-33 were sampled for natural attenuation parameters during the 2024 reporting period. Natural attenuation parameters for monitoring wells MW-90-11, MW-20, MW-24, MW-32, and MW-33 are sampled biennially, with the next sampling and evaluation scheduled to occur during the 2026 reporting period. The natural attenuation analytical data is included on the last page of Appendix C-3.

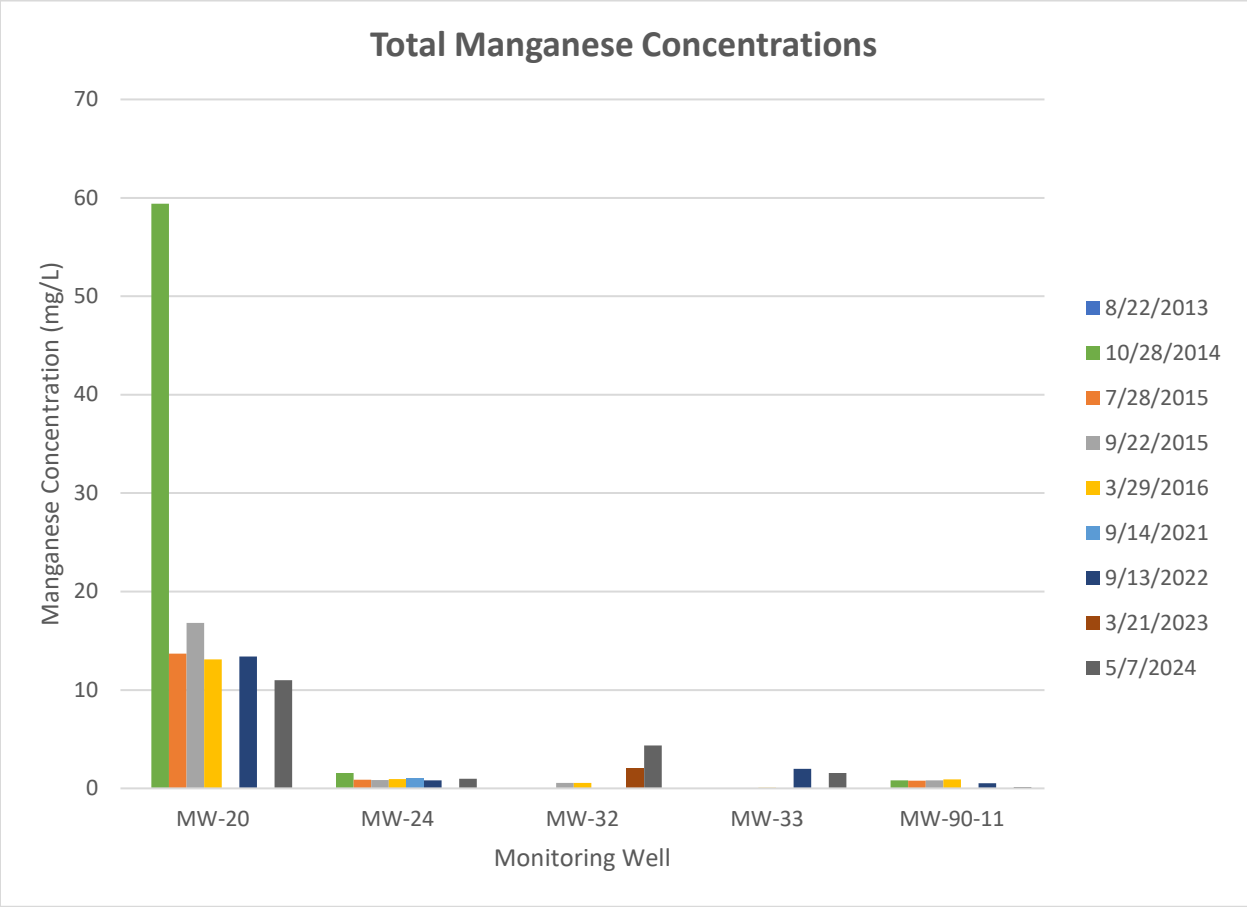
The CAMP gas monitoring point "Phase E-1 cell gas vent" was monitored quarterly for landfill gas. Methane gas was measured at greater than 100 percent of the lower explosive limit (LEL) during the 2nd, 3rd, and 4th quarters of 2024. A measurement of 7 percent of the LEL was measured during the 1nd quarter of 2024. These measurements demonstrate the gas vent is actively venting landfill gas as intended from the "old" waste underneath the Phase E-1 cell.

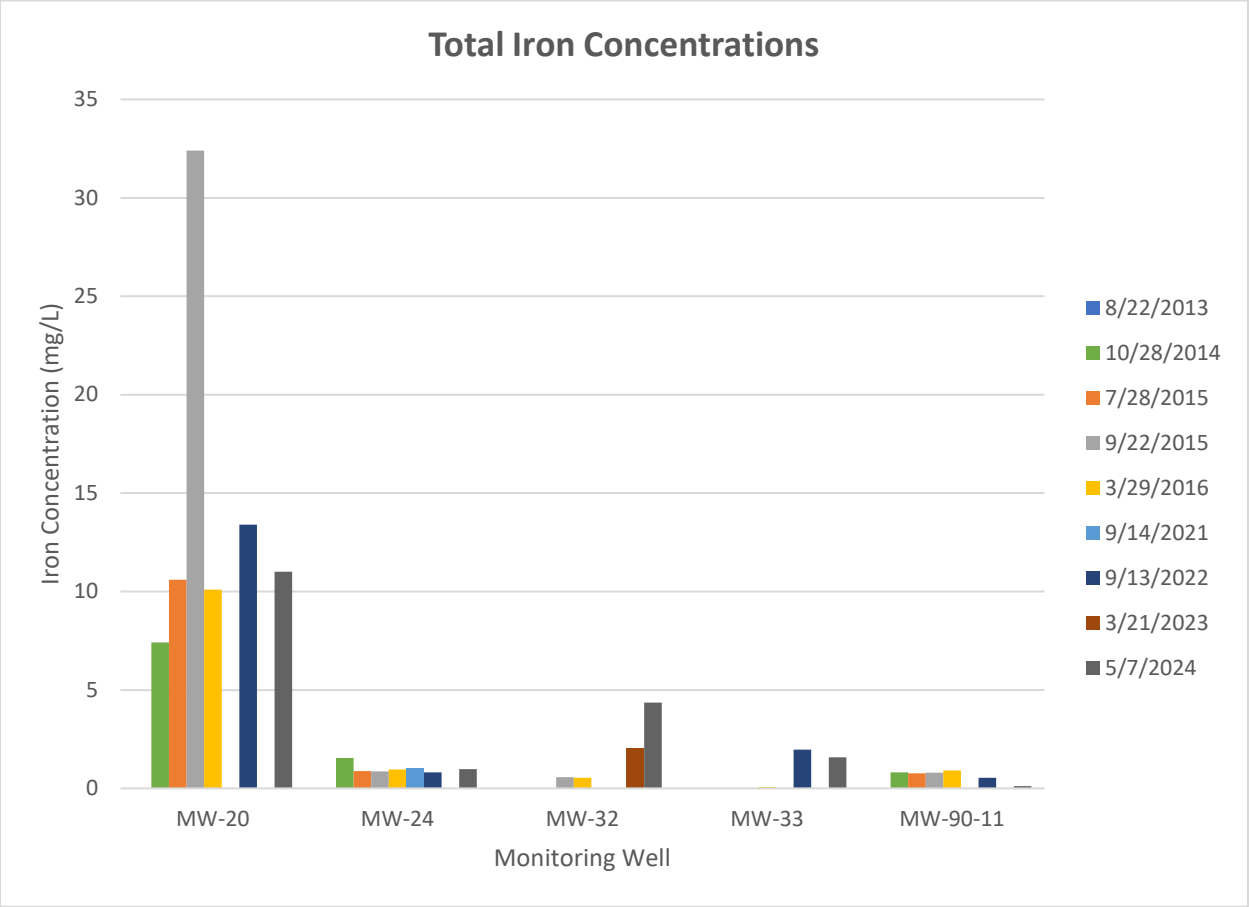
5.3 CORRECTIVE ACTION GROUNDWATER MONITORING PROGRAM REMEDY DISCUSSION

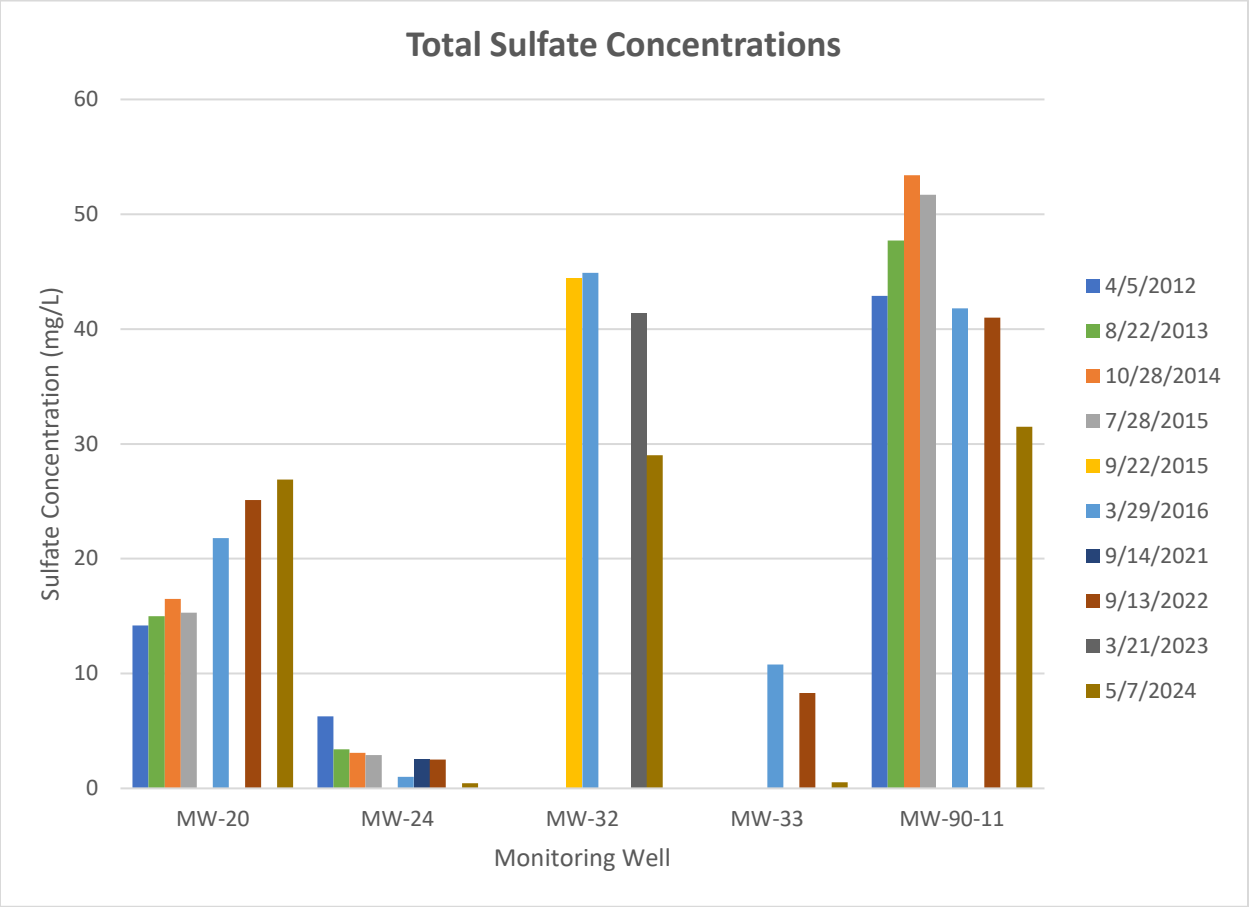
An Assessment of Corrective Measures (ACM) Report was submitted on September 26, 2019 (Doc #96021) and approved in permit correspondence dated December 19, 2019 (Doc #96620). The Selection of Remedy and Corrective Action Monitoring Program (CAMP) was submitted on April 27, 2020, and approved in permit correspondence dated September 10, 2020 (Doc #98417). The selected remedy was source control coupled with monitored natural attenuation. The source control portion of the remedy, consisting of the Phase E-1 cell and the leachate infrastructure, are installed and operational.

Natural attenuation processes are addressing at least a portion of the groundwater impact at the Landfill. Biennial natural attenuation sampling was approved in the CAMP. The Summary of Groundwater Chemistry – Natural Attenuation, located in **Appendix C-3**, shows the current and historical Natural Attenuation constituent concentrations for supplemental attenuation zone source monitoring wells MW-20, MW-24, MW-32, MW-33, and MW-90-11. The following graphs illustrate total nitrate, total manganese, total iron, and sulfate concentrations in monitoring wells MW-20, MW-24, MW-32, MW-33, and MW-90-11.




Total Manganese Concentrations
70
60
50
40
30
20
10
0
Manganese Concentration (mg/L)
MW-20
MW-24
MW-32
MW-33
MW-90-11
Monitoring Well
8/22/2013
10/28/2014
7/28/2015
9/22/2015
3/29/2016
9/14/2021
9/13/2022
3/21/2023
5/7/2024


Total Iron Concentrations
Iron Concentration (mg/L)
35
30
25
20
15
10
5
0
MW-20
MW-24
MW-32
MW-33
MW-90-11
Monitoring Well
8/22/2013
10/28/2014
7/28/2015
9/22/2015
3/29/2016
9/14/2021
9/13/2022
3/21/2023
5/7/2024



Natural Attenuation Discussion

The above graphs indicate varying degrees of reducing conditions at the individual monitoring wells, with electron acceptor availability remaining to sustain natural attenuation.

5.4 SITE IMPACT ON GROUNDWATER

No SSIs were identified in detection monitoring wells in the water table and bedrock monitoring networks and no SSLs were identified in assessment monitoring well MW-19 and AZPOC monitoring wells MW-05-2 and MW-29 during this reporting period. One SSI was detected but not confirmed during this reporting period in the AZPOC monitoring well MW-29.

Of the 49 total trends evaluated for the source monitoring wells, 30, or greater than 61%, had a Mann-Kendall statistic less than or equal to 0, which indicates a generally stable or decreasing trend.

5.5 PROPOSED MONITORING

Recommended monitoring for the next reporting period is included in **Table 2**.

5.6 PROPOSED MONITORING WELL CHANGES

The following are recommended:

- Attempt to redevelop monitoring wells MW-05-2 and MW-05-3 to remove apparent accumulated sediment in the monitoring wells.
- Since monitoring well MW-05-3 has not produced a sample, MW-05-4 will be sampled if MW-05-3 continues to be dry during the 2025 reporting period.

No other changes to the monitoring wells are proposed at this time.

Tables

Table 1
Monitoring Program Summary
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

Monitoring Well	Formation[(1)]	Current Monitoring Program	Change for next sampling event	Constituents with SSIs during the 2024 Reporting Period	Constituents with SSLs	Total # of Samples in each monitoring program		
						Detection inorganic #/organic #	Assessment inorganic #/organic #	Corrective Action inorganic #/organic #
Water Table Monitoring Network								
MW-06-7R	Clay	Background	No Change	Not applicable	Not Applicable	17/33		
MW-05-2	Clay	Detection/AZPOC	No Change	None*	None	4/4		
MW-05-3	Clay	Detection/AZPOC	No Change	Not applicable (no samples)	Not Applicable	0/0		
MW-05-8R	Sandy Silty Clay	Detection	No Change	None*	Not Applicable	8/8		
MW-19	Silty Clay	Assessment	No Change	None	None		19/34	
MW-25R	Sandy Silty Clay/Bedrock	Detection	No Change	Not applicable (no samples)	Not Applicable	0/0		
MW-28	Bedrock	Detection/AZPOC	No Change	None*	Not Applicable	2/2		
MW-29	Sandy Silty Clay	Detection/AZPOC	No Change	Chromium**	None	5/5		
UD-2	Not Applicable	Detection	No Change	None (no samples this reporting period)	Not Applicable	1/3		
GU-1	Not Applicable	Treated with leachate	No Change	Not applicable (treated with leachate)	Not Applicable		5/8	
Bedrock Monitoring Network								
MW-39	Bedrock	Detection	No Change	None	Not Applicable	13/13		
MW-40	Bedrock	Detection	No Change	None	Not Applicable	13/13		
MW-41	Bedrock	Detection	No Change	None	Not Applicable	13/13		
MW-42	Bedrock	Detection	No Change	None	Not Applicable	12/12		
Supplemental Attenuation Zone Source Wells								
MW-90-11	Bedrock	Source Well	No Change	Not applicable	Not Applicable			19/34
MW-20	Clay/Sand	Source Well	No Change	Not applicable	Not Applicable			19/35
MW-24	Silty Clay/Sandy Clay/Clayey Sand	Source Well	No Change	Not applicable	Not Applicable			19/35
MW-32	Silty Clay/Bedrock	Source Well	No Change	Not applicable	Not Applicable			18/25
MW-33	Silty Clay/Silty Sandy Clay	Source Well	No Change	Not applicable	Not Applicable			20/27
Corrective Action Groundwater Monitoring Program								
MW-34	Sandy Silty Clay/Sand	Impact delineation monitoring point						
MW-90-18	Medium to Coarse Sand	Impact delineation monitoring point						
Water Level Measurement Wells								
MW-05-3	Not available	Water Level						
MW-21	Clay	Water Level						

Notes:

(1) Obtained from screened interval in boring logs.

SSI = Statistically Significant Increase above background.

SSL = Statistically Significant Level above groundwater protection standards.

* - See Section 5.0 of the narrative for a discussion of SSIs.

** - SSI not confirmed based on retesting.

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
Monitoring Well	**May 2024 Semi-Annual**	**November 2024 Semi-Annual**	**1st 2025 Semi-Annual**	**2nd 2025 Semi-Annual**	**Previously Collected**	**Next Event**
Water Table Monitoring Network						
MW-06-7R	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-05-2	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-05-3	Not Sampled - Dry	Not Sampled	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-05-8R	Appendix I, TSS	Not Sampled - Dry	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-19	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	8/22/2013, 7/13/2016, 5/18/2021	2026
MW-25R	Not Sampled - Dry	Not Sampled - Dry	Appendix I,TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-28	Not Sampled - Dry	Appendix I, TSS	Appendix I,TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-29	Appendix I, TSS	Appendix I, TSS	Appendix I,TSS	Appendix I, TSS	Not Applicable	Not Applicable
UD-2	Not Sampled- Dry	Not Sampled - Dry	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
GU-1	Not Sampled - Dry	Not Sampled - Dry	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
Bedrock Monitoring Network						
MW-39	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-40	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-41	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-42	Appendix I, TSS	Not Sampled - Inaccessible	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-43BG*	Water Level	Water Level	Water Level	Water Level	Not Applicable	Not Applicable

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
Monitoring Well	**May 2024 Semi-Annual**	**November 2024 Semi-Annual**	**1st 2025 Semi-Annual**	**2nd 2025 Semi-Annual**	**Previously Collected**	**Next Event**
Supplemental Attenuation Zone Source Wells						
MW-90-11	Appendix I, TSS, Natural Attenuation	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	3/15/2010, 9/14/2011, 3/29/2016, 5/20/2021	Not Applicable
MW-20	Appendix I, TSS, Natural Attenuation	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	3/29/2016, 5/20/2021	Not Applicable
MW-24	Appendix I, TSS, Natural Attenuation	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	6/30/2010, 9/14/2011, 3/29/2016, 5/19/2021	Not Applicable
MW-32	Appendix I, TSS, Natural Attenuation	Not Sampled - Dry	Appendix I, TSS	Appendix I, TSS	4/7/2015, 3/29/2016, 5/18/2021	Not Applicable
MW-33	Appendix I, TSS, 2,4-D, 3/4-Methylphenol, Natural Attenuation	Appendix I, TSS, 2,4-D, 3/4-Methylphenol	Appendix I, TSS, 2,4-D, 3/4-Methylphenol	Appendix I, TSS, 2,4-D, 3/4-Methylphenol	7/28/2015, 7/13/2016, 5/18/2021	Not Applicable
CAMP Monitoring Points						
MW-34	Not Sampled - Dry	Not Sampled - Dry	Vinyl Chloride	Vinyl Chloride	Not Applicable	Not Applicable
MW-90-18	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Vinyl Chloride	Not Applicable	Not Applicable
Phase E-1 Gas Vent	Methane Monitoring	Methane Monitoring	Methane Monitoring	Methane Monitoring	Not Applicable	Not Applicable
Water Level Wells						
MW-05-5	Water Level	Water Level	Water Level	Water Level	Not Applicable	Not Applicable
MW-21	Water Level	Water Level	Water Level	Water Level	Not Applicable	Not Applicable

TSS - Total Suspended Solids

Natural Attenuation includes total organic carbon, nitrate, manganese, iron, and sulfate.

* - Monitoring well MW-43 was removed from the HMSP sampling program.

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

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

Table 4
Monitoring Well Maintenance and Performance Summary
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East , South MSWLF Unit
Permit No. 23-SDP-01-74P

Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth	Initial Flow Rate (L/min)	Recent Flow Rate (L/min)	
					5/8/2024	11/5/2024	Discrepancy (ft)	Date	11/5/2024	% Change
MW-06-7R	746.25	713.39	42.9	Groundwater Level (ft)	20.56	26.27	3.5	0.150 9/22/2015	0.192	28%
				Groundwater Elevation (Ft MSL)	725.69	719.98				
				Measured Well Depth (ft)	39.4	42.1				
				Submerged screen	Y	Y				
MW-05-2	711.69	687.83	38.9	Groundwater Level (ft)	9.72	14.36	6.9	0.167 9/15/2022	0.167	0%
				Groundwater Elevation (Ft MSL)	701.97	697.33				
				Measured Well Depth (ft)	32.0	32.1				
				Submerged screen	N	Y				
MW-05-3	712.92	695.20	32.7	Groundwater Level (ft)	24.57	NM	6.7	NA	NA	NA
				Groundwater Elevation (Ft MSL)	688.35	NA				
				Measured Well Depth (ft)	26.0	NM				
				Submerged screen	N	NA				
MW-05-8R	697.66	664.55	53.9	Groundwater Level (ft)	42.31	Dry	1.6	0.163 3/21/2019	NA	NA
				Groundwater Elevation (Ft MSL)	655.35	NA				
				Measured Well Depth (ft)	52.6	52.3				
				Submerged screen	N	N				
MW-90-11	707.60	687.60	30.9	Groundwater Level (ft)	9.58	11.20	-0.1	0.150 9/22/2015	0.167	11%
				Groundwater Elevation (Ft MSL)	698.02	696.40				
				Groundwater Elevation (Ft MSL)	31.0	31.0				
				Submerged screen	Y	Y				
MW-19	694.82	673.87	31.0	Groundwater Level (ft)	17.76	24.80	0.8	0.100 9/23/2015	0.125	25%
				Groundwater Elevation (Ft MSL)	677.06	670.02				
				Measured Well Depth (ft)	30.3	30.2				
				Submerged screen	Y	N				
MW-20	686.75	668.95	27.8	Groundwater Level (ft)	15.80	16.60	2.6	0.150 9/22/2015	0.125	-17%
				Groundwater Elevation (Ft MSL)	670.95	670.15				
				Measured Well Depth (ft)	25.2	25.2				
				Submerged screen	Y	Y				
MW-24	707.27	689.57	37.7	Groundwater Level (ft)	13.21	16.55	2.3	0.100 9/22/2015	0.167	67%
				Groundwater Elevation (Ft MSL)	694.06	690.72				
				Measured Well Depth (ft)	35.4	35.4				
				Submerged screen	Y	Y				
MW-25R	702.79	663.05	49.7	Groundwater Level (ft)	Dry	Dry	NA	NA	NA	NA
				Groundwater Elevation (Ft MSL)	NA	NA				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	N	N				
MW-28	665.63	642.18	33.5	Groundwater Level (ft)	Dry	26.00	3.4	NA	0.208	NA
				Groundwater Elevation (Ft MSL)	NA	639.63				
				Measured Well Depth (ft)	NM	30.1				
				Submerged screen	N	N				
MW-29	704.78	692.05	22.7	Groundwater Level (ft)	15.93	19.04	-0.4	0.170 9/16/2022	0.158	-7%
				Groundwater Elevation (Ft MSL)	688.85	685.74				
				Measured Well Depth (ft)	23.1	23.1				
				Submerged screen	N	N				
MW-32	733.43	714.78	38.7	Groundwater Level (ft)	27.68	Dry	4.0	0.300 9/22/2015	NM	NA
				Groundwater Elevation (Ft MSL)	705.75	NA				
				Measured Well Depth (ft)	34.7	NM				
				Submerged screen	N	N				
MW-33	735.02	726.64	23.4	Groundwater Level (ft)	10.71	16.26	0.0	0.080 9/22/2015	0.167	108%
				Groundwater Elevation (Ft MSL)	724.31	718.76				
				Measured Well Depth (ft)	23.4	23.4				
				Submerged screen	N	N				
MW-39	673.62	560.60	118.0	Groundwater Level (ft)	42.61	41.12	-2.1	0.280 12/11/2018	0.233	-17%
				Groundwater Elevation (Ft MSL)	631.01	632.50				
				Measured Well Depth (ft)	120.1	118.0				
				Submerged screen	Y	Y				
MW-40	718.09	630.20	92.9	Groundwater Level (ft)	72.86	72.80	-1.1	0.350 12/12/2018	0.217	-38%
				Groundwater Elevation (Ft MSL)	645.23	645.29				
				Measured Well Depth (ft)	94.0	93.5				
				Submerged screen	Y	Y				
MW-41	718.27	612.80	110.5	Groundwater Level (ft)	57.22	59.40	-0.8	0.280 11/12/2018	0.250	-11%
				Groundwater Elevation (Ft MSL)	661.05	658.87				
				Measured Well Depth (ft)	110.5	111.3				
				Submerged screen	Y	Y				
MW-42	736.34	657.10	84.2	Groundwater Level (ft)	60.02	NM	-0.1	0.333 12/11/2018	0.180	-46%
				Groundwater Elevation (Ft MSL)	676.32	NA				
				Measured Well Depth (ft)	84.3	NM				
				Submerged screen	Y	NA				

NM - Not Measured

NA - Not Applicable

Monitoring wells with dedicated sampling pumps are measured once every five years. However, if sampling is performed with a portable submersible pump, well depths are measured.

The well depths were generally within 1.8 feet of the installed depth with the following exceptions:

• MW-06-7R – Monitoring well MW-06-7R has an installed depth of 42.9 feet, but the depth measurement during the 1st 2024 sampling event was 39.4 feet. However, the depth measurement during the 2nd 2024 sampling event was 42.1 feet.

• MW-20 – Monitoring well MW-20 has an installed depth of 27.8 feet, but the depth measurements during the 2024 sampling event was 25.2 feet. This monitoring well consistently measures shallower than the installed well depth.

• MW-24 – Monitoring well MW-24 has an installed depth of 37.7 feet but the depth measurements during the 2024 sampling event was 35.4 feet. This monitoring well consistently measures shallower than the installed well depth.

• MW-28 – Monitoring well MW-28 has an installed depth of 33.5 feet but the depth measurements during the 2024 sampling event was 30.1 feet.

• MW-32 – Monitoring well MW-32 has an installed depth of 38.7 feet but the depth measurements during the 2024 sampling event was 34.7 feet.

• MW-05-2 and MW-05-3 – Monitoring wells MW-05-2 and MW-05-3 have not been part of the sampling program in the past. It is anticipated that the routine semi-annual sampling may remove sediment through regular purging. In addition, focused sediment removal methods will be employed if samples are unable to be consistently collected due to siltation.

It does not appear that siltation is adversely impacting the ability of the monitoring wells to consistently produce samples with the possible exception of MW-05-2 and MW-05-3. However, during this reporting period a few wells were dry or without sufficient water for sampling. Monitoring well MW-25R, in the area affected by the groundwater underdrain, was dry during both 2024 sampling events.

Groundwater Underdrain Piezometer

To evaluate the waste/groundwater separation distance, elevations were used from monitoring wells MW-25R and MW-05-8R and the bottom of the waste elevation was calculated from the Construction Observation Report, Phase 1A Cell Construction, dated September 28, 2011 (Doc #66679). The water level measured in monitoring wells MW-25R and MW-05-8R during the May 2024 sampling event were used since both monitoring wells were dry during the November 2024 sampling event. These measurements are included in the table below.

Elevation Source	Elevation (amsl)	Separation Distance (feet)
Bottom of waste	669.05	-
Water elevation in MW-25R in May 2024	< 653.09	15.96
Water elevation in MW-05-8R in May 2024	655.35	13.70

Based on the separation distances of 16.17 feet and 13.70 feet shown in the table above, it appears the base of the waste was at least 5 feet above the high water table in accordance with IAC 567-113.6"*i*" during this reporting period.

Table 5
Background and GWPS Summary
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

Water Table Interwell Background/GWPS (MW-06-7R)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	17	0	0.0005 (1/2 RL)	0.001 (1/2 RL)	0.00074	< 0.002	DQR	0.006	MCL
Arsenic (As)	mg/L	17	17	0.000593*	0.00725	0.00276	0.009086	PL (P)	0.01	MCL
Barium (Ba)	mg/L	17	17	0.0869	0.405	0.17946	0.5013	PL (P)	2	MCL
Beryllium (Be)	mg/L	17	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	17	3	0.00005 (1/2 RL)	0.00025 (1/2 RL)	0.00012	0.00025	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	17	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.1	MCL
Cobalt (Co)	mg/L	17	5	0.000064*	0.000377*	0.00022	0.000377	PL (NP)	0.0021	SWS
Copper (Cu)	mg/L	17	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	1.3	MCL
Lead (Pb)	mg/L	17	4	0.000163*	0.0021	0.00036	0.0021	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	17	1	0.0025 (1/2 RL)	0.00268*	0.00251	0.00268	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	17	2	0.0015*	0.0025 (1/2 RL)	0.00239	0.0025	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	17	2	0.0005 (1/2 RL)	0.00138	0.00057	0.00138	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	17	3	0.000265*	0.000895*	0.00053	0.000895	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	17	1	0.0019*	0.0025 (1/2 RL)	0.00246	0.0025	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	17	1	0.005 (1/2 RL)	0.01 (1/2 RL)	0.00944	0.01	PL (NP)	2	SWS

Bedrock Intrawell Background/GWPS (MW-39)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	12	0	0.0005 (1/2 RL)	0.001 (1/2 RL)	0.00079	< 0.002	DQR	0.006	MCL
Arsenic (As)	mg/L	12	3	0.000547*	0.0031	0.00129	0.0031	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	12	12	0.318	0.703	0.40342	0.703	PL (NP)	2	MCL
Beryllium (Be)	mg/L	12	2	0.0005 (1/2 RL)	0.00208	0.00072	0.00208	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	12	3	0.00005 (1/2 RL)	0.000648	0.00017	0.000648	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	12	6	0.00098*	0.00833	0.00341	0.01075	PL (P)	0.1	MCL
Cobalt (Co)	mg/L	12	12	0.000299*	0.0102	0.00305	0.01093	PL (P)	0.01093	SSS
Copper (Cu)	mg/L	12	3	0.0025 (1/2 RL)	0.0135	0.00381	0.0135	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	12	11	0.00025 (1/2 RL)	0.0176	0.00330	0.0176	PL (NP)	0.0176	SSS
Nickel (Ni)	mg/L	12	4	0.00194*	0.0227	0.00549	0.0227	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	12	2	0.00106*	0.0025 (1/2 RL)	0.00235	0.0025	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.002	MCL
Vanadium (V)	mg/L	12	7	0.000863*	0.0314	0.00670	0.0314	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	12	3	0.01 (1/2 RL)	0.0755	0.01863	0.0755	PL (NP)	2	SWS

Bedrock Intrawell Background/GWPS (MW-40)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	12	0	0.0005 (1/2 RL)	0.001 (1/2 RL)	0.00079	< 0.002	DQR	0.006	MCL
Arsenic (As)	mg/L	12	0	0.001 (1/2 RL)	0.001 (1/2 RL)	0.00100	< 0.002	DQR	0.01	MCL
Barium (Ba)	mg/L	12	12	0.0144	0.0176	0.01613	0.01825	PL (P)	2	MCL
Beryllium (Be)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	12	0	0.00005 (1/2 RL)	0.00025 (1/2 RL)	0.00009	< 0.0005	DQR	0.005	MCL
Chromium (Cr)	mg/L	12	1	0.000832*	0.0025 (1/2 RL)	0.00236	0.0025	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	12	1	0.000125*	0.00025 (1/2 RL)	0.00024	0.00025	PL (NP)	0.0021	SWS
Copper (Cu)	mg/L	12	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	1.3	MCL
Lead (Pb)	mg/L	12	0	0.00025 (1/2 RL)	0.00025 (1/2 RL)	0.00025	< 0.0005	DQR	0.015	MCL
Nickel (Ni)	mg/L	12	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.1	SWS
Selenium (Se)	mg/L	12	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.05	MCL
Silver (Ag)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.002	MCL
Vanadium (V)	mg/L	12	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.035	SWS
Zinc (Zn)	mg/L	12	1	0.00822*	0.01 (1/2 RL)	0.00985	0.01	PL (NP)	2	SWS

Bedrock Intrawell Background/GWPS (MW-41)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	12	0	0.0005 (1/2 RL)	0.001 (1/2 RL)	0.00079	< 0.002	DQR	0.006	MCL
Arsenic (As)	mg/L	12	12	0.00226	0.00274	0.00251	0.002879	PL (P)	0.01	MCL
Barium (Ba)	mg/L	12	12	0.155	0.176	0.16533	0.178	PL (P)	2	MCL
Beryllium (Be)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	12	2	0.000048*	0.00025 (1/2 RL)	0.00009	0.00025	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	12	2	0.000912*	0.0043*	0.00252	0.0043	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	12	12	0.00032*	0.00051	0.00042	0.000543	PL (P)	0.0021	SWS
Copper (Cu)	mg/L	12	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	1.3	MCL
Lead (Pb)	mg/L	12	5	0.000199*	0.000869	0.00036	0.000869	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	12	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.1	SWS
Selenium (Se)	mg/L	12	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.05	MCL
Silver (Ag)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.002	MCL
Vanadium (V)	mg/L	12	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.035	SWS
Zinc (Zn)	mg/L	12	0	0.01 (1/2 RL)	0.01 (1/2 RL)	0.01000	< 0.02	DQR	2	SWS

Table 5
Background and GWPS Summary
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

Bedrock Intrawell Background/GWPS (MW-42)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	12	0	0.0005 (1/2 RL)	0.001 (1/2 RL)	0.00079	< 0.002	DQR	0.006	MCL
Arsenic (As)	mg/L	12	0	0.001 (1/2 RL)	0.001 (1/2 RL)	0.00100	< 0.002	DQR	0.01	MCL
Barium (Ba)	mg/L	12	12	0.123	0.188	0.16708	0.2115	PL (P)	2	MCL
Beryllium (Be)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	12	0	0.00005 (1/2 RL)	0.00025 (1/2 RL)	0.00009	< .0005	DQR	0.005	MCL
Chromium (Cr)	mg/L	12	1	0.00167*	0.0025 (1/2 RL)	0.00243	0.0025	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	12	5	0.000095*	0.000331*	0.00022	0.000331	PL (NP)	0.0021	SWS
Copper (Cu)	mg/L	12	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	1.3	MCL
Lead (Pb)	mg/L	12	3	0.000241*	0.00115	0.00038	0.00115	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	12	1	0.00169*	0.0025 (1/2 RL)	0.00243	0.0025	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	12	11	0.00115*	0.00264*	0.00169	0.00271	PL (P)	0.05	MCL
Silver (Ag)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	12	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.002	MCL
Vanadium (V)	mg/L	12	1	0.000636*	0.0025 (1/2 RL)	0.00234	0.0025	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	12	0	0.01 (1/2 RL)	0.01 (1/2 RL)	0.01000	< 0.02	DQR	2	SWS

Notes:

Background levels based on calculated prediction limits or half the reporting limit, as applicable.

* - Indicates J flag. The concentration is above the method detection limit but below the reporting limit; the concentration is estimated.

Acronyms/Abbreviations:

RL = Reporting Limit
GWPS = Groundwater Protection Standard (mg/L)
DQR = Double Quantification Rule
SSS = Site-Specific GWPS
SWS = Statewide Standard
PL = Prediction Limit
MCL = EPA Maximum Contaminant Level
NP = Non-Parametric
P = Parametric
NA = Not Applicable

1) Water quality results and effectiveness of the statistical data evaluation criteria: Statistical evaluations consist of prediction limits, double quantification rule, confidence intervals/confidence bands, as appropriate. Data from the background wells is not used for development of the confidence intervals or confidence bands.

2) Changes to the previous statistical method during reporting period: None.

3) Re-sampling strategy: Retesting is performed on a 1-of-2 scheme.

4) Justification for data exclusion: Inorganic data collected prior to the implementation of low-flow sampling in March 2016 was excluded from statistical consideration. Removal of the MW-06-7R outlier (9/22/2015) in the 2022 SSN eliminated site-specific GWPSs for arsenic and cobalt.

Table 6
Summary of Well/Detected Constituent Pairs With No Immediately Preceding SSIs
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

Well	Constituent	Units	Most recent result	Background Standard
MW-29*	None			

Comments:
1) This table represents constituent/well pairs with indicated SSIs during the 2024 reporting period that did not have indicated SSIs during the 2023 reporting period.
2) Problems with the current detection network:
* - SSIs were indicated for chromium in monitoring well MW-29 during the 1st 2024 statistical evaluation. Despite the low concentrations, well below the corresponding GWPSs, the concentrations measured in May 2024 were higher than the prediction limits. Monitoring well MW-29 measured below the prediction limit during the November 2024 sampling event and the SSI was not confirmed; analytical results and statistical conclusions will be re-evaluated following the next successful sampling attempt and statistical evaluation.
3) Schedule to implement remedies: None.
4) Alternative constituent or sample frequency changes: None.
5) Significant changes to calculated predication limits: Not applicable.
6) Resampling strategy: Retesting will be performed on a 1-of 2 retesting scheme.

Table 7
Summary of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

Well	Constituent	Units	Most recent result	Background Standard	Lower Confidence Limit	GWPS	Sample Dates		
							Initial Exceedance	Resample(s)	5th background sample
Water Table Monitoring Wells									
MW-06-7R	None								
MW-05-2	None								
MW-05-3	None								
MW-05-8R	None								
MW-19	None								
MW-25R	None								
MW-28	None								
MW-29*	None								
UD-1	None								
Bedrock Monitoring Wells									
MW-39	None								
MW-40	None								
MW-41	None								
MW-42	None								

Comments:
Shaded rows denote constituent/well pairs with SSIs indicated in 2024 that were not indicated in 2023. Unshaded rows denote constituent/well pairs with SSIs indicated during both the 2023 and 2024 reporting periods.
NA - Not applicable. Retesting is not performed for monitoring wells in the assessment monitoring program.
* - An SSI was indicated for chromium in monitoring well MW-29 during the 1st 2024 statistical evaluation. Despite the low concentrations, well below the corresponding GWPSs, the concentrations measured in May 2024 were higher than the prediction limits. Monitoring well MW-29 measured a concentration below the prediction limit during the November 2024 sampling event and the SSI was not confirmed.
** - J-flag detection

Comments:
1) Problems with the current assessment network: None.
2) Proposed remedies: Source control with monitored natural attenuation was the selected remedy (Doc #97615).
3) Alternative constituent or sample frequency changes: None.
4) Plume delineation strategies: See discussion of Figures 5, 6, 7, and 8.

Table 8
Summary of Ongoing and Newly Identified SSLs
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

Well	Constituent	Units	Most recent result	Upper Confidence Limit	GWPS	Initial Exceedance	Upper Confidence Limit Below GWPS					
							1st Year		2nd Year		3rd Year	
None												

Notes:

* - Monitoring wells MW-90-11, MW-20, MW-24, MW-32, and MW-33 were transitioned to source characterization monitoring wells following the 1st 2022 statistical evaluation (Doc #103747).

Table 9
Analytical Data Summary
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

The Summary of Groundwater Chemistry for the water table HMSP monitoring network is located in Appendix C-1.
The Summary of Groundwater Chemistry for the bedrock HMSP monitoring network is located in Appendix C-2.
The Summary of Groundwater Chemistry for the source characterization monitoring wells is located in Appendix C-3.
The Summary of Groundwater Chemistry for the bracketing wells is located in Appendix C-4.

Table 10
Historical SSI and SSL
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

Key

SSI - Statistically Significant Increase above background

SSL - Statistically Significant Level above groundwater protection standards

Well	Constituent	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024
Water Table Monitoring Wells									
MW-05-2	None								
MW-05-3	None								
MW-05-8R	None								
MW-19	Cadmium								
	Cobalt								
	Thallium								
MW-25R	None								
MW-28	1,1-Dichloroethane								
MW-29*	None								
UD-2	None								
Bedrock Monitoring Wells									
MW-39	None								
MW-40	None								
MW-41	None								
MW-42	None								

Notes:

1) SSIs are only recorded for the initial confirmed SSI measurement. SSIs are not confirmed for assessment monitoring wells.

2) The bedrock monitoring wells had sufficient samples for prediction limit analysis beginning with the fall 2020 statistical evaluation.

3) Detected SSIs are considered SSIs for the purposes of this table.

* - SSIs were indicated for chromium in monitoring well MW-29 during the 1st 2024 statistical evaluation. Despite the low concentrations, well below the corresponding GWPSs, the concentrations measured in May 2024 were higher than the prediction limits. Monitoring well MW-29 measured a concentration below the prediction limit during the November 2024 sampling event and the SSI was not confirmed.

Table 11
Corrective Action Trend Analysis
2024 Annual Water Quality Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

Well	Constituent	Trend	Calculated S	Critical S	N
Statistically Significant Trends in Source Wells					
MW-20	Chloroethane	Decreasing	-22	-21	8
MW-24	1,2-Dichloropropane	Decreasing	-24	-21	8

Overall Trends of Detected Appendix I Constituents in Source Wells						
	MW-20	MW-24	MW-32	MW-33	MW-90-11	Total
Increasing (S = >0):	8	5	1	1	4	19
Decreasing (S = ≤0):	3	6	7	9	5	30

Over 61% of the trends are stable or decreasing.
A summary table and graphs are included in Appendix K.

Notes:
N - Number of Samples
S - Mann-Kendall Statistic

Comments:
1) The approved remedy is monitored natural attenuation and leachate extraction (Doc #98166).

Figures

HMSP Points	Monitoring Program
MW-06-7R	Background
MW-05-2 (AZPOC)	Detection
MW-05-3 (AZPOC)	Detection
MW-05-8R	Detection
MW-90-11	Source Characterization
MW-19	Assessment
MW-20	Source Characterization
MW-24	Source Characterization
MW-25R	Detection
MW-28 (AZPOC)	Detection
MW-29 (AZPOC)	Detection
MW-32	Source Characterization
MW-33	Source Characterization
GU-1	Treated with Leachate
UD-2	Detection
Bedrock Wells	
MW-39	Detection
MW-40	Detection
MW-41	Detection
MW-42	Detection

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Approved Monitoring Network

Legend

- HMSP Monitoring Well
- HMSP Groundwater Underdrain
- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Leachate Monitoring Location
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximiate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

Figure 1

N W E S

0 260 520 1,040 1,560 Feet

Shallow Groundwater Contours

Figure 2

Legend

- Approximate Shallow Groundwater Contours Based on Field Measurements Taken November 4-7, 2024
- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Leachate Monitoring Location
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximiate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

N W E S

0 260 520 1,040 1,560 Feet

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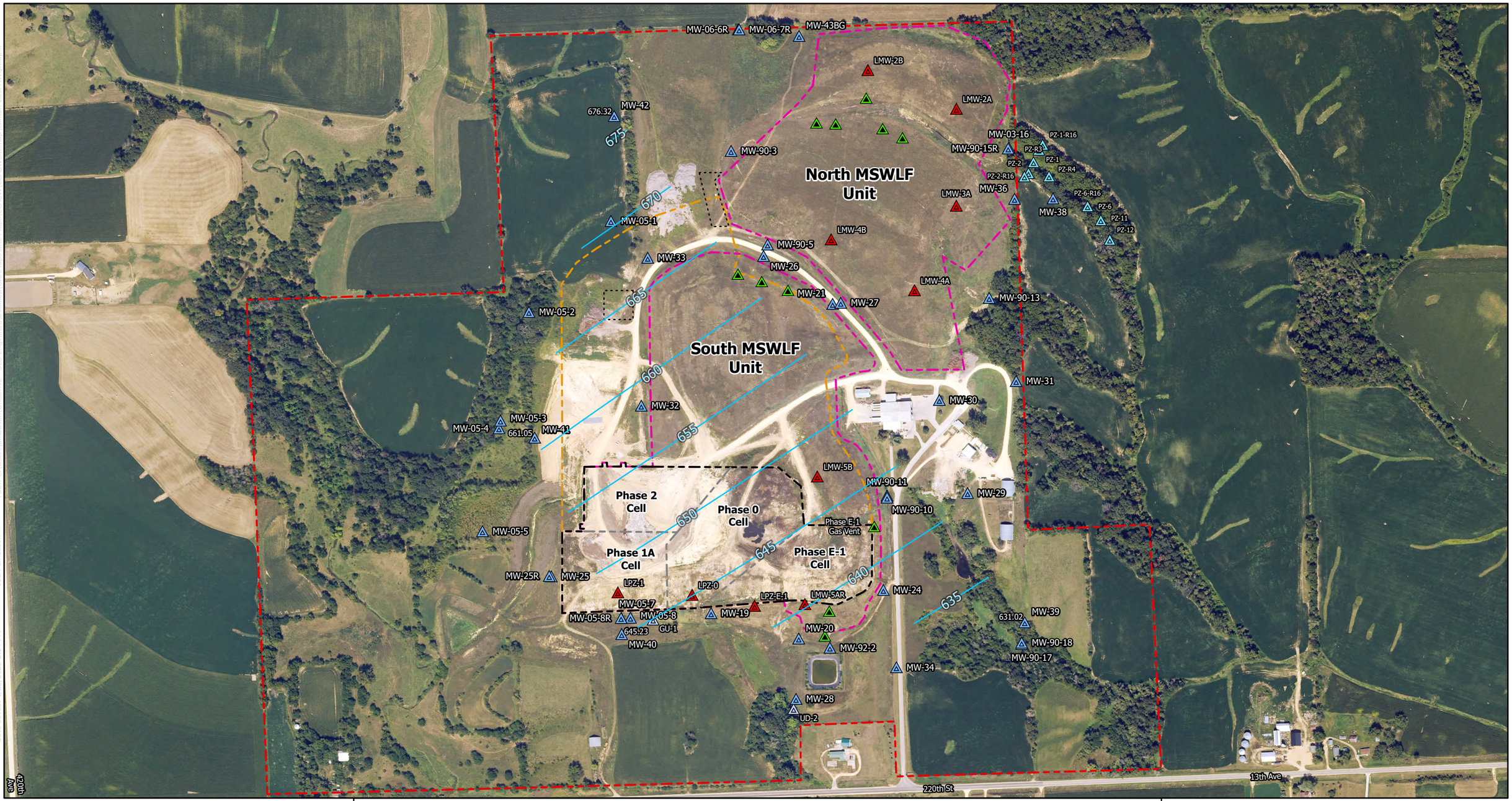

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Bedrock Groundwater Contours

Figure 3

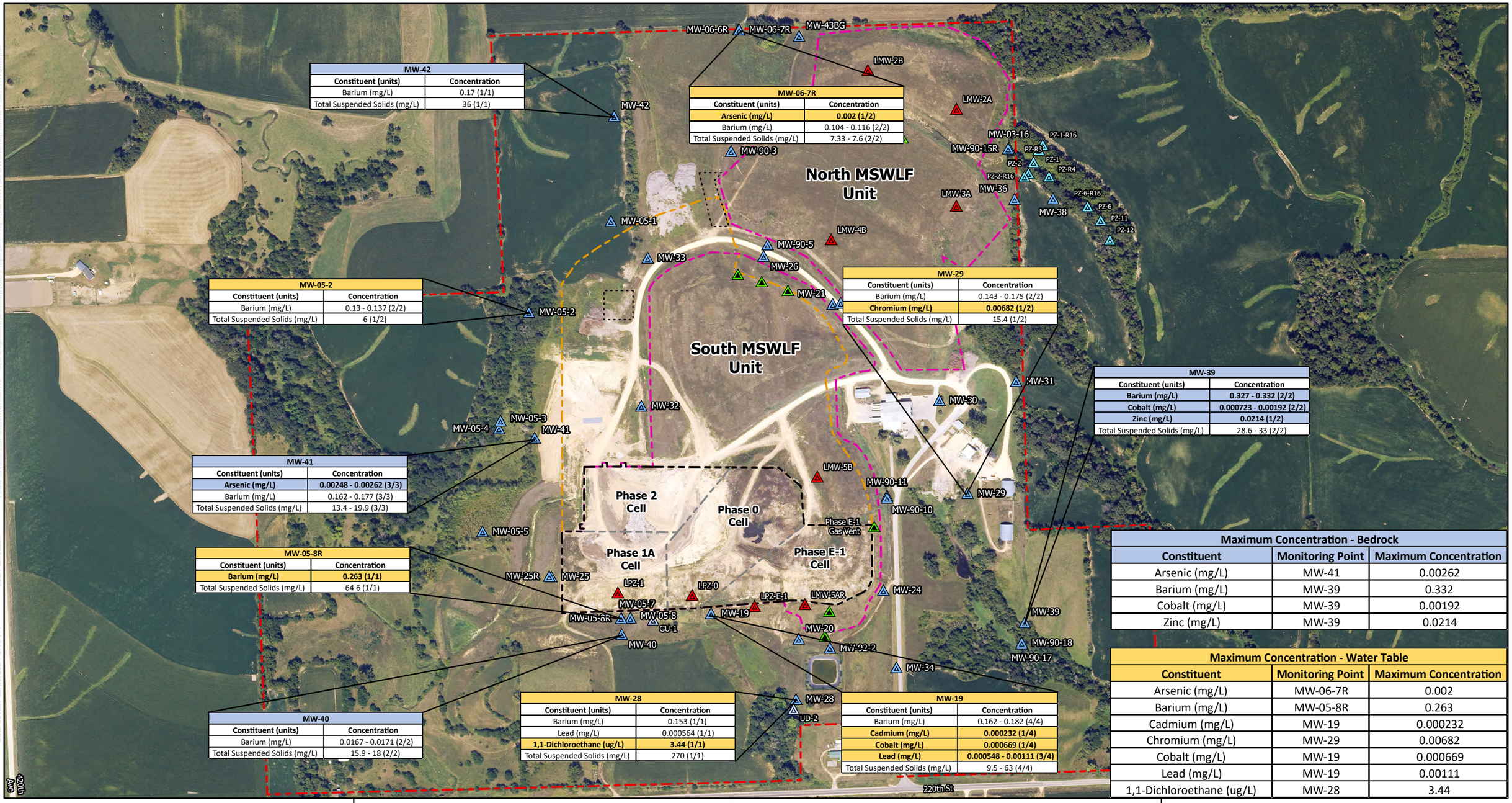
Legend

- Approximate Bedrock Groundwater Contours Based on Field Measurements Taken May 7-8, 2024
- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Leachate Monitoring Location
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximiate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

N
W
E
S

0 260 520 1,040 1,560
Feet



MW-42	
Constituent (units)	**Concentration**
Barium (mg/L)	0.17 (1/1)
Total Suspended Solids (mg/L)	36 (1/1)

MW-06-7R	
Constituent (units)	**Concentration**
Arsenic (mg/L)	**0.002 (1/2)**
Barium (mg/L)	0.104 - 0.116 (2/2)
Total Suspended Solids (mg/L)	7.33 - 7.6 (2/2)

MW-05-2	
Constituent (units)	**Concentration**
Barium (mg/L)	0.13 - 0.137 (2/2)
Total Suspended Solids (mg/L)	6 (1/2)

MW-29	
Constituent (units)	**Concentration**
Barium (mg/L)	0.143 - 0.175 (2/2)
Chromium (mg/L)	**0.00682 (1/2)**
Total Suspended Solids (mg/L)	15.4 (1/2)

MW-39	
Constituent (units)	**Concentration**
Barium (mg/L)	**0.327 - 0.332 (2/2)**
Cobalt (mg/L)	**0.000723 - 0.00192 (2/2)**
Zinc (mg/L)	**0.0214 (1/2)**
Total Suspended Solids (mg/L)	28.6 - 33 (2/2)

MW-41	
Constituent (units)	**Concentration**
Arsenic (mg/L)	**0.00248 - 0.00262 (3/3)**
Barium (mg/L)	0.162 - 0.177 (3/3)
Total Suspended Solids (mg/L)	13.4 - 19.9 (3/3)

MW-05-8R	
Constituent (units)	**Concentration**
Barium (mg/L)	**0.263 (1/1)**
Total Suspended Solids (mg/L)	64.6 (1/1)

MW-40	
Constituent (units)	**Concentration**
Barium (mg/L)	0.0167 - 0.0171 (2/2)
Total Suspended Solids (mg/L)	15.9 - 18 (2/2)

MW-28	
Constituent (units)	**Concentration**
Barium (mg/L)	0.153 (1/1)
Lead (mg/L)	0.000564 (1/1)
1,1-Dichloroethane (ug/L)	**3.44 (1/1)**
Total Suspended Solids (mg/L)	270 (1/1)

MW-19	
Constituent (units)	**Concentration**
Barium (mg/L)	0.162 - 0.182 (4/4)
Cadmium (mg/L)	**0.000232 (1/4)**
Cobalt (mg/L)	**0.000669 (1/4)**
Lead (mg/L)	**0.000548 - 0.00111 (3/4)**
Total Suspended Solids (mg/L)	9.5 - 63 (4/4)

Maximum Concentration - Bedrock		
Constituent	**Monitoring Point**	**Maximum Concentration**
Arsenic (mg/L)	MW-41	0.00262
Barium (mg/L)	MW-39	0.332
Cobalt (mg/L)	MW-39	0.00192
Zinc (mg/L)	MW-39	0.0214

Maximum Concentration - Water Table		
Constituent	**Monitoring Point**	**Maximum Concentration**
Arsenic (mg/L)	MW-06-7R	0.002
Barium (mg/L)	MW-05-8R	0.263
Cadmium (mg/L)	MW-19	0.000232
Chromium (mg/L)	MW-29	0.00682
Cobalt (mg/L)	MW-19	0.000669
Lead (mg/L)	MW-19	0.00111
1,1-Dichloroethane (ug/L)	MW-28	3.44

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Reporting Period Detection Summary

Legend

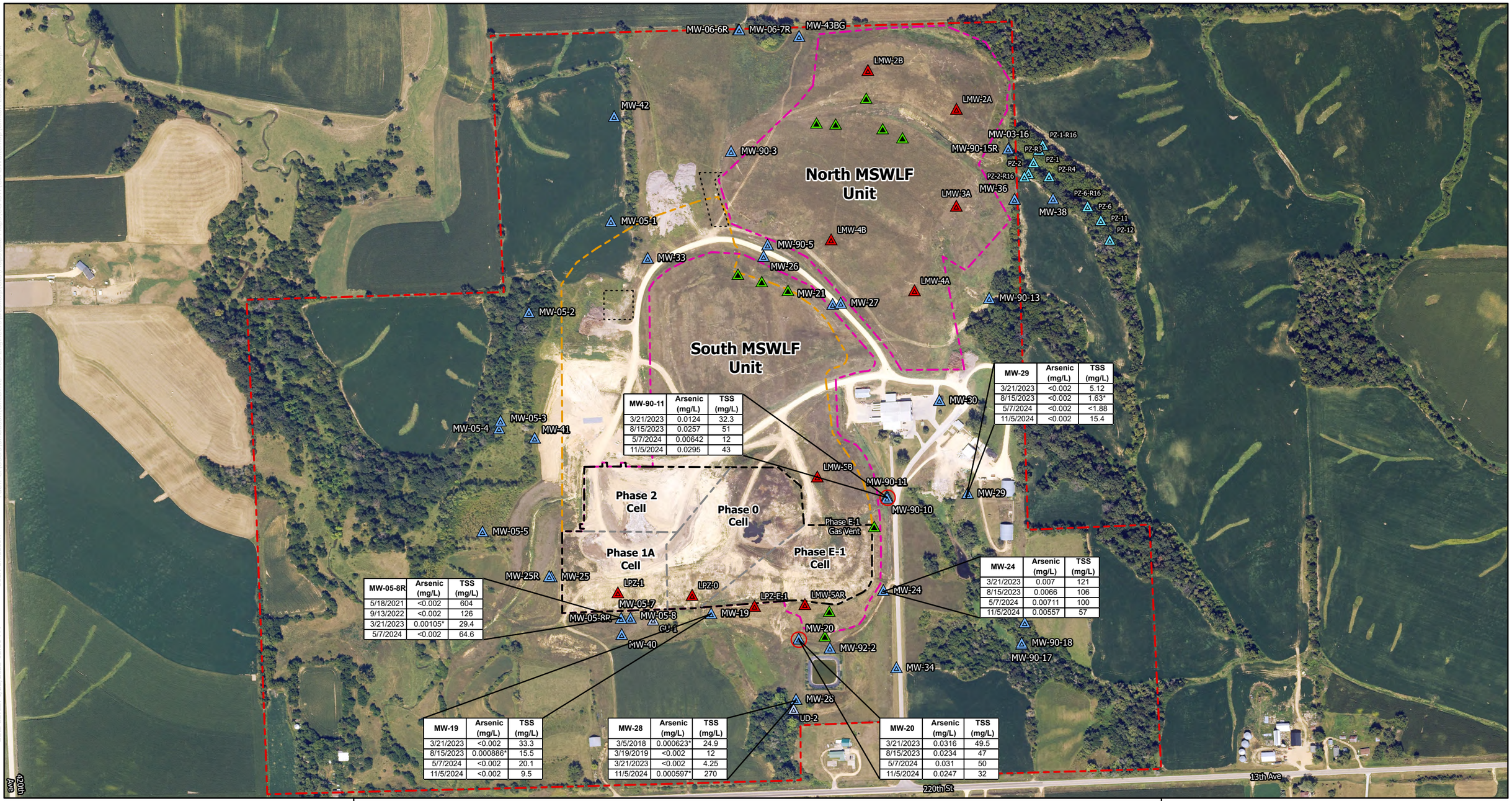
- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Leachate Monitoring Location
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

Figure 4

N W E S

0 260 520 1,040 1,560 Feet



MW-90-11	Arsenic (mg/L)	TSS (mg/L)
3/21/2023	0.0124	32.3
8/15/2023	0.0257	51
5/7/2024	0.00642	12
11/5/2024	0.0295	43

MW-29	Arsenic (mg/L)	TSS (mg/L)
3/21/2023	<0.002	5.12
8/15/2023	<0.002	1.63*
5/7/2024	<0.002	<1.88
11/5/2024	<0.002	15.4

MW-05-8R	Arsenic (mg/L)	TSS (mg/L)
5/18/2021	<0.002	604
9/13/2022	<0.002	126
3/21/2023	0.00105*	29.4
5/7/2024	<0.002	64.6

MW-24	Arsenic (mg/L)	TSS (mg/L)
3/21/2023	0.007	121
8/15/2023	0.0066	106
5/7/2024	0.00711	100
11/5/2024	0.00557	57

MW-19	Arsenic (mg/L)	TSS (mg/L)
3/21/2023	<0.002	33.3
8/15/2023	0.000886*	15.5
5/7/2024	<0.002	20.1
11/5/2024	<0.002	9.5

MW-28	Arsenic (mg/L)	TSS (mg/L)
3/5/2018	0.000623*	24.9
3/19/2019	<0.002	12
3/21/2023	<0.002	4.25
11/5/2024	0.000597*	270

MW-20	Arsenic (mg/L)	TSS (mg/L)
3/21/2023	0.0316	49.5
8/15/2023	0.0234	47
5/7/2024	0.031	50
11/5/2024	0.0247	32

Arsenic Concentration Map

Figure 5

Legend

- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Leachate Monitoring Location
- SSL Well
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

Arsenic Prediction Limit = 0.009086 mg/L

* J Flag concentrations are not included in the lists of detected parameters

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

N W E S

0 260 520 1,040 1,560 Feet

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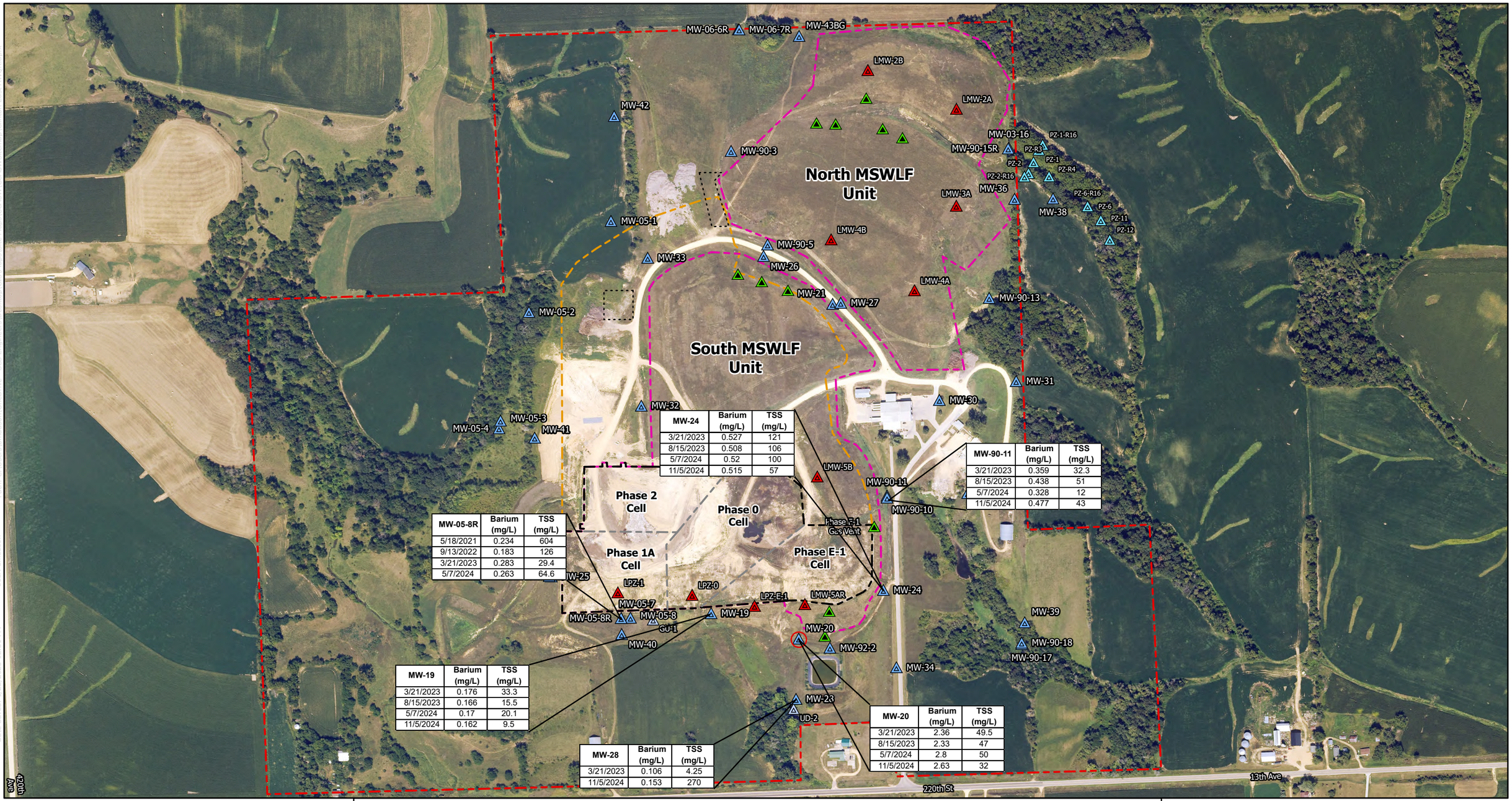

MW-24	Barium (mg/L)	TSS (mg/L)
3/21/2023	0.527	121
8/15/2023	0.508	106
5/7/2024	0.52	100
11/5/2024	0.515	57

MW-90-11	Barium (mg/L)	TSS (mg/L)
3/21/2023	0.359	32.3
8/15/2023	0.438	51
5/7/2024	0.328	12
11/5/2024	0.477	43

MW-05-8R	Barium (mg/L)	TSS (mg/L)
5/18/2021	0.234	604
9/13/2022	0.183	126
3/21/2023	0.283	29.4
5/7/2024	0.263	64.6

MW-19	Barium (mg/L)	TSS (mg/L)
3/21/2023	0.176	33.3
8/15/2023	0.166	15.5
5/7/2024	0.17	20.1
11/5/2024	0.162	9.5

MW-20	Barium (mg/L)	TSS (mg/L)
3/21/2023	2.36	49.5
8/15/2023	2.33	47
5/7/2024	2.8	50
11/5/2024	2.63	32

MW-28	Barium (mg/L)	TSS (mg/L)
3/21/2023	0.106	4.25
11/5/2024	0.153	270

Barium Concentration Map

Figure 6

Legend

- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Leachate Monitoring Location
- SSL Well
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary

Barium Prediction Limit = 0.5013 mg/L

- Approximate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

* J Flag concentrations are not included in the lists of detected parameters

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

N W E S

0 260 520 1,040 1,560 Feet

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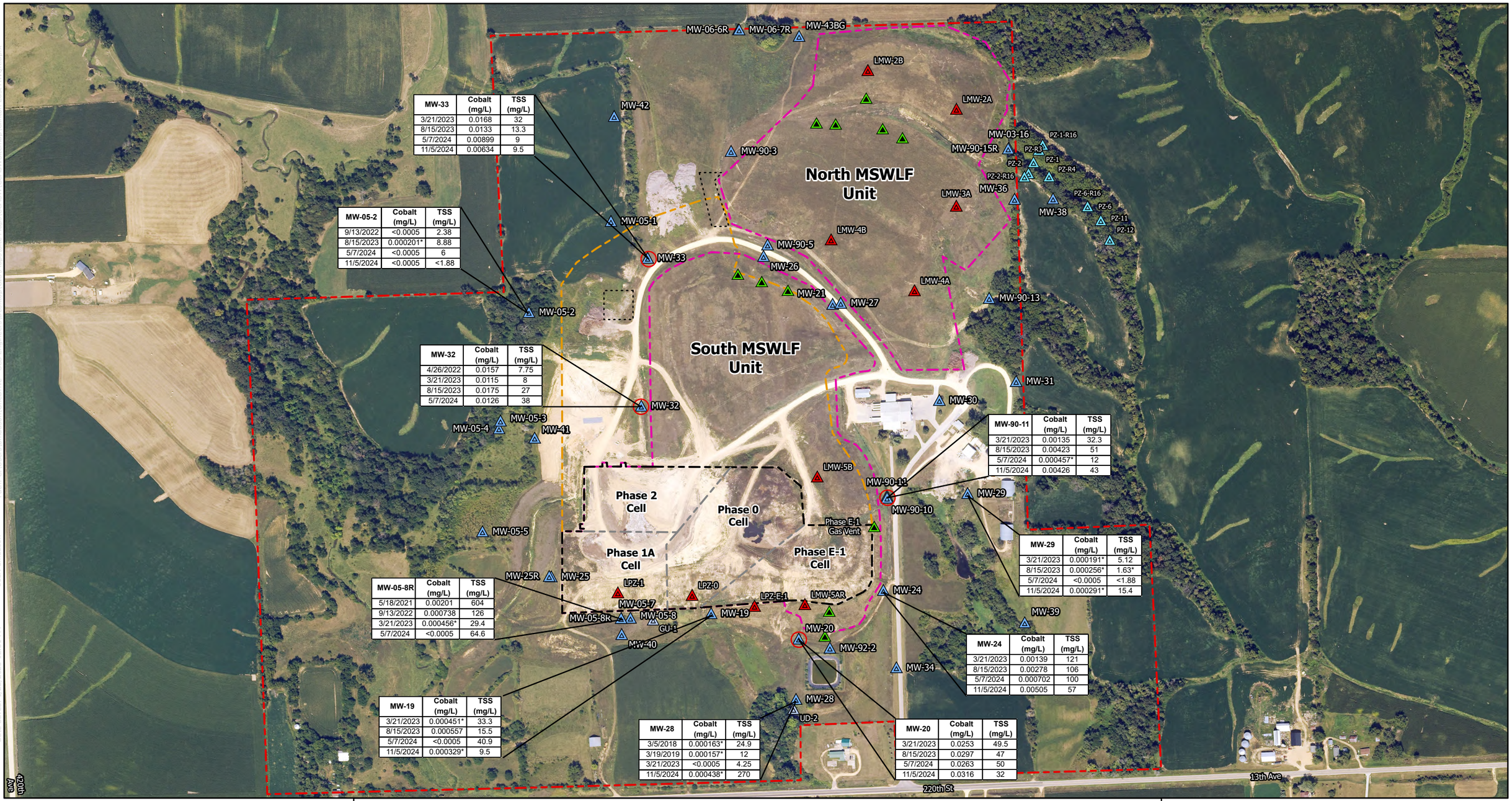

MW-33	Cobalt (mg/L)	TSS (mg/L)
3/21/2023	0.0168	32
8/15/2023	0.0133	13.3
5/7/2024	0.00899	9
11/5/2024	0.00634	9.5

MW-05-2	Cobalt (mg/L)	TSS (mg/L)
9/13/2022	<0.0005	2.38
8/15/2023	0.000201*	8.88
5/7/2024	<0.0005	6
11/5/2024	<0.0005	<1.88

MW-32	Cobalt (mg/L)	TSS (mg/L)
4/26/2022	0.0157	7.75
3/21/2023	0.0115	8
8/15/2023	0.0175	27
5/7/2024	0.0126	38

MW-90-11	Cobalt (mg/L)	TSS (mg/L)
3/21/2023	0.00135	32.3
8/15/2023	0.00423	51
5/7/2024	0.000457*	12
11/5/2024	0.00426	43

MW-29	Cobalt (mg/L)	TSS (mg/L)
3/21/2023	0.000191*	5.12
8/15/2023	0.000256*	1.63*
5/7/2024	<0.0005	<1.88
11/5/2024	0.000291*	15.4

MW-05-8R	Cobalt (mg/L)	TSS (mg/L)
5/18/2021	0.00201	604
9/13/2022	0.000738	126
3/21/2023	0.000456*	29.4
5/7/2024	<0.0005	64.6

MW-24	Cobalt (mg/L)	TSS (mg/L)
3/21/2023	0.00139	121
8/15/2023	0.00278	106
5/7/2024	0.000702	100
11/5/2024	0.00505	57

MW-19	Cobalt (mg/L)	TSS (mg/L)
3/21/2023	0.000451*	33.3
8/15/2023	0.000557	15.5
5/7/2024	<0.0005	40.9
11/5/2024	0.000329*	9.5

MW-28	Cobalt (mg/L)	TSS (mg/L)
3/5/2018	0.000163*	24.9
3/19/2019	0.000157*	12
3/21/2023	<0.0005	4.25
11/5/2024	0.000438*	270

MW-20	Cobalt (mg/L)	TSS (mg/L)
3/21/2023	0.0253	49.5
8/15/2023	0.0297	47
5/7/2024	0.0263	50
11/5/2024	0.0316	32

Cobalt Concentration Map

Figure 7

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Legend

- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Leachate Monitoring Location
- SSL Well
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

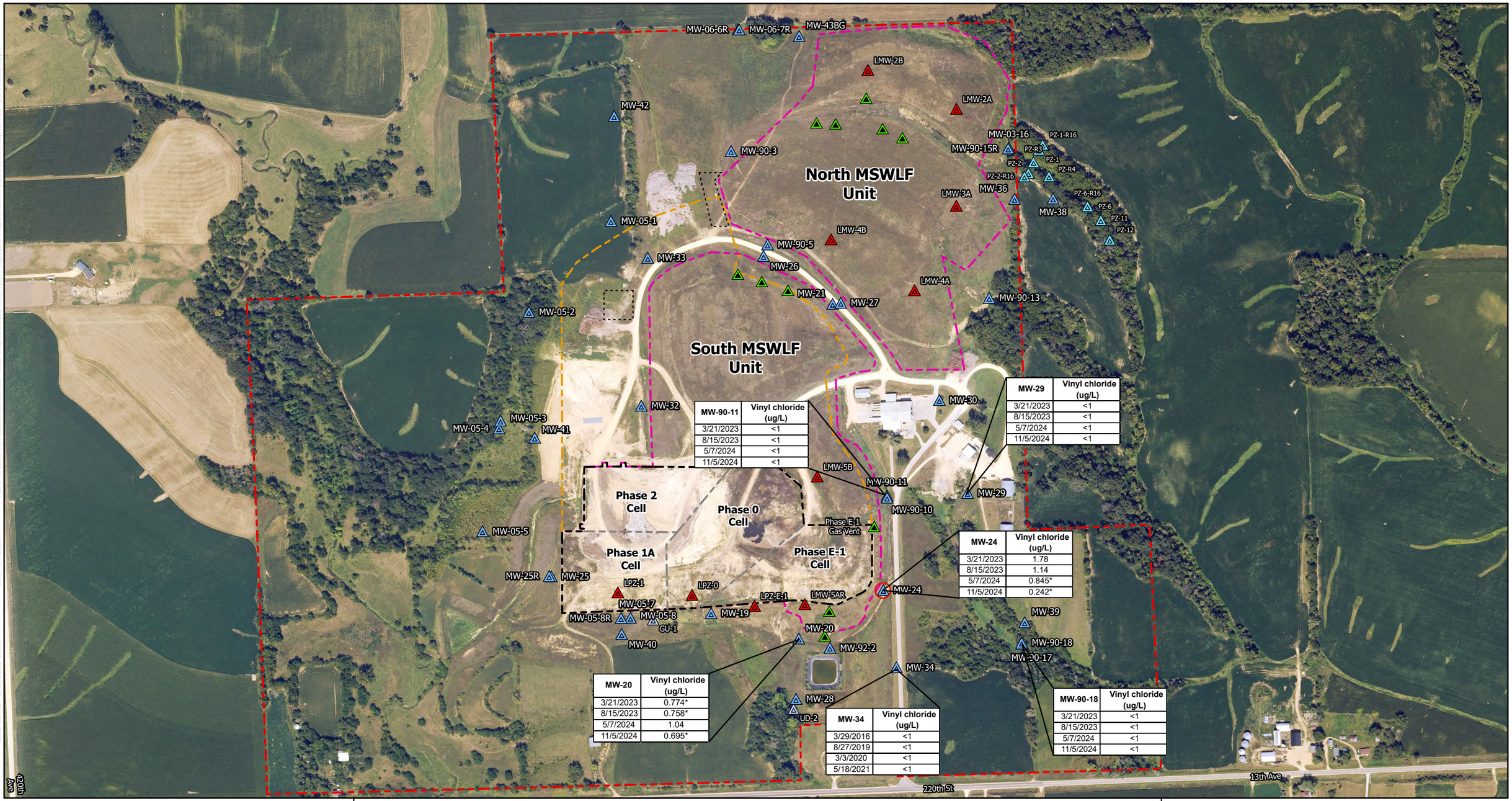
Cobalt Prediction Limit = 0.000377 mg/L

* J Flag concentrations are not included in the lists of detected parameters

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

N W E S

0 260 520 1,040 1,560 Feet



MW-90-11	Vinyl chloride (ug/L)
3/21/2023	<1
8/15/2023	<1
5/7/2024	<1
11/5/2024	<1

MW-29	Vinyl chloride (ug/L)
3/21/2023	<1
8/15/2023	<1
5/7/2024	<1
11/5/2024	<1

MW-24	Vinyl chloride (ug/L)
3/21/2023	1.78
8/15/2023	1.14
5/7/2024	0.845*
11/5/2024	0.242*

MW-20	Vinyl chloride (ug/L)
3/21/2023	0.774*
8/15/2023	0.758*
5/7/2024	1.04
11/5/2024	0.695*

MW-34	Vinyl chloride (ug/L)
3/29/2016	<1
8/27/2019	<1
3/3/2020	<1
5/18/2021	<1

MW-90-18	Vinyl chloride (ug/L)
3/21/2023	<1
8/15/2023	<1
5/7/2024	<1
11/5/2024	<1

Vinyl Chloride Concentration Map

Figure 8

Legend

- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Leachate Monitoring Location
- SSL Well
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

Vinyl Chloride Prediction Limit = < 1 ug/L

* J Flag concentrations are not included in the lists of detected parameters

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

N W E S

0 260 520 1,040 1,560 Feet

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Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-05-2**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	32.0
Initial Static Water Level (feet):	9.72
Initial Groundwater Elevation (ft-amsl):	701.97
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
8:30 AM	Purging start time.						
8:33 AM	10.8	5.5	761.2	6.75	111.0	16.9	
8:36 AM	10.7	4.9	758.0	6.67	118.3	11.3	
8:39 AM	10.6	4.7	756.8	6.66	121.4	14.2	
8:42 AM	10.5	4.6	756.5	6.66	123.3	15.4	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-05-3**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	No	No peri cap on well
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	26.0
Initial Static Water Level (feet):	24.57
Initial Groundwater Elevation (ft-amsl):	688.35
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Well did not have sufficient water to sample.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-05-8R**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	52.6
Initial Static Water Level (feet):	42.31
Initial Groundwater Elevation (ft-amsl):	655.35
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
1:30 PM	Purging start time.						
1:33 PM	15.3	9.3	1123.5	7.40	55.3	40.9	
1:36 PM	15.9	9.3	1116.4	7.39	62.2	34.3	
1:39 PM	17.4	9.3	1119.2	7.38	65.0	32.3	
1:42 PM	18.4	8.7	1120.6	7.49	62.3	57.5	
1:45 PM	15.4	9.2	1111.8	7.40	68.9	41.9	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	15:00
Average Purge Rate (mL/min):	146.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Slight yellow tint Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-06-7R**	Date:	**5/7/2024**
Gradient:	Up	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	39.4
Initial Static Water Level (feet):	20.56
Initial Groundwater Elevation (ft-amsl):	725.69
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
8:33 AM	Purging start time.						
8:36 AM	11.5	0.9	494.4	7.10	-93.4	11.0	
8:39 AM	11.7	0.2	494.7	7.07	-104.9	5.8	
8:42 AM	11.7	<0.1	495.1	7.07	-110.1	4.5	
8:45 AM	11.8	<0.1	494.8	7.07	-113.2	4.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	233.33

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear with black particulates. Odor-Strong Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-19**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	No	No peri cap on well
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	30.3
Initial Static Water Level (feet):	17.76
Initial Groundwater Elevation (ft-amsl):	669.06
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
12:25 PM	Purging start time.						
12:28 PM	14.2	3.1	1332.0	6.59	-28.5	59.7	
12:31 PM	14.3	2.6	1289.4	6.55	-5.6	36.1	
12:34 PM	14.3	2.5	1284.4	6.53	9.9	30.4	
12:37 PM	14.2	2.4	1283.5	6.52	21.5	30.5	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	Yes	
If yes, explain:	Well needs a new peri cap.	

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-20**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.2
Initial Static Water Level (feet):	15.80
Initial Groundwater Elevation (ft-amsl):	670.95
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
11:39 AM	Purging start time.						
11:42 AM	13.8	1.2	2203.8	6.17	-19.9	4.2	
11:45 AM	14.0	0.3	2230.5	6.18	-29.8	2.8	
11:48 AM	13.9	0.1	2233.6	6.19	-37.4	2.8	
11:51 AM	13.9	<0.1	2236.1	6.20	-42.1	2.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.7
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	141.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-Oily Smell

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-24**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	35.4
Initial Static Water Level (feet):	13.21
Initial Groundwater Elevation (ft-amsl):	694.06
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
9:12 AM	Purging start time.						
9:15 AM	14.4	1.5	1772.3	6.16	-59.9	4.8	
9:18 AM	14.6	0.3	1796.1	6.18	-71.2	5.9	
9:21 AM	14.6	0.1	1801.8	6.21	-77.1	9.9	
9:24 AM	14.4	<0.1	1803.6	6.23	-81.0	11.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-25R**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	50.3
Initial Static Water Level (feet):	49.91
Initial Groundwater Elevation (ft-amsl):	652.88
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Well does not have sufficient water to sample.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-28**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	26.5
Initial Static Water Level (feet):	24.92
Initial Groundwater Elevation (ft-amsl):	640.23
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Well does not have sufficient water to sample.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-29**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	23.1
Initial Static Water Level (feet):	15.93
Initial Groundwater Elevation (ft-amsl):	688.85
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
10:12 AM	Purging start time.						
10:15 AM	12.4	7.0	894.6	6.80	20.2	2.8	
10:18 AM	12.4	6.9	882.3	6.70	41.6	2.6	
10:21 AM	12.4	6.9	884.2	6.66	55.1	2.8	
10:24 AM	12.5	6.8	889.0	6.64	65.0	2.8	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.7
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	141.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-32**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	34.7
Initial Static Water Level (feet):	27.68
Initial Groundwater Elevation (ft-amsl):	705.75
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
4:16 PM	Purging start time.						
4:19 PM	15.0	0.5	1292.1	6.38	-58.4	6.3	
4:22 PM	15.4	0.2	1279.6	6.36	-60.8	5.5	
4:25 PM	16.5	0.2	1275.2	6.33	-62.7	5.4	
4:28 PM	14.5	<0.1	1277.2	6.33	-63.1	4.9	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	208.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Slight yellow tint Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-33**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	23.4
Initial Static Water Level (feet):	10.71
Initial Groundwater Elevation (ft-amsl):	724.31
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
3:15 PM	Purging start time.						
3:18 PM	14.5	0.8	1260.5	6.30	-41.5	5.3	
3:21 PM	14.1	0.1	1257.1	6.27	-38.9	6.8	
3:24 PM	14.2	<0.1	1253.6	6.27	-39.8	10.1	
3:27 PM	13.7	<0.1	1251.2	6.27	-41.0	15.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-34**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	38.0
Initial Static Water Level (feet):	Dry
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Dedicated Bailer

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Well did not have sufficient water to sample.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-39**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	120.1
Initial Static Water Level (feet):	42.61
Initial Groundwater Elevation (ft-amsl):	631.02
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
9:29 AM	Purging start time.						
9:32 AM	12.9	0.6	659.6	6.94	-68.5	17.4	
9:35 AM	12.2	0.2	661.8	6.91	-73.9	19.7	
9:38 AM	12.4	<0.1	659.8	6.89	-77.1	24.1	
9:41 AM	12.5	<0.1	659.0	6.89	-78.7	22.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	3.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	316.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear with a light brown tint Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-40**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	94.0
Initial Static Water Level (feet):	72.86
Initial Groundwater Elevation (ft-amsl):	645.23
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
12:15 PM	Purging start time.						
12:18 PM	17.7	3.5	693.8	6.96	39.7	10.9	
12:21 PM	15.4	3.5	689.2	6.90	48.0	13.0	
12:24 PM	14.5	3.0	684.5	6.89	50.0	10.6	
12:27 PM	13.9	2.9	682.4	6.89	49.4	9.7	
12:30 PM	14.4	3.2	683.3	6.88	51.0	9.5	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	3.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	15:00
Average Purge Rate (mL/min):	220.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-41**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	110.5
Initial Static Water Level (feet):	57.22
Initial Groundwater Elevation (ft-amsl):	661.05
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
4:55 PM	Purging start time.						
4:58 PM	13.1	0.6	764.3	6.97	-74.4	40.6	
5:01 PM	13.2	0.2	763.3	6.91	-69.6	39.8	
5:04 PM	13.9	0.1	764.0	6.87	-65.0	28.7	
5:07 PM	14.0	0.1	764.9	6.85	-59.9	20.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	208.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Cloudy Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-42**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	84.3
Initial Static Water Level (feet):	60.02
Initial Groundwater Elevation (ft-amsl):	676.32
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
5:46 PM	Purging start time.						
5:49 PM	14.4	4.4	703.7	6.93	12.1	28.8	
5:52 PM	14.5	4.1	702.7	6.86	21.3	24.3	
5:55 PM	14.0	3.9	700.0	6.85	26.6	25.1	
5:58 PM	15.6	4.0	704.4	6.83	29.8	26.2	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-90-11**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	31.0
Initial Static Water Level (feet):	9.58
Initial Groundwater Elevation (ft-amsl):	698.02
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
10:56 AM	Purging start time.						
10:59 AM	13.3	2.0	1403.7	6.43	85.8	33.7	
11:02 AM	13.6	0.4	1420.7	6.42	80.8	90.6	
11:05 AM	13.6	0.1	1423.1	6.43	77.6	58.0	
11:08 AM	13.4	<0.1	1421.8	6.43	74.1	110.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	125.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Yellow tint Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-90-18**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.2
Initial Static Water Level (feet):	3.80
Initial Groundwater Elevation (ft-amsl):	652.36
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
11:22 AM	Purging start time.						
11:25 AM	11.1	0.6	816.1	7.16	7.6	6.7	
11:28 AM	10.7	<0.1	814.5	7.08	21.6	6.6	
11:31 AM	10.7	<0.1	813.6	7.06	27.9	5.6	
11:34 AM	10.9	<0.1	811.9	7.05	31.4	4.9	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	200.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-06-7R**	Date:	**11/6/2024**
Gradient:	Up	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	42.1
Initial Static Water Level (feet):	26.27
Initial Groundwater Elevation (ft-amsl):	719.98
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
10:56 AM	Purging start time.						
10:59 AM	11.2	1.4	531.0	7.35	-164.9	50.1	
11:02 AM	11.3	0.1	529.9	7.34	-168.5	23.8	
11:05 AM	11.5	<0.1	529.0	7.34	-170.1	14.7	
11:08 AM	11.6	<0.1	529.2	7.34	-171.3	11.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color: Clear/ Black particles Odor: Swampy ODO read negative during stabilization. Completed sample and recalibrated.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-05-2**	Date:	**11/7/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	32.1
Initial Static Water Level (feet):	14.36
Initial Groundwater Elevation (ft-amsl):	697.33
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:17 AM	Purging start time.						
10:20 AM	11.1	3.9	822.3	6.92	141.1	2.7	
10:23 AM	11.1	3.5	815.4	6.89	148.7	2.5	
10:26 AM	11.1	3.4	811.3	6.88	154.4	2.5	
10:29 AM	11.2	3.4	808.5	6.88	159.5	2.5	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Clear Odor:None Well is located within trees and thorn bushes. May need to be cleared in the future.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-05-8**	Date:	**11/5/2024**
Gradient:	Up	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	52.3
Initial Static Water Level (feet):	Dry
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Well did not have sufficient water to sample.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-90-11**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	31.0
Initial Static Water Level (feet):	11.20
Initial Groundwater Elevation (ft-amsl):	696.40
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
9:18 AM	Purging start time.						
9:21 AM	14.1	0.6	1634.8	6.52	-58.9	6.3	
9:24 AM	14.2	0.2	1636.8	6.52	-68.4	15.2	
9:27 AM	14.2	<0.1	1629.1	6.52	-73.3	29.8	
9:30 AM	14.0	<0.1	1622.3	6.52	-76.8	22.3	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Clear Odor:None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-90-18**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	25.3
Initial Static Water Level (feet):	3.25
Initial Groundwater Elevation (ft-amsl):	652.91
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
11:42 AM	Purging start time.						
11:45 AM	13.1	5.1	771.7	7.06	108.6	6.3	
11:48 AM	13.2	4.8	771.5	7.06	133.1	7.6	
11:51 AM	13.1	4.7	771.2	7.07	146.4	5.1	
11:54 AM	13.1	4.7	770.5	7.07	156.5	5.2	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Clear Odor:None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-19**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	No	No lid on casing or peri cap
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	30.2
Initial Static Water Level (feet):	24.80
Initial Groundwater Elevation (ft-amsl):	662.02
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:50 PM	Purging start time.						
12:53 PM	14.0	0.7	1301.1	6.54	118.3	34.8	
12:56 PM	14.0	0.2	1324.4	6.57	112.5	31.6	
12:59 PM	14.3	1.4	1334.3	6.62	54.1	51.9	
1:02 PM	14.1	0.3	1349.3	6.59	-44.1	161.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	125.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	Yes	
If yes, explain:	Well needs a lid on top of casing and needs a peri cap.	

Additional Comments:	Color:Clear Odor:None Duplicate MW-D1 collected.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-20**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.2
Initial Static Water Level (feet):	16.60
Initial Groundwater Elevation (ft-amsl):	670.15
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:08 PM	Purging start time.						
12:11 PM	14.0	0.4	2454.9	6.38	-94.2	1.8	
12:14 PM	14.0	0.1	2468.7	6.40	-97.6	1.9	
12:17 PM	14.0	<0.1	2457.5	6.39	-95.3	2.0	
12:20 PM	14.0	<0.1	2455.7	6.39	-95.1	2.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Clear Odor:None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-24**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	35.4
Initial Static Water Level (feet):	16.55
Initial Groundwater Elevation (ft-amsl):	690.72
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
11:52 AM	Purging start time.						
11:55 AM	13.9	NM	1862.5	6.46	-108.2	2.3	
11:58 AM	14.0	NM	1876.3	6.47	-113.9	1.9	
12:01 PM	14.0	NM	1877.5	6.47	-117.7	1.9	
12:04 PM	14.0	NM	1875.7	6.47	-119.9	1.8	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Clear Odor:None Equipment Malfunction - Dissolved Oxygen not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-25R**	Date:	**11/7/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	50.2
Initial Static Water Level (feet):	Dry
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Well did not have sufficient water to sample.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-28**	Date:	**11/7/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	30.1
Initial Static Water Level (feet):	26.00
Initial Groundwater Elevation (ft-amsl):	639.63
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:45 PM	Purging start time.						
12:48 PM	13.6	4.2	1031.9	6.73	168.1	1287.4	
12:51 PM	13.7	2.9	1037.1	6.72	171.3	617.4	
12:54 PM	13.3	2.7	1037.2	6.72	174.3	367.9	
12:57 PM	13.1	2.5	1037.5	6.72	177.0	215.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	208.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Cloudy Odor:Swampy

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-29**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	23.1
Initial Static Water Level (feet):	19.04
Initial Groundwater Elevation (ft-amsl):	685.74
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:29 AM	Purging start time.						
10:32 AM	13.1	2.5	1115.1	6.72	158.1	2.7	
10:35 AM	13.2	2.3	1100.5	6.74	179.0	8.1	
10:38 AM	13.3	2.8	1072.9	6.76	190.0	19.0	
10:41 AM	13.2	2.6	1079.3	6.75	191.9	23.2	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Clear Odor:None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-32**	Date:	**11/6/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	37.2
Initial Static Water Level (feet):	34.40
Initial Groundwater Elevation (ft-amsl):	699.03
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Well did not have sufficient water to sample. Well went dry while stabilizing.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-33**	Date:	**11/6/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	23.4
Initial Static Water Level (feet):	16.26
Initial Groundwater Elevation (ft-amsl):	718.76
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
8:11 AM	Purging start time.						
8:14 AM	12.3	0.7	1262.5	6.45	-87.0	2.7	
8:17 AM	12.5	0.1	1279.5	6.45	-96.5	3.5	
8:20 AM	12.6	<0.1	1284.1	6.45	-102.3	3.5	
8:23 AM	12.7	<0.1	1287.3	6.44	-103.6	3.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Clear Odor:Swampy

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-34**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	38.0
Initial Static Water Level (feet):	Dry
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Dedicated Bailer

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Well did not have sufficient water to sample.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-39**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	118.0
Initial Static Water Level (feet):	41.12
Initial Groundwater Elevation (ft-amsl):	632.51
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
11:04 AM	Purging start time.						
11:07 AM	12.4	1.0	682.2	7.13	-139.2	8.6	
11:10 AM	12.5	0.3	683.6	7.11	-151.3	16.6	
11:13 AM	12.3	0.1	682.3	7.10	-156.8	19.3	
11:16 AM	12.2	<0.1	681.3	7.09	-157.0	19.3	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	233.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Clear Odor:Swampy Flow kept stopping; could not pump slower.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-40**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	93.5
Initial Static Water Level (feet):	72.80
Initial Groundwater Elevation (ft-amsl):	645.29
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:27 PM	Purging start time.						
2:30 PM	12.9	2.6	713.5	7.01	120.9	12.7	
2:33 PM	12.8	1.8	711.0	7.01	146.1	12.0	
2:36 PM	13.1	2.0	710.2	7.00	159.6	11.1	
2:39 PM	12.8	2.7	711.5	7.00	175.2	11.2	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	216.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Clear Odor:None

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East, South Unit**		
Monitoring Well/Piezometer ID:	**MW-41**	Date:	**11/5/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	111.3
Initial Static Water Level (feet):	59.40
Initial Groundwater Elevation (ft-amsl):	658.87
Equipment Used:	Non-Dedicated Stainless Steel Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
3:17 PM	Purging start time.						
3:20 PM	12.5	0.5	796.7	7.00	-146.5	39.3	
3:23 PM	12.1	0.1	801.0	6.99	-146.9	61.3	
3:26 PM	11.9	<0.1	798.3	6.98	-123.3	31.9	
3:29 PM	12.2	<0.1	795.0	6.97	-105.1	18.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	3.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	250.00

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color:Grey/Cloudy Odor:Swampy Could not pump slower or else it would lose the flow.

FORM FOR GROUNDWATER SAMPLING

Project:	**Clinton County Sanitary Landfill-East South**		
Monitoring Well/Piezometer ID:	**MW-42**	Date:	**11/7/2024**
Gradient:	Down	Sampler:	Cole Tesar

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	0.00
Initial Groundwater Elevation (ft-amsl):	0.00
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Can not locate well due to corn not being harvested.

Appendix B-1

Laboratory Analytical Data Sheets

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Nathan Ohrt
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 5/23/2024 4:49:39 PM

JOB DESCRIPTION

Clinton County Landfill - East South Unit
1st 2024 HMSP
East, South Unit 1st 2024 HMSP

JOB NUMBER

310-280913-1

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

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5/23/2024 4:49:39 PM

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Table of Contents

Job ID: 310-280913-1 Eurofins Cedar Falls

Job Narrative
310-280913-1

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 5/9/2024 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -0.6°C, 1.6°C and 4.3°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 310-422067 recovered above the upper control limit for cis-1,3-Dichloropropene (21.9%D) and Methyl isobutyl ketone (MIBK) (21.4%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 310-422067/3).

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 310-421270. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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.

HPLC/IC
Method 9056A_ORGFM_48H: The following samples were received outside of holding time: MW-90-11 (310-280913-4), MW-20 (310-280913-6), MW-24 (310-280913-7), MW-32 (310-280913-9) and MW-33 (310-280913-10). Per email, client directs to proceed with analysis.

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.

Job ID: 310-280913-2 Eurofins Cedar Falls

Job Narrative
310-280913-2

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 5/9/2024 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -0.6°C, 1.6°C and 4.3°C.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-280913-1	MW-06-7R	Groundwater	05/07/24 08:46	05/09/24 16:05
310-280913-2	MW-05-02	Groundwater	05/08/24 08:52	05/09/24 16:05
310-280913-3	MW-05-8R	Groundwater	05/07/24 13:54	05/09/24 16:05
310-280913-4	MW-90-11	Groundwater	05/07/24 11:20	05/09/24 16:05
310-280913-5	MW-19	Groundwater	05/07/24 12:50	05/09/24 16:05
310-280913-6	MW-20	Groundwater	05/07/24 12:05	05/09/24 16:05
310-280913-7	MW-24	Groundwater	05/07/24 09:36	05/09/24 16:05
310-280913-8	MW-29	Groundwater	05/07/24 10:36	05/09/24 16:05
310-280913-9	MW-32	Groundwater	05/07/24 16:37	05/09/24 16:05
310-280913-10	MW-33	Groundwater	05/07/24 15:57	05/09/24 16:05
310-280913-11	MW-D1	Groundwater	05/07/24 12:50	05/09/24 16:05
310-280913-12	MW-90-18	Groundwater	05/08/24 11:38	05/09/24 16:05
310-280913-13	Trip Blank	Water	05/08/24 00:00	05/09/24 16:05
310-280913-14	Trip Blank	Water	05/08/24 00:00	05/09/24 16:05

Detection Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-06-7R — Lab Sample ID: 310-280913-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00137	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.104		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	7.33		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-05-02 — Lab Sample ID: 310-280913-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.130		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00228	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Selenium	0.00190	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	6.00		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-05-8R — Lab Sample ID: 310-280913-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.263		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00293	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Copper	0.00187	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000336	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00496	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00288	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	64.6		3.00	2.22	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-90-11 — Lab Sample ID: 310-280913-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.637	J	1.00	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	1.25		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.254	J	1.00	0.210	ug/L	1		8260D	Total/NA
Sulfate	31.5		1.00	0.420	mg/L	1		9056A	Total/NA
Arsenic	0.00642		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.328		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000457	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00266	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Iron	3.67		0.100	0.0360	mg/L	1		6020B	Total/NA
Manganese	0.117		0.0100	0.00360	mg/L	1		6020B	Total/NA
Total Suspended Solids	12.0		1.88	1.39	mg/L	1		I-3765-85	Total/NA
Total Organic Carbon	4.01		1.00	0.500	mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 310-280913-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000671	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.182		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000116	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Copper	0.00240	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000576		0.000500	0.000260	mg/L	1		6020B	Total/NA
Vanadium	0.00142	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	40.9		1.88	1.39	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-20 — Lab Sample ID: 310-280913-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	10.4		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	0.463	J	1.00	0.390	ug/L	1		8260D	Total/NA
Benzene	1.22		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	0.504	J	1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	5.66		4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.22		1.00	0.210	ug/L	1		8260D	Total/NA
Vinyl chloride	1.04		1.00	0.180	ug/L	1		8260D	Total/NA
Nitrate as N	0.108	J H H3	0.200	0.0780	mg/L	1		9056A	Total/NA
Sulfate	26.9		1.00	0.420	mg/L	1		9056A	Total/NA
Arsenic	0.0310		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	2.80		0.00800	0.00264	mg/L	4		6020B	Total/NA
Cobalt	0.0263		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0345		0.00500	0.00210	mg/L	1		6020B	Total/NA
Iron	24.2		0.100	0.0360	mg/L	1		6020B	Total/NA
Manganese	11.0		0.0400	0.0144	mg/L	4		6020B	Total/NA
Total Suspended Solids	50.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA
Total Organic Carbon	5.05		1.00	0.500	mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-24 — Lab Sample ID: 310-280913-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.15		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	0.724	J	1.00	0.270	ug/L	1		8260D	Total/NA
Benzene	2.24		0.500	0.220	ug/L	1		8260D	Total/NA
Chloroethane	4.06		4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.676	J	1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.295	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	0.845	J	1.00	0.180	ug/L	1		8260D	Total/NA
Sulfate	0.448	J	1.00	0.420	mg/L	1		9056A	Total/NA
Arsenic	0.00711		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.520		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000702		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	43.8		0.100	0.0360	mg/L	1		6020B	Total/NA
Manganese	0.972		0.0100	0.00360	mg/L	1		6020B	Total/NA
Total Suspended Solids	100		15.0	11.1	mg/L	1		I-3765-85	Total/NA
Total Organic Carbon	6.01		1.00	0.500	mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-29 — Lab Sample ID: 310-280913-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.143		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00682		0.00500	0.00120	mg/L	1		6020B	Total/NA
Vanadium	0.00217	J	0.00500	0.00110	mg/L	1		6020B	Total/NA

Client Sample ID: MW-32 — Lab Sample ID: 310-280913-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.525	J	1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	2.13		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	1.52		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.645	J	1.00	0.210	ug/L	1		8260D	Total/NA
Ethylbenzene	0.515	J	1.00	0.310	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-32 (Continued) — Lab Sample ID: 310-280913-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	1.42	J	3.00	0.400	ug/L	1		8260D	Total/NA
Sulfate	29.0		1.00	0.420	mg/L	1		9056A	Total/NA
Arsenic	0.0153		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.183		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0126		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	19.5		0.100	0.0360	mg/L	1		6020B	Total/NA
Manganese	4.35		0.0100	0.00360	mg/L	1		6020B	Total/NA
Total Suspended Solids	38.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA
Total Organic Carbon	2.34		1.00	0.500	mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-33 — Lab Sample ID: 310-280913-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.82	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	1.34		0.500	0.220	ug/L	1		8260D	Total/NA
Methylphenol, 3 & 4	14.2		10.0	0.700	ug/L	1		8270E	Total/NA
2,4-D	2.05	J	2.97	1.24	ug/L	5		8151A	Total/NA
Sulfate	0.531	J	1.00	0.420	mg/L	1		9056A	Total/NA
Arsenic	0.00484		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.135		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00899		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00717		0.00500	0.00210	mg/L	1		6020B	Total/NA
Iron	3.00		0.100	0.0360	mg/L	1		6020B	Total/NA
Vanadium	0.00112	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Manganese	1.57		0.0100	0.00360	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.00		3.75	2.78	mg/L	1		I-3765-85	Total/NA
Total Organic Carbon	5.41		1.00	0.500	mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-D1 — Lab Sample ID: 310-280913-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.170		0.00200	0.000660	mg/L	1		6020B	Total/NA
Lead	0.000325	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Vanadium	0.00117	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	20.1		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-90-18 — Lab Sample ID: 310-280913-12

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 310-280913-13

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 310-280913-14

No Detections.

This Detection Summary does not include radiochemical test results.

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Groundwater	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Groundwater	Total/NA	ug/L	0.340	1
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

Client Sample ID: MW-06-7R

Date Collected: 05/07/24 08:46
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-1

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/15/24 12:56	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/15/24 12:56	1
Benzene	<0.500		0.500	0.220	ug/L			05/15/24 12:56	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/15/24 12:56	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/15/24 12:56	1
Bromoform	<5.00		5.00	0.780	ug/L			05/15/24 12:56	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/15/24 12:56	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/15/24 12:56	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/15/24 12:56	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/15/24 12:56	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/15/24 12:56	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/15/24 12:56	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/15/24 12:56	1
Chloroform	<3.00		3.00	1.30	ug/L			05/15/24 12:56	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/15/24 12:56	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/15/24 12:56	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/15/24 12:56	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/15/24 12:56	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/15/24 12:56	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/15/24 12:56	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/15/24 12:56	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/15/24 12:56	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/15/24 12:56	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/15/24 12:56	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/15/24 12:56	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/15/24 12:56	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/15/24 12:56	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/15/24 12:56	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/15/24 12:56	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/15/24 12:56	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/15/24 12:56	1
Styrene	<1.00		1.00	0.370	ug/L			05/15/24 12:56	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/15/24 12:56	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/15/24 12:56	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/15/24 12:56	1
Toluene	<1.00		1.00	0.430	ug/L			05/15/24 12:56	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/15/24 12:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/15/24 12:56	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/15/24 12:56	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/15/24 12:56	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/15/24 12:56	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/15/24 12:56	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/15/24 12:56	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/15/24 12:56	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/15/24 12:56	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/15/24 12:56	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/15/24 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/15/24 12:56*	*1*

Client Sample ID: MW-06-7R

Date Collected: 05/07/24 08:46
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-1

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*73 - 130*		*05/15/24 12:56*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/15/24 12:56*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:10	1
Arsenic	**0.00137**	**J**	0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:10	1
Barium	**0.104**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:10	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:10	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:10	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:10	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:10	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:10	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:10	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:10	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:10	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:10	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:10	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:10	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**7.33**		5.00	3.70	mg/L			05/11/24 07:16	1

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-05-02
Date Collected: 05/08/24 08:52
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-2
Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/18/24 23:20	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/18/24 23:20	1
Benzene	<0.500		0.500	0.220	ug/L			05/18/24 23:20	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/18/24 23:20	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/18/24 23:20	1
Bromoform	<5.00		5.00	0.780	ug/L			05/18/24 23:20	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/18/24 23:20	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/18/24 23:20	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/18/24 23:20	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/18/24 23:20	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/18/24 23:20	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/18/24 23:20	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/18/24 23:20	1
Chloroform	<3.00		3.00	1.30	ug/L			05/18/24 23:20	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/18/24 23:20	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/18/24 23:20	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/18/24 23:20	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/18/24 23:20	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/18/24 23:20	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/18/24 23:20	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/18/24 23:20	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/18/24 23:20	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/18/24 23:20	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/18/24 23:20	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/18/24 23:20	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/18/24 23:20	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/18/24 23:20	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/18/24 23:20	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/18/24 23:20	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/18/24 23:20	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/18/24 23:20	1
Styrene	<1.00		1.00	0.370	ug/L			05/18/24 23:20	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/18/24 23:20	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/18/24 23:20	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/18/24 23:20	1
Toluene	<1.00		1.00	0.430	ug/L			05/18/24 23:20	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/18/24 23:20	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/18/24 23:20	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/18/24 23:20	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/18/24 23:20	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/18/24 23:20	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/18/24 23:20	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/18/24 23:20	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/18/24 23:20	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/18/24 23:20	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/18/24 23:20	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/18/24 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/18/24 23:20*	*1*

Client Sample ID: MW-05-02

Date Collected: 05/08/24 08:52
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-2

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*05/18/24 23:20*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/18/24 23:20*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:21	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:21	1
Barium	**0.130**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:21	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:21	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:21	1
Chromium	**0.00228**	**J**	0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:21	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:21	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:21	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:21	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:21	1
Selenium	**0.00190**	**J**	0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:21	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:21	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:21	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:21	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**6.00**		1.88	1.39	mg/L			05/11/24 10:11	1

Client Sample ID: MW-05-8R

Date Collected: 05/07/24 13:54
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-3

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/15/24 13:19	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/15/24 13:19	1
Benzene	<0.500		0.500	0.220	ug/L			05/15/24 13:19	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/15/24 13:19	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/15/24 13:19	1
Bromoform	<5.00		5.00	0.780	ug/L			05/15/24 13:19	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/15/24 13:19	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/15/24 13:19	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/15/24 13:19	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/15/24 13:19	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/15/24 13:19	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/15/24 13:19	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/15/24 13:19	1
Chloroform	<3.00		3.00	1.30	ug/L			05/15/24 13:19	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/15/24 13:19	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/15/24 13:19	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/15/24 13:19	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/15/24 13:19	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/15/24 13:19	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/15/24 13:19	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/15/24 13:19	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/15/24 13:19	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/15/24 13:19	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/15/24 13:19	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/15/24 13:19	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/15/24 13:19	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/15/24 13:19	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/15/24 13:19	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/15/24 13:19	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/15/24 13:19	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/15/24 13:19	1
Styrene	<1.00		1.00	0.370	ug/L			05/15/24 13:19	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/15/24 13:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/15/24 13:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/15/24 13:19	1
Toluene	<1.00		1.00	0.430	ug/L			05/15/24 13:19	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/15/24 13:19	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/15/24 13:19	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/15/24 13:19	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/15/24 13:19	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/15/24 13:19	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/15/24 13:19	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/15/24 13:19	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/15/24 13:19	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/15/24 13:19	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/15/24 13:19	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/15/24 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/15/24 13:19*	*1*

Client Sample ID: MW-05-8R

Date Collected: 05/07/24 13:54
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-3

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*05/15/24 13:19*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/15/24 13:19*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:23	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:23	1
Barium	**0.263**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:23	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:23	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:23	1
Chromium	**0.00293**	**J**	0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:23	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:23	1
Copper	**0.00187**	**J**	0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:23	1
Lead	**0.000336**	**J**	0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:23	1
Nickel	**0.00496**	**J**	0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:23	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:23	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:23	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:23	1
Vanadium	**0.00288**	**J**	0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:23	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**64.6**		3.00	2.22	mg/L			05/10/24 18:57	1

Client Sample ID: MW-90-11

Date Collected: 05/07/24 11:20
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-4

Matrix: Groundwater

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	<1.00		1.00	0.380	ug/L			05/17/24 18:08	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 18:08	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 18:08	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 18:08	1
1,1-Dichloroethane	**0.637**	**J**	1.00	0.220	ug/L			05/17/24 18:08	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 18:08	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 18:08	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00	1.20	ug/L			05/17/24 18:08	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/17/24 18:08	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 18:08	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 18:08	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 18:08	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 18:08	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 18:08	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 18:08	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 18:08	1
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 18:08	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/17/24 18:08	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 18:08	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 18:08	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 18:08	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 18:08	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 18:08	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 18:08	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 18:08	1
Chlorobenzene	**1.25**		1.00	0.400	ug/L			05/17/24 18:08	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 18:08	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 18:08	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 18:08	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 18:08	1
cis-1,2-Dichloroethene	**0.254**	**J**	1.00	0.210	ug/L			05/17/24 18:08	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 18:08	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 18:08	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 18:08	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 18:08	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 18:08	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 18:08	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 18:08	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 18:08	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 18:08	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 18:08	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 18:08	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 18:08	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 18:08	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 18:08	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 18:08	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*73 - 130*		*05/17/24 18:08*	*1*

Client Sample ID: MW-90-11

Date Collected: 05/07/24 11:20
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-4

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 18:08*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/17/24 18:08*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200	H H3	0.200	0.0780	mg/L			05/09/24 18:10	1
Sulfate	**31.5**		1.00	0.420	mg/L			05/09/24 18:10	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:25	1
Arsenic	**0.00642**		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:25	1
Barium	**0.328**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:25	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:25	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:25	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:25	1
Cobalt	**0.000457**	**J**	0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:25	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:25	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:25	1
Nickel	**0.00266**	**J**	0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:25	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:25	1
Iron	**3.67**		0.100	0.0360	mg/L		05/13/24 09:00	05/21/24 21:25	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:25	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:25	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:25	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:25	1
Manganese	**0.117**		0.0100	0.00360	mg/L		05/13/24 09:00	05/23/24 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**12.0**		1.88	1.39	mg/L			05/11/24 06:26	1
Total Organic Carbon (SM 5310C)	**4.01**		1.00	0.500	mg/L			05/15/24 03:51	1

Client Sample ID: MW-19

Date Collected: 05/07/24 12:50
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-5

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 18:31	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 18:31	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 18:31	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 18:31	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 18:31	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 18:31	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 18:31	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 18:31	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 18:31	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 18:31	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 18:31	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 18:31	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 18:31	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 18:31	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 18:31	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 18:31	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 18:31	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 18:31	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 18:31	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 18:31	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 18:31	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 18:31	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 18:31	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 18:31	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 18:31	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 18:31	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 18:31	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 18:31	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 18:31	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 18:31	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 18:31	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 18:31	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 18:31	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 18:31	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 18:31	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 18:31	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 18:31	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 18:31	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 18:31	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 18:31	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 18:31	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 18:31	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 18:31	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 18:31	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 18:31	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 18:31	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/17/24 18:31*	*1*

Client Sample ID: MW-19

Date Collected: 05/07/24 12:50
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-5

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*73 - 130*		*05/17/24 18:31*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 18:31*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:27	1
Arsenic	**0.000671**	**J**	0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:27	1
Barium	**0.182**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:27	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:27	1
Cadmium	**0.000116**	**J**	0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:27	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:27	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:27	1
Copper	**0.00240**	**J**	0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:27	1
Lead	**0.000576**		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:27	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:27	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:27	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:27	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:27	1
Vanadium	**0.00142**	**J**	0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:27	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**40.9**		1.88	1.39	mg/L			05/10/24 18:57	1

Client Sample ID: MW-20

Date Collected: 05/07/24 12:05
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-6

Matrix: Groundwater

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	<1.00		1.00	0.380	ug/L			05/17/24 18:54	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 18:54	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 18:54	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 18:54	1
1,1-Dichloroethane	**10.4**		1.00	0.220	ug/L			05/17/24 18:54	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 18:54	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 18:54	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00	1.20	ug/L			05/17/24 18:54	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/17/24 18:54	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 18:54	1
1,2-Dichloroethane	**0.463**	**J**	1.00	0.390	ug/L			05/17/24 18:54	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 18:54	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 18:54	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 18:54	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 18:54	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 18:54	1
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 18:54	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/17/24 18:54	1
Benzene	**1.22**		0.500	0.220	ug/L			05/17/24 18:54	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 18:54	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 18:54	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 18:54	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 18:54	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 18:54	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 18:54	1
Chlorobenzene	**0.504**	**J**	1.00	0.400	ug/L			05/17/24 18:54	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 18:54	1
Chloroethane	**5.66**		4.00	0.790	ug/L			05/17/24 18:54	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 18:54	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 18:54	1
cis-1,2-Dichloroethene	**4.22**		1.00	0.210	ug/L			05/17/24 18:54	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 18:54	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 18:54	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 18:54	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 18:54	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 18:54	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 18:54	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 18:54	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 18:54	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 18:54	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 18:54	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 18:54	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 18:54	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 18:54	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 18:54	1
Vinyl chloride	**1.04**		1.00	0.180	ug/L			05/17/24 18:54	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*73 - 130*		*05/17/24 18:54*	*1*

Client Sample ID: MW-20

Date Collected: 05/07/24 12:05
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-6

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 18:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/17/24 18:54*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.108**	**J H H3**	0.200	0.0780	mg/L			05/09/24 18:22	1
Sulfate	**26.9**		1.00	0.420	mg/L			05/09/24 18:22	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:38	1
Arsenic	**0.0310**		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:38	1
Barium	**2.80**		0.00800	0.00264	mg/L		05/13/24 09:00	05/22/24 15:32	4
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:38	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:38	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:38	1
Cobalt	**0.0263**		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:38	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:38	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:38	1
Nickel	**0.0345**		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:38	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:38	1
Iron	**24.2**		0.100	0.0360	mg/L		05/13/24 09:00	05/21/24 21:38	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:38	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:38	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:38	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:38	1
Manganese	**11.0**		0.0400	0.0144	mg/L		05/13/24 09:00	05/23/24 15:14	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**50.0**		15.0	11.1	mg/L			05/11/24 06:26	1
Total Organic Carbon (SM 5310C)	**5.05**		1.00	0.500	mg/L			05/15/24 04:27	1

Client Sample ID: MW-24

Date Collected: 05/07/24 09:36
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-7

Matrix: Groundwater

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	<1.00		1.00	0.380	ug/L			05/17/24 19:17	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 19:17	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 19:17	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 19:17	1
1,1-Dichloroethane	**1.15**		1.00	0.220	ug/L			05/17/24 19:17	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 19:17	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 19:17	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00	1.20	ug/L			05/17/24 19:17	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/17/24 19:17	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 19:17	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 19:17	1
1,2-Dichloropropane	**0.724**	**J**	1.00	0.270	ug/L			05/17/24 19:17	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 19:17	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 19:17	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 19:17	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 19:17	1
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 19:17	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/17/24 19:17	1
Benzene	**2.24**		0.500	0.220	ug/L			05/17/24 19:17	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 19:17	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 19:17	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 19:17	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 19:17	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 19:17	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 19:17	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 19:17	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 19:17	1
Chloroethane	**4.06**		4.00	0.790	ug/L			05/17/24 19:17	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 19:17	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 19:17	1
cis-1,2-Dichloroethene	**0.676**	**J**	1.00	0.210	ug/L			05/17/24 19:17	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 19:17	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 19:17	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 19:17	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 19:17	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 19:17	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 19:17	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 19:17	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 19:17	1
trans-1,2-Dichloroethene	**0.295**	**J**	1.00	0.270	ug/L			05/17/24 19:17	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 19:17	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 19:17	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 19:17	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 19:17	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 19:17	1
Vinyl chloride	**0.845**	**J**	1.00	0.180	ug/L			05/17/24 19:17	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*73 - 130*		*05/17/24 19:17*	*1*

Client Sample ID: MW-24

Date Collected: 05/07/24 09:36
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-7

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 19:17*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/17/24 19:17*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200	H H3	0.200	0.0780	mg/L			05/09/24 17:34	1
Sulfate	**0.448**	**J**	1.00	0.420	mg/L			05/09/24 17:34	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:41	1
Arsenic	**0.00711**		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:41	1
Barium	**0.520**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:41	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:41	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:41	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:41	1
Cobalt	**0.000702**		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:41	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:41	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:41	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:41	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:41	1
Iron	**43.8**		0.100	0.0360	mg/L		05/13/24 09:00	05/21/24 21:41	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:41	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:41	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:41	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:41	1
Manganese	**0.972**		0.0100	0.00360	mg/L		05/13/24 09:00	05/21/24 21:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**100**		15.0	11.1	mg/L			05/11/24 07:16	1
Total Organic Carbon (SM 5310C)	**6.01**		1.00	0.500	mg/L			05/15/24 05:03	1

Client Sample ID: MW-29

Date Collected: 05/07/24 10:36
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-8

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 19:40	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 19:40	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 19:40	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 19:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 19:40	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 19:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 19:40	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 19:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 19:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 19:40	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 19:40	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 19:40	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 19:40	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 19:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 19:40	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 19:40	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 19:40	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 19:40	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 19:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 19:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 19:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 19:40	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 19:40	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 19:40	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 19:40	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 19:40	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 19:40	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 19:40	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 19:40	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 19:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 19:40	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 19:40	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 19:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 19:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 19:40	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 19:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 19:40	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 19:40	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 19:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 19:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 19:40	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 19:40	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 19:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 19:40	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 19:40	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 19:40	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/17/24 19:40*	*1*

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-29
Date Collected: 05/07/24 10:36
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-8
Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*73 - 130*		*05/17/24 19:40*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/17/24 19:40*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:43	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:43	1
Barium	**0.143**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:43	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:43	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:43	1
Chromium	**0.00682**		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:43	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:43	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:43	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:43	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:43	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:43	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:43	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:43	1
Vanadium	**0.00217**	**J**	0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:43	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			05/10/24 18:57	1

Client Sample ID: MW-32

Date Collected: 05/07/24 16:37
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-9

Matrix: Groundwater

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	<1.00		1.00	0.380	ug/L			05/17/24 02:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 02:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 02:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 02:18	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 02:18	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 02:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 02:18	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00	1.20	ug/L			05/17/24 02:18	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/17/24 02:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 02:18	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 02:18	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 02:18	1
1,4-Dichlorobenzene	**0.525**	**J**	1.00	0.230	ug/L			05/17/24 02:18	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 02:18	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 02:18	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 02:18	1
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 02:18	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/17/24 02:18	1
Benzene	**2.13**		0.500	0.220	ug/L			05/17/24 02:18	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 02:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 02:18	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 02:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 02:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 02:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 02:18	1
Chlorobenzene	**1.52**		1.00	0.400	ug/L			05/17/24 02:18	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 02:18	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 02:18	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 02:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 02:18	1
cis-1,2-Dichloroethene	**0.645**	**J**	1.00	0.210	ug/L			05/17/24 02:18	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 02:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 02:18	1
Ethylbenzene	**0.515**	**J**	1.00	0.310	ug/L			05/17/24 02:18	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 02:18	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 02:18	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 02:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 02:18	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 02:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 02:18	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 02:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 02:18	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 02:18	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 02:18	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 02:18	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 02:18	1
Xylenes, Total	**1.42**	**J**	3.00	0.400	ug/L			05/17/24 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*05/17/24 02:18*	*1*

Client Sample ID: MW-32

Date Collected: 05/07/24 16:37
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-9

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/17/24 02:18*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/17/24 02:18*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200	H	0.200	0.0780	mg/L			05/09/24 17:45	1
Sulfate	**29.0**		1.00	0.420	mg/L			05/09/24 17:45	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:45	1
Arsenic	**0.0153**		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:45	1
Barium	**0.183**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:45	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:45	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:45	1
Cobalt	**0.0126**		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:45	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:45	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:45	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:45	1
Iron	**19.5**		0.100	0.0360	mg/L		05/13/24 09:00	05/21/24 21:45	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:45	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:45	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:45	1
Manganese	**4.35**		0.0100	0.00360	mg/L		05/13/24 09:00	05/21/24 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**38.0**		15.0	11.1	mg/L			05/11/24 06:26	1
Total Organic Carbon (SM 5310C)	**2.34**		1.00	0.500	mg/L			05/16/24 17:34	1

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-33
Date Collected: 05/07/24 15:57
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-10
Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.82**	**J**	10.0	3.10	ug/L			05/17/24 02:40	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 02:40	1
Benzene	**1.34**		0.500	0.220	ug/L			05/17/24 02:40	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 02:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 02:40	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 02:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 02:40	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 02:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 02:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 02:40	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 02:40	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 02:40	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 02:40	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 02:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 02:40	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 02:40	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 02:40	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 02:40	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 02:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 02:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 02:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 02:40	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 02:40	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 02:40	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 02:40	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 02:40	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 02:40	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 02:40	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 02:40	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 02:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 02:40	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 02:40	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 02:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 02:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 02:40	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 02:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 02:40	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 02:40	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 02:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 02:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 02:40	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 02:40	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 02:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 02:40	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 02:40	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 02:40	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/17/24 02:40*	*1*

Client Sample ID: MW-33

Date Collected: 05/07/24 15:57
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-10

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*05/17/24 02:40*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/17/24 02:40*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	**14.2**		10.0	0.700	ug/L		05/10/24 08:43	05/14/24 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*59*		*25 - 110*	*05/10/24 08:43*	*05/14/24 16:36*	*1*
Phenol-d5 (Surr)	*58*		*21 - 110*	*05/10/24 08:43*	*05/14/24 16:36*	*1*
2,4,6-Tribromophenol (Surr)	*94*		*27 - 136*	*05/10/24 08:43*	*05/14/24 16:36*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	**2.05**	**J**	2.97	1.24	ug/L		05/13/24 19:34	05/15/24 16:01	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	*39*	*p*	*34 - 142*	*05/13/24 19:34*	*05/15/24 16:01*	*5*
DCAA	*79*		*34 - 142*	*05/13/24 19:34*	*05/15/24 16:01*	*5*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200	H H3	0.200	0.0780	mg/L			05/09/24 17:58	1
Sulfate	**0.531**	**J**	1.00	0.420	mg/L			05/09/24 17:58	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:47	1
Arsenic	**0.00484**		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:47	1
Barium	**0.135**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:47	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:47	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:47	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:47	1
Cobalt	**0.00899**		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:47	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:47	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:47	1
Nickel	**0.00717**		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:47	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:47	1
Iron	**3.00**		0.100	0.0360	mg/L		05/13/24 09:00	05/21/24 21:47	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:47	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:47	1
Vanadium	**0.00112**	**J**	0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:47	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:47	1
Manganese	**1.57**		0.0100	0.00360	mg/L		05/13/24 09:00	05/21/24 21:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**9.00**		3.75	2.78	mg/L			05/11/24 07:16	1
Total Organic Carbon (SM 5310C)	**5.41**		1.00	0.500	mg/L			05/16/24 18:46	1

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-D1
Date Collected: 05/07/24 12:50
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-11
Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 03:01	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 03:01	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 03:01	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 03:01	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 03:01	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 03:01	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 03:01	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 03:01	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 03:01	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 03:01	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 03:01	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 03:01	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 03:01	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 03:01	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 03:01	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 03:01	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 03:01	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 03:01	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 03:01	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 03:01	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 03:01	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 03:01	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 03:01	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 03:01	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 03:01	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 03:01	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 03:01	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 03:01	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 03:01	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 03:01	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 03:01	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 03:01	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 03:01	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 03:01	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 03:01	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 03:01	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 03:01	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 03:01	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 03:01	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 03:01	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 03:01	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 03:01	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 03:01	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 03:01	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 03:01	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 03:01	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*05/17/24 03:01*	*1*

Client Sample ID: MW-D1

Date Collected: 05/07/24 12:50
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-11

Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*05/17/24 03:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 03:01*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 21:49	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 21:49	1
Barium	**0.170**		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 21:49	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 21:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 21:49	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 21:49	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 21:49	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 21:49	1
Lead	**0.000325**	**J**	0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 21:49	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 21:49	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 21:49	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 21:49	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 21:49	1
Vanadium	**0.00117**	**J**	0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 21:49	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 21:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**20.1**		1.88	1.39	mg/L			05/10/24 18:57	1

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-90-18
Date Collected: 05/08/24 11:38
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-12
Matrix: Groundwater

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/16/24 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*05/16/24 01:08*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/16/24 01:08*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/16/24 01:08*	*1*

Client Sample ID: Trip Blank

Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-13

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/18/24 17:54	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/18/24 17:54	1
Benzene	<0.500		0.500	0.220	ug/L			05/18/24 17:54	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/18/24 17:54	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/18/24 17:54	1
Bromoform	<5.00		5.00	0.780	ug/L			05/18/24 17:54	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/18/24 17:54	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/18/24 17:54	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/18/24 17:54	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/18/24 17:54	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/18/24 17:54	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/18/24 17:54	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/18/24 17:54	1
Chloroform	<3.00		3.00	1.30	ug/L			05/18/24 17:54	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/18/24 17:54	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/18/24 17:54	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/18/24 17:54	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/18/24 17:54	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/18/24 17:54	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/18/24 17:54	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/18/24 17:54	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/18/24 17:54	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/18/24 17:54	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/18/24 17:54	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/18/24 17:54	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/18/24 17:54	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/18/24 17:54	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/18/24 17:54	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/18/24 17:54	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/18/24 17:54	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/18/24 17:54	1
Styrene	<1.00		1.00	0.370	ug/L			05/18/24 17:54	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/18/24 17:54	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/18/24 17:54	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/18/24 17:54	1
Toluene	<1.00		1.00	0.430	ug/L			05/18/24 17:54	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/18/24 17:54	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/18/24 17:54	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/18/24 17:54	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/18/24 17:54	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/18/24 17:54	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/18/24 17:54	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/18/24 17:54	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/18/24 17:54	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/18/24 17:54	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/18/24 17:54	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/18/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/18/24 17:54*	*1*

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: Trip Blank
Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*05/18/24 17:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/18/24 17:54*	*1*

Client Sample ID: Trip Blank

Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-14

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/18/24 18:16	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/18/24 18:16	1
Benzene	<0.500		0.500	0.220	ug/L			05/18/24 18:16	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/18/24 18:16	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/18/24 18:16	1
Bromoform	<5.00		5.00	0.780	ug/L			05/18/24 18:16	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/18/24 18:16	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/18/24 18:16	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/18/24 18:16	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/18/24 18:16	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/18/24 18:16	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/18/24 18:16	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/18/24 18:16	1
Chloroform	<3.00		3.00	1.30	ug/L			05/18/24 18:16	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/18/24 18:16	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/18/24 18:16	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/18/24 18:16	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/18/24 18:16	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/18/24 18:16	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/18/24 18:16	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/18/24 18:16	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/18/24 18:16	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/18/24 18:16	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/18/24 18:16	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/18/24 18:16	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/18/24 18:16	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/18/24 18:16	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/18/24 18:16	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/18/24 18:16	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/18/24 18:16	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/18/24 18:16	1
Styrene	<1.00		1.00	0.370	ug/L			05/18/24 18:16	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/18/24 18:16	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/18/24 18:16	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/18/24 18:16	1
Toluene	<1.00		1.00	0.430	ug/L			05/18/24 18:16	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/18/24 18:16	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/18/24 18:16	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/18/24 18:16	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/18/24 18:16	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/18/24 18:16	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/18/24 18:16	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/18/24 18:16	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/18/24 18:16	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/18/24 18:16	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/18/24 18:16	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/18/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/18/24 18:16*	*1*

Client Sample ID: Trip Blank
Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*05/18/24 18:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/18/24 18:16*	*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 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.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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.
F3	Duplicate RPD exceeds the control limit
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-280913-1	MW-06-7R	102	109	99
310-280913-2	MW-05-02	104	103	99
310-280913-3	MW-05-8R	100	111	98
310-280913-4	MW-90-11	102	110	98
310-280913-5	MW-19	102	112	98
310-280913-6	MW-20	101	113	98
310-280913-7	MW-24	102	107	98
310-280913-8	MW-29	100	110	99
310-280913-9	MW-32	106	101	100
310-280913-10	MW-33	106	102	95
310-280913-11	MW-D1	109	104	97
310-280913-12	MW-90-18	102	100	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-280913-13	Trip Blank	106	101	99
310-280913-14	Trip Blank	105	100	99
LCS 310-421604/6	Lab Control Sample	101	98	101
LCS 310-421604/7	Lab Control Sample	102	114	98
LCS 310-421744/7	Lab Control Sample	98	96	104
LCS 310-421866/6	Lab Control Sample	100	97	104
LCS 310-421866/7	Lab Control Sample	107	98	98
LCS 310-422006/6	Lab Control Sample	102	96	104
LCS 310-422006/7	Lab Control Sample	107	99	100
LCS 310-422067/6	Lab Control Sample	101	101	102
LCS 310-422067/7	Lab Control Sample	102	113	98
MB 310-421604/5	Method Blank	101	111	98
MB 310-421744/5	Method Blank	98	92	106
MB 310-421866/5	Method Blank	109	100	98
MB 310-422006/5	Method Blank	106	99	99
MB 310-422067/5	Method Blank	100	111	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(25-110)	(21-110)	(27-136)
310-280913-10	MW-33	59	58	94

Surrogate Legend

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	TBP
Lab Sample ID	Client Sample ID	(25-110)	(21-110)	(27-136)
LCS 310-421270/2-A	Lab Control Sample	68	69	106
LCS 310-421270/2-A	Lab Control Sample	72	58	107
LCS 310-421270/3-A	Lab Control Sample	73	61	104
MB 310-421270/1-A	Method Blank	71	71	102
MB 310-421270/1-A	Method Blank	73	58	107

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(34-142)	(34-142)
310-280913-10	MW-33	39 p	79

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(34-142)	(34-142)
LCS 410-505638/2-A	Lab Control Sample	84	101
LCSD 410-505638/3-A	Lab Control Sample Dup	79	96
MB 410-505638/1-A	Method Blank	81	95

Surrogate Legend

DCPAA = DCAA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-421604/5
Matrix: Water
Analysis Batch: 421604

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/15/24 10:17	1
Acetone	<10.0		10.0	3.10	ug/L			05/15/24 10:17	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/15/24 10:17	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/15/24 10:17	1
Benzene	<0.500		0.500	0.220	ug/L			05/15/24 10:17	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/15/24 10:17	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/15/24 10:17	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/15/24 10:17	1
Bromoform	<5.00		5.00	0.780	ug/L			05/15/24 10:17	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/15/24 10:17	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/15/24 10:17	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/15/24 10:17	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/15/24 10:17	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/15/24 10:17	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/15/24 10:17	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/15/24 10:17	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/15/24 10:17	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/15/24 10:17	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/15/24 10:17	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/15/24 10:17	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/15/24 10:17	1
Chloroform	<3.00		3.00	1.30	ug/L			05/15/24 10:17	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/15/24 10:17	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/15/24 10:17	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/15/24 10:17	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/15/24 10:17	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/15/24 10:17	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/15/24 10:17	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/15/24 10:17	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/15/24 10:17	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/15/24 10:17	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/15/24 10:17	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/15/24 10:17	1
Styrene	<1.00		1.00	0.370	ug/L			05/15/24 10:17	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/15/24 10:17	1
Toluene	<1.00		1.00	0.430	ug/L			05/15/24 10:17	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/15/24 10:17	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/15/24 10:17	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/15/24 10:17	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/15/24 10:17	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/15/24 10:17	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/15/24 10:17	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/15/24 10:17	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/15/24 10:17	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/15/24 10:17	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/15/24 10:17	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/15/24 10:17	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-421604/5
Matrix: Water
Analysis Batch: 421604

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*05/15/24 10:17*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/15/24 10:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/15/24 10:17*	*1*

Lab Sample ID: LCS 310-421604/6
Matrix: Water
Analysis Batch: 421604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	40.0	39.82		ug/L		100	50 - 150
Acetone	40.0	39.85		ug/L		100	50 - 150
Acrylonitrile	200	205.1		ug/L		103	50 - 150
1,2-Dibromo-3-Chloropropane	20.0	21.51		ug/L		108	50 - 150
Benzene	20.0	20.36		ug/L		102	72 - 124
1,2-Dibromoethane (EDB)	20.0	21.85		ug/L		109	75 - 125
Bromochloromethane	20.0	20.54		ug/L		103	73 - 130
Bromodichloromethane	20.0	20.15		ug/L		101	74 - 122
Bromoform	20.0	20.81		ug/L		104	61 - 122
1,2-Dichlorobenzene	20.0	20.52		ug/L		103	74 - 120
1,4-Dichlorobenzene	20.0	20.06		ug/L		100	72 - 120
Carbon disulfide	20.0	18.04		ug/L		90	59 - 135
1,1-Dichloroethane	20.0	19.29		ug/L		96	70 - 127
Carbon tetrachloride	20.0	21.14		ug/L		106	67 - 132
1,2-Dichloroethane	20.0	20.30		ug/L		101	71 - 125
Chlorobenzene	20.0	20.40		ug/L		102	76 - 120
1,1-Dichloroethene	20.0	18.62		ug/L		93	63 - 132
Chlorodibromomethane	20.0	21.50		ug/L		107	71 - 121
1,2-Dichloropropane	20.0	21.26		ug/L		106	73 - 124
Chloroform	20.0	19.78		ug/L		99	72 - 125
2-Hexanone	40.0	44.36		ug/L		111	60 - 140
cis-1,2-Dichloroethene	20.0	19.09		ug/L		95	74 - 123
cis-1,3-Dichloropropene	20.0	21.20		ug/L		106	71 - 125
4-Methyl-2-pentanone (MIBK)	40.0	44.37		ug/L		111	60 - 139
Dibromomethane	20.0	20.16		ug/L		101	74 - 125
Ethylbenzene	20.0	20.33		ug/L		102	74 - 122
Iodomethane	20.0	19.68		ug/L		98	10 - 150
1,1,1,2-Tetrachloroethane	20.0	20.64		ug/L		103	71 - 120
Methylene Chloride	20.0	18.67		ug/L		93	50 - 150
1,1,2,2-Tetrachloroethane	20.0	20.98		ug/L		105	68 - 124
Styrene	20.0	20.89		ug/L		104	74 - 121
Tetrachloroethene	20.0	20.51		ug/L		103	71 - 130
Toluene	20.0	19.58		ug/L		98	74 - 123
trans-1,2-Dichloroethene	20.0	19.15		ug/L		96	70 - 126
trans-1,3-Dichloropropene	20.0	19.76		ug/L		99	69 - 123
trans-1,4-Dichloro-2-butene	20.0	19.23		ug/L		96	50 - 150
1,1,1-Trichloroethane	20.0	20.12		ug/L		101	73 - 129
1,1,2-Trichloroethane	20.0	21.74		ug/L		109	73 - 123
Trichloroethene	20.0	20.61		ug/L		103	72 - 126

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-421604/6
Matrix: Water
Analysis Batch: 421604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	20.87		ug/L		104	65 - 127
Vinyl acetate	40.0	38.47		ug/L		96	50 - 150
Xylenes, Total	40.0	40.91		ug/L		102	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: LCS 310-421604/7
Matrix: Water
Analysis Batch: 421604

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	20.63		ug/L		103	23 - 150
Chloroethane	20.0	22.20		ug/L		111	54 - 136
Chloromethane	20.0	22.18		ug/L		111	38 - 150
Trichlorofluoromethane	20.0	23.14		ug/L		116	54 - 149
Vinyl chloride	20.0	23.38		ug/L		117	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*114*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 310-421744/5
Matrix: Water
Analysis Batch: 421744

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/15/24 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*73 - 130*		*05/15/24 17:15*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*05/15/24 17:15*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/15/24 17:15*	*1*

Lab Sample ID: LCS 310-421744/7
Matrix: Water
Analysis Batch: 421744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	19.12		ug/L		96	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*96*		*73 - 130*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-421744/7
Matrix: Water
Analysis Batch: 421744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 310-421866/5
Matrix: Water
Analysis Batch: 421866

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/16/24 21:13	1
Acetone	<10.0		10.0	3.10	ug/L			05/16/24 21:13	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/16/24 21:13	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00	1.20	ug/L			05/16/24 21:13	1
Benzene	<0.500		0.500	0.220	ug/L			05/16/24 21:13	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/16/24 21:13	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/16/24 21:13	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/16/24 21:13	1
Bromoform	<5.00		5.00	0.780	ug/L			05/16/24 21:13	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/16/24 21:13	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/16/24 21:13	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/16/24 21:13	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/16/24 21:13	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/16/24 21:13	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/16/24 21:13	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/16/24 21:13	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/16/24 21:13	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/16/24 21:13	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/16/24 21:13	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/16/24 21:13	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/16/24 21:13	1
Chloroform	<3.00		3.00	1.30	ug/L			05/16/24 21:13	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/16/24 21:13	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/16/24 21:13	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/16/24 21:13	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/16/24 21:13	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/16/24 21:13	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/16/24 21:13	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/16/24 21:13	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/16/24 21:13	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/16/24 21:13	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/16/24 21:13	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/16/24 21:13	1
Styrene	<1.00		1.00	0.370	ug/L			05/16/24 21:13	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/16/24 21:13	1
Toluene	<1.00		1.00	0.430	ug/L			05/16/24 21:13	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/16/24 21:13	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/16/24 21:13	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/16/24 21:13	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/16/24 21:13	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/16/24 21:13	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-421866/5
Matrix: Water
Analysis Batch: 421866

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.430	ug/L			05/16/24 21:13	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/16/24 21:13	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/16/24 21:13	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/16/24 21:13	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/16/24 21:13	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/16/24 21:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*05/16/24 21:13*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/16/24 21:13*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*05/16/24 21:13*	*1*

Lab Sample ID: LCS 310-421866/6
Matrix: Water
Analysis Batch: 421866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	40.0	36.62		ug/L		92	50 - 150
Acetone	40.0	33.29		ug/L		83	50 - 150
Acrylonitrile	200	185.2		ug/L		93	50 - 150
1,2-Dibromo-3-Chloropropane	20.0	19.58		ug/L		98	50 - 150
Benzene	20.0	19.18		ug/L		96	72 - 124
1,2-Dibromoethane (EDB)	20.0	18.80		ug/L		94	75 - 125
Bromochloromethane	20.0	18.47		ug/L		92	73 - 130
Bromodichloromethane	20.0	18.34		ug/L		92	74 - 122
Bromoform	20.0	17.57		ug/L		88	61 - 122
1,2-Dichlorobenzene	20.0	20.04		ug/L		100	74 - 120
1,4-Dichlorobenzene	20.0	18.73		ug/L		94	72 - 120
Carbon disulfide	20.0	19.99		ug/L		100	59 - 135
1,1-Dichloroethane	20.0	19.20		ug/L		96	70 - 127
Carbon tetrachloride	20.0	19.19		ug/L		96	67 - 132
1,2-Dichloroethane	20.0	17.99		ug/L		90	71 - 125
Chlorobenzene	20.0	19.38		ug/L		97	76 - 120
1,1-Dichloroethene	20.0	19.58		ug/L		98	63 - 132
Chlorodibromomethane	20.0	18.32		ug/L		92	71 - 121
1,2-Dichloropropane	20.0	19.23		ug/L		96	73 - 124
Chloroform	20.0	18.77		ug/L		94	72 - 125
2-Hexanone	40.0	37.54		ug/L		94	60 - 140
cis-1,2-Dichloroethene	20.0	18.75		ug/L		94	74 - 123
cis-1,3-Dichloropropene	20.0	19.61		ug/L		98	71 - 125
4-Methyl-2-pentanone (MIBK)	40.0	36.55		ug/L		91	60 - 139
Dibromomethane	20.0	18.72		ug/L		94	74 - 125
Ethylbenzene	20.0	20.38		ug/L		102	74 - 122
Iodomethane	20.0	14.16		ug/L		71	10 - 150
1,1,1,2-Tetrachloroethane	20.0	19.51		ug/L		98	71 - 120
Methylene Chloride	20.0	21.09		ug/L		105	50 - 150
1,1,2,2-Tetrachloroethane	20.0	19.15		ug/L		96	68 - 124
Styrene	20.0	20.03		ug/L		100	74 - 121

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-421866/6
Matrix: Water
Analysis Batch: 421866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	20.0	19.18		ug/L		96	71 - 130
Toluene	20.0	18.75		ug/L		94	74 - 123
trans-1,2-Dichloroethene	20.0	18.81		ug/L		94	70 - 126
trans-1,3-Dichloropropene	20.0	19.02		ug/L		95	69 - 123
trans-1,4-Dichloro-2-butene	20.0	18.53		ug/L		93	50 - 150
1,1,1-Trichloroethane	20.0	19.30		ug/L		96	73 - 129
1,1,2-Trichloroethane	20.0	19.18		ug/L		96	73 - 123
Trichloroethene	20.0	19.62		ug/L		98	72 - 126
1,2,3-Trichloropropane	20.0	19.06		ug/L		95	65 - 127
Vinyl acetate	40.0	36.14		ug/L		90	50 - 150
Xylenes, Total	40.0	40.55		ug/L		101	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*73 - 130*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCS 310-421866/7
Matrix: Water
Analysis Batch: 421866

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	19.78		ug/L		99	23 - 150
Chloroethane	20.0	21.16		ug/L		106	54 - 136
Chloromethane	20.0	21.70		ug/L		109	38 - 150
Trichlorofluoromethane	20.0	20.95		ug/L		105	54 - 149
Vinyl chloride	20.0	22.13		ug/L		111	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*

Lab Sample ID: MB 310-422006/5
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/18/24 15:43	1
Acetone	<10.0		10.0	3.10	ug/L			05/18/24 15:43	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/18/24 15:43	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/18/24 15:43	1
Benzene	<0.500		0.500	0.220	ug/L			05/18/24 15:43	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/18/24 15:43	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/18/24 15:43	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/18/24 15:43	1
Bromoform	<5.00		5.00	0.780	ug/L			05/18/24 15:43	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/18/24 15:43	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-422006/5
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<4.00		4.00	1.10	ug/L			05/18/24 15:43	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/18/24 15:43	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/18/24 15:43	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/18/24 15:43	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/18/24 15:43	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/18/24 15:43	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/18/24 15:43	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/18/24 15:43	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/18/24 15:43	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/18/24 15:43	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/18/24 15:43	1
Chloroform	<3.00		3.00	1.30	ug/L			05/18/24 15:43	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/18/24 15:43	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/18/24 15:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/18/24 15:43	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/18/24 15:43	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/18/24 15:43	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/18/24 15:43	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/18/24 15:43	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/18/24 15:43	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/18/24 15:43	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/18/24 15:43	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/18/24 15:43	1
Styrene	<1.00		1.00	0.370	ug/L			05/18/24 15:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/18/24 15:43	1
Toluene	<1.00		1.00	0.430	ug/L			05/18/24 15:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/18/24 15:43	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/18/24 15:43	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/18/24 15:43	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/18/24 15:43	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/18/24 15:43	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/18/24 15:43	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/18/24 15:43	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/18/24 15:43	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/18/24 15:43	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/18/24 15:43	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/18/24 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*05/18/24 15:43*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/18/24 15:43*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/18/24 15:43*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-422006/6
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	40.0	39.80		ug/L		100	50 - 150
Acetone	40.0	38.50		ug/L		96	50 - 150
Acrylonitrile	200	197.3		ug/L		99	50 - 150
1,2-Dibromo-3-Chloropropane	20.0	19.60		ug/L		98	50 - 150
Benzene	20.0	19.32		ug/L		97	72 - 124
1,2-Dibromoethane (EDB)	20.0	18.45		ug/L		92	75 - 125
Bromochloromethane	20.0	18.02		ug/L		90	73 - 130
Bromodichloromethane	20.0	17.92		ug/L		90	74 - 122
Bromoform	20.0	17.16		ug/L		86	61 - 122
1,2-Dichlorobenzene	20.0	19.45		ug/L		97	74 - 120
1,4-Dichlorobenzene	20.0	18.68		ug/L		93	72 - 120
Carbon disulfide	20.0	19.79		ug/L		99	59 - 135
1,1-Dichloroethane	20.0	18.78		ug/L		94	70 - 127
Carbon tetrachloride	20.0	18.10		ug/L		91	67 - 132
1,2-Dichloroethane	20.0	17.41		ug/L		87	71 - 125
Chlorobenzene	20.0	18.87		ug/L		94	76 - 120
1,1-Dichloroethene	20.0	18.66		ug/L		93	63 - 132
Chlorodibromomethane	20.0	17.74		ug/L		89	71 - 121
1,2-Dichloropropane	20.0	19.90		ug/L		100	73 - 124
Chloroform	20.0	18.78		ug/L		94	72 - 125
2-Hexanone	40.0	37.42		ug/L		94	60 - 140
cis-1,2-Dichloroethene	20.0	18.51		ug/L		93	74 - 123
cis-1,3-Dichloropropene	20.0	19.12		ug/L		96	71 - 125
4-Methyl-2-pentanone (MIBK)	40.0	37.69		ug/L		94	60 - 139
Dibromomethane	20.0	18.01		ug/L		90	74 - 125
Ethylbenzene	20.0	20.09		ug/L		100	74 - 122
Iodomethane	20.0	17.51		ug/L		88	10 - 150
1,1,1,2-Tetrachloroethane	20.0	18.73		ug/L		94	71 - 120
Methylene Chloride	20.0	20.64		ug/L		103	50 - 150
1,1,2,2-Tetrachloroethane	20.0	19.14		ug/L		96	68 - 124
Styrene	20.0	19.25		ug/L		96	74 - 121
Tetrachloroethene	20.0	18.59		ug/L		93	71 - 130
Toluene	20.0	18.63		ug/L		93	74 - 123
trans-1,2-Dichloroethene	20.0	18.51		ug/L		93	70 - 126
trans-1,3-Dichloropropene	20.0	18.30		ug/L		91	69 - 123
trans-1,4-Dichloro-2-butene	20.0	18.55		ug/L		93	50 - 150
1,1,1-Trichloroethane	20.0	18.13		ug/L		91	73 - 129
1,1,2-Trichloroethane	20.0	19.41		ug/L		97	73 - 123
Trichloroethene	20.0	19.21		ug/L		96	72 - 126
1,2,3-Trichloropropane	20.0	18.64		ug/L		93	65 - 127
Vinyl acetate	40.0	34.85		ug/L		87	50 - 150
Xylenes, Total	40.0	39.28		ug/L		98	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*96*		*73 - 130*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-422006/7
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	21.01		ug/L		105	23 - 150
Chloroethane	20.0	21.19		ug/L		106	54 - 136
Chloromethane	20.0	23.66		ug/L		118	38 - 150
Trichlorofluoromethane	20.0	20.44		ug/L		102	54 - 149
Vinyl chloride	20.0	22.92		ug/L		115	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*

Lab Sample ID: MB 310-422067/5
Matrix: Water
Analysis Batch: 422067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 13:58	1
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 13:58	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/17/24 13:58	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00	1.20	ug/L			05/17/24 13:58	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 13:58	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			05/17/24 13:58	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 13:58	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 13:58	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 13:58	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 13:58	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 13:58	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 13:58	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 13:58	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 13:58	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 13:58	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 13:58	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 13:58	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 13:58	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 13:58	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 13:58	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 13:58	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 13:58	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 13:58	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 13:58	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 13:58	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 13:58	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 13:58	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 13:58	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 13:58	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 13:58	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 13:58	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 13:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-422067/5
Matrix: Water
Analysis Batch: 422067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 13:58	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 13:58	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 13:58	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 13:58	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 13:58	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 13:58	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 13:58	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 13:58	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 13:58	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 13:58	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 13:58	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 13:58	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 13:58	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 13:58	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*05/17/24 13:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 13:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/17/24 13:58*	*1*

Lab Sample ID: LCS 310-422067/6
Matrix: Water
Analysis Batch: 422067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	40.0	41.13		ug/L		103	50 - 150
Acetone	40.0	37.66		ug/L		94	50 - 150
Acrylonitrile	200	202.6		ug/L		101	50 - 150
1,2-Dibromo-3-Chloropropane	20.0	19.91		ug/L		100	50 - 150
Benzene	20.0	19.81		ug/L		99	72 - 124
1,2-Dibromoethane (EDB)	20.0	20.89		ug/L		104	75 - 125
Bromochloromethane	20.0	19.80		ug/L		99	73 - 130
Bromodichloromethane	20.0	19.64		ug/L		98	74 - 122
Bromoform	20.0	19.57		ug/L		98	61 - 122
1,2-Dichlorobenzene	20.0	19.58		ug/L		98	74 - 120
1,4-Dichlorobenzene	20.0	19.33		ug/L		97	72 - 120
Carbon disulfide	20.0	18.26		ug/L		91	59 - 135
1,1-Dichloroethane	20.0	19.15		ug/L		96	70 - 127
Carbon tetrachloride	20.0	19.20		ug/L		96	67 - 132
1,2-Dichloroethane	20.0	20.10		ug/L		100	71 - 125
Chlorobenzene	20.0	19.96		ug/L		100	76 - 120
1,1-Dichloroethene	20.0	18.65		ug/L		93	63 - 132
Chlorodibromomethane	20.0	20.35		ug/L		102	71 - 121
1,2-Dichloropropane	20.0	20.57		ug/L		103	73 - 124
Chloroform	20.0	19.64		ug/L		98	72 - 125
2-Hexanone	40.0	42.78		ug/L		107	60 - 140
cis-1,2-Dichloroethene	20.0	19.13		ug/L		96	74 - 123

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-422067/6
Matrix: Water
Analysis Batch: 422067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	20.0	21.55		ug/L		108	71 - 125
4-Methyl-2-pentanone (MIBK)	40.0	42.81		ug/L		107	60 - 139
Dibromomethane	20.0	19.63		ug/L		98	74 - 125
Ethylbenzene	20.0	20.22		ug/L		101	74 - 122
Iodomethane	20.0	20.56		ug/L		103	10 - 150
1,1,1,2-Tetrachloroethane	20.0	20.11		ug/L		101	71 - 120
Methylene Chloride	20.0	18.43		ug/L		92	50 - 150
1,1,2,2-Tetrachloroethane	20.0	19.73		ug/L		99	68 - 124
Styrene	20.0	20.26		ug/L		101	74 - 121
Tetrachloroethene	20.0	20.12		ug/L		101	71 - 130
Toluene	20.0	19.28		ug/L		96	74 - 123
trans-1,2-Dichloroethene	20.0	19.22		ug/L		96	70 - 126
trans-1,3-Dichloropropene	20.0	20.15		ug/L		101	69 - 123
trans-1,4-Dichloro-2-butene	20.0	20.51		ug/L		103	50 - 150
1,1,1-Trichloroethane	20.0	19.72		ug/L		99	73 - 129
1,1,2-Trichloroethane	20.0	20.95		ug/L		105	73 - 123
Trichloroethene	20.0	19.93		ug/L		100	72 - 126
1,2,3-Trichloropropane	20.0	20.13		ug/L		101	65 - 127
Vinyl acetate	40.0	41.23		ug/L		103	50 - 150
Xylenes, Total	40.0	39.91		ug/L		100	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: LCS 310-422067/7
Matrix: Water
Analysis Batch: 422067

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	19.56		ug/L		98	23 - 150
Chloroethane	20.0	21.02		ug/L		105	54 - 136
Chloromethane	20.0	21.42		ug/L		107	38 - 150
Trichlorofluoromethane	20.0	20.63		ug/L		103	54 - 149
Vinyl chloride	20.0	21.67		ug/L		108	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-421270/1-A
Matrix: Water
Analysis Batch: 421595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	<10.0		10.0	0.700	ug/L		05/10/24 08:43	05/14/24 14:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*73*		*25 - 110*	*05/10/24 08:43*	*05/14/24 14:09*	*1*
Phenol-d5 (Surr)	*58*		*21 - 110*	*05/10/24 08:43*	*05/14/24 14:09*	*1*
2,4,6-Tribromophenol (Surr)	*107*		*27 - 136*	*05/10/24 08:43*	*05/14/24 14:09*	*1*

Lab Sample ID: MB 310-421270/1-A
Matrix: Water
Analysis Batch: 421589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	<10.0		10.0	0.700	ug/L		05/10/24 08:43	05/14/24 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*71*		*25 - 110*	*05/10/24 08:43*	*05/14/24 15:46*	*1*
Phenol-d5 (Surr)	*71*		*21 - 110*	*05/10/24 08:43*	*05/14/24 15:46*	*1*
2,4,6-Tribromophenol (Surr)	*102*		*27 - 136*	*05/10/24 08:43*	*05/14/24 15:46*	*1*

Lab Sample ID: LCS 310-421270/2-A
Matrix: Water
Analysis Batch: 421595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421270

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylphenol, 3 & 4			100	83.05		ug/L		83	46 - 117		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*72*		*25 - 110*
Phenol-d5 (Surr)	*58*		*21 - 110*
2,4,6-Tribromophenol (Surr)	*107*		*27 - 136*

Lab Sample ID: LCS 310-421270/2-A
Matrix: Water
Analysis Batch: 421589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421270

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylphenol, 3 & 4			100	102.1		ug/L		102	46 - 117		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*68*		*25 - 110*
Phenol-d5 (Surr)	*69*		*21 - 110*
2,4,6-Tribromophenol (Surr)	*106*		*27 - 136*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-421270/3-A
Matrix: Water
Analysis Batch: 421595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421270

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*73*		*25 - 110*
Phenol-d5 (Surr)	*61*		*21 - 110*
2,4,6-Tribromophenol (Surr)	*104*		*27 - 136*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-505638/1-A
Matrix: Water
Analysis Batch: 506239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.600		0.600	0.250	ug/L		05/13/24 19:34	05/15/24 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*81*		*34 - 142*	*05/13/24 19:34*	*05/15/24 13:11*	*1*
DCAA	*95*		*34 - 142*	*05/13/24 19:34*	*05/15/24 13:11*	*1*

Lab Sample ID: LCS 410-505638/2-A
Matrix: Water
Analysis Batch: 506239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505638

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			2.51	2.786		ug/L		111	53 - 159		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*84*		*34 - 142*
DCAA	*101*		*34 - 142*

Lab Sample ID: LCSD 410-505638/3-A
Matrix: Water
Analysis Batch: 506239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 505638

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			2.51	2.801		ug/L		112	53 - 159	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCAA	*79*		*34 - 142*
DCAA	*96*		*34 - 142*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-421291/3
Matrix: Water
Analysis Batch: 421291

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200		0.200	0.0780	mg/L			05/09/24 10:12	1
Sulfate	<1.00		1.00	0.420	mg/L			05/09/24 10:12	1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: LCS 310-421291/4
Matrix: Water
Analysis Batch: 421291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.00	1.950		mg/L		98	90 - 110
Sulfate	10.0	9.446		mg/L		94	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-421329/1-A
Matrix: Water
Analysis Batch: 422392

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/21/24 20:57	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/21/24 20:57	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/13/24 09:00	05/21/24 20:57	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/21/24 20:57	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/21/24 20:57	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/21/24 20:57	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/21/24 20:57	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/21/24 20:57	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/21/24 20:57	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/21/24 20:57	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/21/24 20:57	1
Iron	<0.100		0.100	0.0360	mg/L		05/13/24 09:00	05/21/24 20:57	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/21/24 20:57	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/21/24 20:57	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/21/24 20:57	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/21/24 20:57	1
Manganese	<0.0100	^+	0.0100	0.00360	mg/L		05/13/24 09:00	05/21/24 20:57	1

Lab Sample ID: MB 310-421329/1-A
Matrix: Water
Analysis Batch: 422626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0100		0.0100	0.00360	mg/L		05/13/24 09:00	05/23/24 14:40	1

Lab Sample ID: LCS 310-421329/2-A
Matrix: Water
Analysis Batch: 422392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2399		mg/L		120	80 - 120
Arsenic	0.200	0.2080		mg/L		104	80 - 120
Barium	0.100	0.1115		mg/L		112	80 - 120
Beryllium	0.100	0.1018		mg/L		102	80 - 120
Cadmium	0.100	0.1028		mg/L		103	80 - 120
Chromium	0.100	0.09714		mg/L		97	80 - 120
Cobalt	0.100	0.09903		mg/L		99	80 - 120
Copper	0.200	0.2197		mg/L		110	80 - 120
Lead	0.200	0.2107		mg/L		105	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-421329/2-A
Matrix: Water
Analysis Batch: 422392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.2111		mg/L		106	80 - 120
Selenium	0.400	0.3988		mg/L		100	80 - 120
Iron	0.200	0.2302		mg/L		115	80 - 120
Silver	0.100	0.1027		mg/L		103	80 - 120
Thallium	0.100	0.1153		mg/L		115	80 - 120
Vanadium	0.100	0.1050		mg/L		105	80 - 120
Zinc	0.200	0.2050		mg/L		102	80 - 120

Lab Sample ID: LCS 310-421329/2-A
Matrix: Water
Analysis Batch: 422626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.1019		mg/L		102	80 - 120

Lab Sample ID: 310-280913-1 MS
Matrix: Groundwater
Analysis Batch: 422392

Client Sample ID: MW-06-7R
Prep Type: Total/NA
Prep Batch: 421329

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00200		0.200	0.2330		mg/L		117	75 - 125
Arsenic	0.00137	J	0.200	0.2068		mg/L		103	75 - 125
Barium	0.104		0.100	0.2138		mg/L		109	75 - 125
Beryllium	<0.00100		0.100	0.1049		mg/L		105	75 - 125
Cadmium	<0.000200		0.100	0.1007		mg/L		101	75 - 125
Chromium	<0.00500		0.100	0.09424		mg/L		94	75 - 125
Cobalt	<0.000500		0.100	0.09582		mg/L		96	75 - 125
Copper	<0.00500		0.200	0.2056		mg/L		103	75 - 125
Lead	<0.000500		0.200	0.2042		mg/L		102	75 - 125
Nickel	<0.00500		0.200	0.2007		mg/L		100	75 - 125
Selenium	<0.00500		0.400	0.3967		mg/L		99	75 - 125
Iron	2.85		0.200	3.145	4	mg/L		150	75 - 125
Silver	<0.00100		0.100	0.09727		mg/L		97	75 - 125
Thallium	<0.00100		0.100	0.1101		mg/L		110	75 - 125
Vanadium	<0.00500		0.100	0.1038		mg/L		104	75 - 125
Zinc	<0.0200		0.200	0.2031		mg/L		102	75 - 125

Lab Sample ID: 310-280913-1 MS
Matrix: Groundwater
Analysis Batch: 422521

Client Sample ID: MW-06-7R
Prep Type: Total/NA
Prep Batch: 421329

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	<0.00100		0.100	0.1039		mg/L		104	75 - 125

Lab Sample ID: 310-280913-1 MS
Matrix: Groundwater
Analysis Batch: 422626

Client Sample ID: MW-06-7R
Prep Type: Total/NA
Prep Batch: 421329

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.187		0.100	0.3031		mg/L		117	75 - 125

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 310-280913-1 MSD — **Client Sample ID: MW-06-7R**
Matrix: Groundwater — **Prep Type: Total/NA**
Analysis Batch: 422392 — **Prep Batch: 421329**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.2371		mg/L		119	75 - 125	2	20
Arsenic	0.00137	J	0.200	0.2063		mg/L		102	75 - 125	0	20
Barium	0.104		0.100	0.2142		mg/L		110	75 - 125	0	20
Beryllium	<0.00100		0.100	0.1039		mg/L		104	75 - 125	1	20
Cadmium	<0.000200		0.100	0.1016		mg/L		102	75 - 125	1	20
Chromium	<0.00500		0.100	0.09406		mg/L		94	75 - 125	0	20
Cobalt	<0.000500		0.100	0.09462		mg/L		95	75 - 125	1	20
Copper	<0.00500		0.200	0.2083		mg/L		104	75 - 125	1	20
Lead	<0.000500		0.200	0.2054		mg/L		103	75 - 125	1	20
Nickel	<0.00500		0.200	0.2007		mg/L		100	75 - 125	0	20
Selenium	<0.00500		0.400	0.3980		mg/L		100	75 - 125	0	20
Iron	2.85		0.200	3.095	4	mg/L		125	75 - 125	2	20
Silver	<0.00100		0.100	0.09833		mg/L		98	75 - 125	1	20
Thallium	<0.00100		0.100	0.1120		mg/L		112	75 - 125	2	20
Vanadium	<0.00500		0.100	0.1029		mg/L		103	75 - 125	1	20
Zinc	<0.0200		0.200	0.2059		mg/L		103	75 - 125	1	20

Lab Sample ID: 310-280913-1 MSD — **Client Sample ID: MW-06-7R**
Matrix: Groundwater — **Prep Type: Total/NA**
Analysis Batch: 422521 — **Prep Batch: 421329**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	<0.00100		0.100	0.1062		mg/L		106	75 - 125	2	20

Lab Sample ID: 310-280913-1 MSD — **Client Sample ID: MW-06-7R**
Matrix: Groundwater — **Prep Type: Total/NA**
Analysis Batch: 422626 — **Prep Batch: 421329**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.187		0.100	0.2900		mg/L		103	75 - 125	4	20

Lab Sample ID: 310-280913-11 DU — **Client Sample ID: MW-D1**
Matrix: Groundwater — **Prep Type: Total/NA**
Analysis Batch: 422392 — **Prep Batch: 421329**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	<0.00200			<0.00200		mg/L				NC	20
Arsenic	<0.00200			<0.00200		mg/L				NC	20
Barium	0.170			0.1736		mg/L				2	20
Beryllium	<0.00100			<0.00100		mg/L				NC	20
Cadmium	<0.000200			<0.000200		mg/L				NC	20
Chromium	<0.00500			<0.00500		mg/L				NC	20
Cobalt	<0.000500			<0.000500		mg/L				NC	20
Copper	<0.00500			<0.00500		mg/L				NC	20
Lead	0.000325	J		0.0003310	J	mg/L				2	20
Nickel	<0.00500			<0.00500		mg/L				NC	20
Selenium	<0.00500			<0.00500		mg/L				NC	20
Iron	0.162			0.2646	F3	mg/L				48	20
Silver	<0.00100			<0.00100		mg/L				NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-280913-11 DU
Matrix: Groundwater
Analysis Batch: 422392

Client Sample ID: MW-D1
Prep Type: Total/NA
Prep Batch: 421329

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	<0.00100		<0.00100		mg/L		NC	20
Vanadium	0.00117	J	0.001351	J	mg/L		15	20
Zinc	<0.0200		<0.0200		mg/L		NC	20
Manganese	0.0515		0.05191		mg/L		0.7	20

Lab Sample ID: 310-280913-11 DU
Matrix: Groundwater
Analysis Batch: 422521

Client Sample ID: MW-D1
Prep Type: Total/NA
Prep Batch: 421329

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-421368/1
Matrix: Water
Analysis Batch: 421368

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/10/24 18:57	1

Lab Sample ID: LCS 310-421368/2
Matrix: Water
Analysis Batch: 421368

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	93.00		mg/L		93	75 - 116

Lab Sample ID: MB 310-421377/1
Matrix: Water
Analysis Batch: 421377

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/11/24 06:26	1

Lab Sample ID: LCS 310-421377/2
Matrix: Water
Analysis Batch: 421377

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: MB 310-421379/1
Matrix: Water
Analysis Batch: 421379

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/11/24 07:16	1

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: LCS 310-421379/2
Matrix: Water
Analysis Batch: 421379

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: 310-280913-7 DU
Matrix: Groundwater
Analysis Batch: 421379

Client Sample ID: MW-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	100		103.0		mg/L		3	35

Lab Sample ID: MB 310-421386/1
Matrix: Water
Analysis Batch: 421386

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/11/24 10:11	1

Lab Sample ID: LCS 310-421386/2
Matrix: Water
Analysis Batch: 421386

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	116.0		mg/L		116	75 - 116

Method: SM 5310C - TOC

Lab Sample ID: MB 310-421682/12
Matrix: Water
Analysis Batch: 421682

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00		1.00	0.500	mg/L			05/14/24 13:24	1

Lab Sample ID: LCS 310-421682/13
Matrix: Water
Analysis Batch: 421682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.99	10.88		mg/L		109	85 - 115

Lab Sample ID: 310-280913-7 MS
Matrix: Groundwater
Analysis Batch: 421682

Client Sample ID: MW-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	6.01		4.99	11.41		mg/L		108	85 - 115

Method: SM 5310C - TOC (Continued)

Lab Sample ID: MB 310-422017/12
Matrix: Water
Analysis Batch: 422017

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00		1.00	0.500	mg/L			05/16/24 15:10	1

Lab Sample ID: LCS 310-422017/13
Matrix: Water
Analysis Batch: 422017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			9.99	10.92		mg/L		109	85 - 115		

Lab Sample ID: 310-280913-9 DU
Matrix: Groundwater
Analysis Batch: 422017

Client Sample ID: MW-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	2.34			2.420		mg/L				3	15

GC/MS VOA

Analysis Batch: 421604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-1	MW-06-7R	Total/NA	Groundwater	8260D	
310-280913-3	MW-05-8R	Total/NA	Groundwater	8260D	
MB 310-421604/5	Method Blank	Total/NA	Water	8260D	
LCS 310-421604/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-421604/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 421744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-12	MW-90-18	Total/NA	Groundwater	8260D	
MB 310-421744/5	Method Blank	Total/NA	Water	8260D	
LCS 310-421744/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 421866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-9	MW-32	Total/NA	Groundwater	8260D	
310-280913-10	MW-33	Total/NA	Groundwater	8260D	
310-280913-11	MW-D1	Total/NA	Groundwater	8260D	
MB 310-421866/5	Method Blank	Total/NA	Water	8260D	
LCS 310-421866/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-421866/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 422006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-2	MW-05-02	Total/NA	Groundwater	8260D	
310-280913-13	Trip Blank	Total/NA	Water	8260D	
310-280913-14	Trip Blank	Total/NA	Water	8260D	
MB 310-422006/5	Method Blank	Total/NA	Water	8260D	
LCS 310-422006/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-422006/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 422067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-4	MW-90-11	Total/NA	Groundwater	8260D	
310-280913-5	MW-19	Total/NA	Groundwater	8260D	
310-280913-6	MW-20	Total/NA	Groundwater	8260D	
310-280913-7	MW-24	Total/NA	Groundwater	8260D	
310-280913-8	MW-29	Total/NA	Groundwater	8260D	
MB 310-422067/5	Method Blank	Total/NA	Water	8260D	
LCS 310-422067/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-422067/7	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 421270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-10	MW-33	Total/NA	Groundwater	3510C	
MB 310-421270/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-421270/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 310-421270/3-A	Lab Control Sample	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 421589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-10	MW-33	Total/NA	Groundwater	8270E	421270
MB 310-421270/1-A	Method Blank	Total/NA	Water	8270E	421270
LCS 310-421270/2-A	Lab Control Sample	Total/NA	Water	8270E	421270

Analysis Batch: 421595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-421270/1-A	Method Blank	Total/NA	Water	8270E	421270
LCS 310-421270/2-A	Lab Control Sample	Total/NA	Water	8270E	421270
LCS 310-421270/3-A	Lab Control Sample	Total/NA	Water	8270E	421270

GC Semi VOA

Prep Batch: 505638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-10	MW-33	Total/NA	Groundwater	8151A	
MB 410-505638/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-505638/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-505638/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 506239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-10	MW-33	Total/NA	Groundwater	8151A	505638
MB 410-505638/1-A	Method Blank	Total/NA	Water	8151A	505638
LCS 410-505638/2-A	Lab Control Sample	Total/NA	Water	8151A	505638
LCSD 410-505638/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	505638

HPLC/IC

Analysis Batch: 421291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-4	MW-90-11	Total/NA	Groundwater	9056A	
310-280913-6	MW-20	Total/NA	Groundwater	9056A	
310-280913-7	MW-24	Total/NA	Groundwater	9056A	
310-280913-9	MW-32	Total/NA	Groundwater	9056A	
310-280913-10	MW-33	Total/NA	Groundwater	9056A	
MB 310-421291/3	Method Blank	Total/NA	Water	9056A	
LCS 310-421291/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 421329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-1	MW-06-7R	Total/NA	Groundwater	3005A	
310-280913-2	MW-05-02	Total/NA	Groundwater	3005A	
310-280913-3	MW-05-8R	Total/NA	Groundwater	3005A	
310-280913-4	MW-90-11	Total/NA	Groundwater	3005A	
310-280913-5	MW-19	Total/NA	Groundwater	3005A	
310-280913-6	MW-20	Total/NA	Groundwater	3005A	
310-280913-7	MW-24	Total/NA	Groundwater	3005A	
310-280913-8	MW-29	Total/NA	Groundwater	3005A	
310-280913-9	MW-32	Total/NA	Groundwater	3005A	
310-280913-10	MW-33	Total/NA	Groundwater	3005A	

Metals (Continued)

Prep Batch: 421329 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-11	MW-D1	Total/NA	Groundwater	3005A	
MB 310-421329/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-421329/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-280913-1 MS	MW-06-7R	Total/NA	Groundwater	3005A	
310-280913-1 MSD	MW-06-7R	Total/NA	Groundwater	3005A	
310-280913-11 DU	MW-D1	Total/NA	Groundwater	3005A	

Analysis Batch: 422392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-1	MW-06-7R	Total/NA	Groundwater	6020B	421329
310-280913-2	MW-05-02	Total/NA	Groundwater	6020B	421329
310-280913-3	MW-05-8R	Total/NA	Groundwater	6020B	421329
310-280913-4	MW-90-11	Total/NA	Groundwater	6020B	421329
310-280913-5	MW-19	Total/NA	Groundwater	6020B	421329
310-280913-6	MW-20	Total/NA	Groundwater	6020B	421329
310-280913-7	MW-24	Total/NA	Groundwater	6020B	421329
310-280913-8	MW-29	Total/NA	Groundwater	6020B	421329
310-280913-9	MW-32	Total/NA	Groundwater	6020B	421329
310-280913-10	MW-33	Total/NA	Groundwater	6020B	421329
310-280913-11	MW-D1	Total/NA	Groundwater	6020B	421329
MB 310-421329/1-A	Method Blank	Total/NA	Water	6020B	421329
LCS 310-421329/2-A	Lab Control Sample	Total/NA	Water	6020B	421329
310-280913-1 MS	MW-06-7R	Total/NA	Groundwater	6020B	421329
310-280913-1 MSD	MW-06-7R	Total/NA	Groundwater	6020B	421329
310-280913-11 DU	MW-D1	Total/NA	Groundwater	6020B	421329

Analysis Batch: 422521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-6	MW-20	Total/NA	Groundwater	6020B	421329
310-280913-1 MS	MW-06-7R	Total/NA	Groundwater	6020B	421329
310-280913-1 MSD	MW-06-7R	Total/NA	Groundwater	6020B	421329
310-280913-11 DU	MW-D1	Total/NA	Groundwater	6020B	421329

Analysis Batch: 422626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-4	MW-90-11	Total/NA	Groundwater	6020B	421329
310-280913-6	MW-20	Total/NA	Groundwater	6020B	421329
MB 310-421329/1-A	Method Blank	Total/NA	Water	6020B	421329
LCS 310-421329/2-A	Lab Control Sample	Total/NA	Water	6020B	421329
310-280913-1 MS	MW-06-7R	Total/NA	Groundwater	6020B	421329
310-280913-1 MSD	MW-06-7R	Total/NA	Groundwater	6020B	421329

General Chemistry

Analysis Batch: 421368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-3	MW-05-8R	Total/NA	Groundwater	I-3765-85	
310-280913-5	MW-19	Total/NA	Groundwater	I-3765-85	
310-280913-8	MW-29	Total/NA	Groundwater	I-3765-85	
310-280913-11	MW-D1	Total/NA	Groundwater	I-3765-85	
MB 310-421368/1	Method Blank	Total/NA	Water	I-3765-85	

General Chemistry (Continued)

Analysis Batch: 421368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-421368/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-4	MW-90-11	Total/NA	Groundwater	I-3765-85	
310-280913-6	MW-20	Total/NA	Groundwater	I-3765-85	
310-280913-9	MW-32	Total/NA	Groundwater	I-3765-85	
MB 310-421377/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421377/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-1	MW-06-7R	Total/NA	Groundwater	I-3765-85	
310-280913-7	MW-24	Total/NA	Groundwater	I-3765-85	
310-280913-10	MW-33	Total/NA	Groundwater	I-3765-85	
MB 310-421379/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421379/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-280913-7 DU	MW-24	Total/NA	Groundwater	I-3765-85	

Analysis Batch: 421386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-2	MW-05-02	Total/NA	Groundwater	I-3765-85	
MB 310-421386/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421386/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-4	MW-90-11	Total/NA	Groundwater	SM 5310C	
310-280913-6	MW-20	Total/NA	Groundwater	SM 5310C	
310-280913-7	MW-24	Total/NA	Groundwater	SM 5310C	
MB 310-421682/12	Method Blank	Total/NA	Water	SM 5310C	
LCS 310-421682/13	Lab Control Sample	Total/NA	Water	SM 5310C	
310-280913-7 MS	MW-24	Total/NA	Groundwater	SM 5310C	

Analysis Batch: 422017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280913-9	MW-32	Total/NA	Groundwater	SM 5310C	
310-280913-10	MW-33	Total/NA	Groundwater	SM 5310C	
MB 310-422017/12	Method Blank	Total/NA	Water	SM 5310C	
LCS 310-422017/13	Lab Control Sample	Total/NA	Water	SM 5310C	
310-280913-9 DU	MW-32	Total/NA	Groundwater	SM 5310C	

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-06-7R
Date Collected: 05/07/24 08:46
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-1
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421604	FE5V	EET CF	05/15/24 12:56
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:10
Total/NA	Analysis	I-3765-85		1	421379	DGU1	EET CF	05/11/24 07:16

Client Sample ID: MW-05-02
Date Collected: 05/08/24 08:52
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-2
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422006	WSE8	EET CF	05/18/24 23:20
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:21
Total/NA	Analysis	I-3765-85		1	421386	D7CP	EET CF	05/11/24 10:11

Client Sample ID: MW-05-8R
Date Collected: 05/07/24 13:54
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-3
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421604	FE5V	EET CF	05/15/24 13:19
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:23
Total/NA	Analysis	I-3765-85		1	421368	D7CP	EET CF	05/10/24 18:57

Client Sample ID: MW-90-11
Date Collected: 05/07/24 11:20
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-4
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422067	FE5V	EET CF	05/17/24 18:08
Total/NA	Analysis	9056A		1	421291	QTZ5	EET CF	05/09/24 18:10
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422626	NFT2	EET CF	05/23/24 15:11
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:25
Total/NA	Analysis	I-3765-85		1	421377	DGU1	EET CF	05/11/24 06:26
Total/NA	Analysis	SM 5310C		1	421682	DGU1	EET CF	05/15/24 03:51

Client Sample ID: MW-19
Date Collected: 05/07/24 12:50
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-5
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422067	FE5V	EET CF	05/17/24 18:31

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-19

Date Collected: 05/07/24 12:50
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-5
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:27
Total/NA	Analysis	I-3765-85		1	421368	D7CP	EET CF	05/10/24 18:57

Client Sample ID: MW-20

Date Collected: 05/07/24 12:05
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-6
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422067	FE5V	EET CF	05/17/24 18:54
Total/NA	Analysis	9056A		1	421291	QTZ5	EET CF	05/09/24 18:22
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		4	422626	NFT2	EET CF	05/23/24 15:14
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:38
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		4	422521	NFT2	EET CF	05/22/24 15:32
Total/NA	Analysis	I-3765-85		1	421377	DGU1	EET CF	05/11/24 06:26
Total/NA	Analysis	SM 5310C		1	421682	DGU1	EET CF	05/15/24 04:27

Client Sample ID: MW-24

Date Collected: 05/07/24 09:36
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-7
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422067	FE5V	EET CF	05/17/24 19:17
Total/NA	Analysis	9056A		1	421291	QTZ5	EET CF	05/09/24 17:34
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:41
Total/NA	Analysis	I-3765-85		1	421379	DGU1	EET CF	05/11/24 07:16
Total/NA	Analysis	SM 5310C		1	421682	DGU1	EET CF	05/15/24 05:03

Client Sample ID: MW-29

Date Collected: 05/07/24 10:36
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-8
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422067	FE5V	EET CF	05/17/24 19:40
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:43
Total/NA	Analysis	I-3765-85		1	421368	D7CP	EET CF	05/10/24 18:57

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: MW-32
Date Collected: 05/07/24 16:37
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-9
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421866	WSE8	EET CF	05/17/24 02:18
Total/NA	Analysis	9056A		1	421291	QTZ5	EET CF	05/09/24 17:45
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:45
Total/NA	Analysis	I-3765-85		1	421377	DGU1	EET CF	05/11/24 06:26
Total/NA	Analysis	SM 5310C		1	422017	HE7K	EET CF	05/16/24 17:34

Client Sample ID: MW-33
Date Collected: 05/07/24 15:57
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-10
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421866	WSE8	EET CF	05/17/24 02:40
Total/NA	Prep	3510C			421270	JT8P	EET CF	05/10/24 08:43
Total/NA	Analysis	8270E		1	421589	L0FS	EET CF	05/14/24 16:36
Total/NA	Prep	8151A			505638	UKL2	ELLE	05/13/24 19:34
Total/NA	Analysis	8151A		5	506239	UAMZ	ELLE	05/15/24 16:01
Total/NA	Analysis	9056A		1	421291	QTZ5	EET CF	05/09/24 17:58
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:47
Total/NA	Analysis	I-3765-85		1	421379	DGU1	EET CF	05/11/24 07:16
Total/NA	Analysis	SM 5310C		1	422017	HE7K	EET CF	05/16/24 18:46

Client Sample ID: MW-D1
Date Collected: 05/07/24 12:50
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-11
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421866	WSE8	EET CF	05/17/24 03:01
Total/NA	Prep	3005A			421329	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422392	NFT2	EET CF	05/21/24 21:49
Total/NA	Analysis	I-3765-85		1	421368	D7CP	EET CF	05/10/24 18:57

Client Sample ID: MW-90-18
Date Collected: 05/08/24 11:38
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-12
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421744	WSE8	EET CF	05/16/24 01:08

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Client Sample ID: Trip Blank
Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422006	WSE8	EET CF	05/18/24 17:54

Client Sample ID: Trip Blank
Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280913-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422006	WSE8	EET CF	05/18/24 18:16

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

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 Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24 *
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280913-1
SDG: 1st 2024 HMSP

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	ELLE
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 5310C	TOC	SM	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	ELLE

Protocol References:

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

eurofins | Environment Testing America

310-280913 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 5/9/24 | TIME 1605 | Received By: EM

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: Y

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 1 of 23 EM

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-D2, -20, -41, -90-11, -19, -24

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: Y | 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): -0.6

• **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: SLS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 5/9/24 | TIME 1605 | Received By: EM

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 2 3 EM

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-01, -42, -32, -33, -29

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: Y | 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

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 5/9/24 | TIME 1605 | Received By: EM

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 EM

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-06TR, MW-05-02, MW-05BR
MW-90-19, -40, -41, -39

Temperature Record

Coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Other:_____ ☐ NONE

Thermometer ID: Y | 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): 4.3 | Corrected Temp (°C): 4.3

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 Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone (319) 277-2401 Phone (319) 277-2425

Chain of Custody Record

Client Information	Sampler: Honner Roth	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-91973-25326 1
Client Contact: Nathan Ohrt	Phone:	E-Mail: Mary Yang@ET EurofinsUS.com	State of Origin:	Page: Page 1 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 1690 All State Court Suite 100	Due Date Requested:			
City: West Des Moines	TAT Requested (days):			
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: nohrt@scsengineers.com	WO #:			
Project Name: Clinton Co Landfill-East South Event Desc: 1st 2024 HMSP	Project #: 31002710			
Site: Iowa	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	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)	6020B - Appendix I Metals	8260D - Appendix I Volatile List (Iowa)	I_3785_85 - Total Suspended Solids	8151A - (MOD) 2,4-D	8270E - 3/4 Methylphenol	8260D - Vinyl Chloride	9056A_ORGFM_28D, 9056A_ORGFM_48H, Sulfate, Nitrate	5310C - TOC	6020B - (MOD) Appendix I List + Fe, Mn					Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	N	A	N	S	D						
MW-06-7R	5-7-24	0846	G	Water			X	X	X												SHORT HOLD
MW-05-02	5-8-24	0852	G	Water			X	X	X												Login with Sites and Events
MW-05-03				Water			X	X	X												
MW-05-8R	5-7-24	1354	G	Water			X	X	X												
MW-90-11	5-7-24	1120	G	Water				X	X				X	X	X						
MW-19	5-7-24	1250	G	Water			X	X	X												
MW-20	5-7-24	1205	G	Water				X	X				X	X	X						
MW-24	5-7-24	0936	G	Water				X	X				X	X	X						
MW-25R				Water			X	X	X												
MW-28	~~5-7-24~~			Water			X	X	X												
MW-29	5-7-24	1036	G	Water			X	X	X												

Page 75 of 79

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/9/24 1605	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

5/23/2024

Ver 01/16/2019

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone (319) 277-2401 Phone (319) 277-2425

Chain of Custody Record

Test A e ca Des Mo nes SC
214

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Client Information	Sampler	Lab PM: Yang, Mary E	Carrier Tracking No(s)	COC No: 310-91973-25326.2
Client Contact: Nathan Ohrt	Phone	E-Mail: Mary Yang@ET EurofinsUS.com	State of Origin:	Page: Page 2 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 1690 All State Court Suite 100	Due Date Requested:			
City: West Des Moines	TAT Requested (days):			
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: nohrt@scsengineers.com	WO #:			
Project Name: Clinton Co Landfill-East South 1st 2024 Event Desc: East, South	Project #: 31002710			
Site: Iowa	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	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)	6020B - Appendix I Metals	8260D - Appendix I Volatile List (Iowa)	I_3765_65 - Total Suspended Solids	8151A - (MOD) 2,4-D	8270E - 3/4 Methylphenol	8260D - Vinyl Chloride	9056A_ORGFM_28D, 9056A_ORGFM_48H, Sulfate, Nitrate	6310C - TOC	6020B - (MOD) Appendix I List + Fe, Mn				Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	N	A	N	S	D					
MW-32	5-7-24	1637	G	Water				X	X				X	X	X					SHORT HOLD
MW-33	5-7-24	1557	G	Water				X	X	X	X		X	X	X					Login with Sites and Events
UD-2				Water			X	X	X											
GU-1				Water			X	X	X											
MW-D1	5-7-24	1250	G	Water			X	X	X											
MW-90-18	5-8-24	1138	G	Water								X								
MW-34				Water								X								
Trip Blank				Water				X												

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/9/24 1605	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

5/9/2024

Ver 01/16/2019

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-72236.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Mary.Yang@ET.EurofinsUS.com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Iowa		Job #: 310-280913-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 5/22/2024			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Clinton County Landfill - East South Unit	Project #: 31002710			
Site: 310-SCS Clinton Co Landfill	SSOW#:			

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) 2,4-D/2,4,5-TP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-33 (310-280913-10)	5/7/24	15:57 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
1		5/10/24 1140				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/11/24 1110	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: Tan: 2.7 | cor: 2.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-280913-1
SDG Number: 1st 2024 HMSP

Login Number: 280913
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.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: SCS Engineers

Job Number: 310-280913-1
SDG Number: 1st 2024 HMSP

Login Number: 280913
List Number: 2
Creator: Foreman, Kai

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 05/11/24 05:49 PM

Question	Answer	Comment
The cooler's custody seal is 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Nathan Ohrt
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 5/21/2024 9:54:09 PM

JOB DESCRIPTION

Clinton County Landfill - East South Unit
1st 2024 Bedrock

JOB NUMBER

310-280925-1

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
5/21/2024 9:54:09 PM

Authorized for release by
Mary Yang, Project Management Assistant I
Mary.Yang@ET.EurofinsUS.com
(319)277-2401

Table of Contents

Job ID: 310-280925-1 Eurofins Cedar Falls

Job Narrative
310-280925-1

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 5/9/2024 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.6°C and 4.3°C.

GC/MS VOA
Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Trip Blank 1 (310-280925-6).

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: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-280925-1	MW-39	Water	05/08/24 09:47	05/09/24 16:05
310-280925-2	MW-40	Water	05/08/24 12:36	05/09/24 16:05
310-280925-3	MW-41	Water	05/07/24 17:25	05/09/24 16:05
310-280925-4	MW-42	Water	05/07/24 18:09	05/09/24 16:05
310-280925-5	MW-D2	Water	05/07/24 17:25	05/09/24 16:05
310-280925-6	Trip Blank 1	Water	05/08/24 00:00	05/09/24 16:05
310-280925-7	Trip Blank 2	Water	05/08/24 00:00	05/09/24 16:05

Detection Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: MW-39 — Lab Sample ID: 310-280925-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.327	F1	0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00192		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000458	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Total Suspended Solids	33.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-40 — Lab Sample ID: 310-280925-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0167		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	18.0		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-41 — Lab Sample ID: 310-280925-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00262		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.162		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000392	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	17.8		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-42 — Lab Sample ID: 310-280925-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.170		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	36.0		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D2 — Lab Sample ID: 310-280925-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00250		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.162		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000394	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	19.9		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank 1 — Lab Sample ID: 310-280925-6

No Detections.

Client Sample ID: Trip Blank 2 — Lab Sample ID: 310-280925-7

No Detections.

This Detection Summary does not include radiochemical test results.

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Job ID: 310-280925-1
Project/Site: Clinton County Landfill - East South Unit
SDG: 1st 2024 Bedrock

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: MW-39
Date Collected: 05/08/24 09:47
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 20:28	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 20:28	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 20:28	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 20:28	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 20:28	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 20:28	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 20:28	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 20:28	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 20:28	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 20:28	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 20:28	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 20:28	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 20:28	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 20:28	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 20:28	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 20:28	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 20:28	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 20:28	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 20:28	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 20:28	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 20:28	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 20:28	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 20:28	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 20:28	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 20:28	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 20:28	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 20:28	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 20:28	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 20:28	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 20:28	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 20:28	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 20:28	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 20:28	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 20:28	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 20:28	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 20:28	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 20:28	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 20:28	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 20:28	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 20:28	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 20:28	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 20:28	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 20:28	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 20:28	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 20:28	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 20:28	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/17/24 20:28*	*1*

Client Sample ID: MW-39

Date Collected: 05/08/24 09:47
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*05/17/24 20:28*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 20:28*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/14/24 09:30	05/15/24 21:15	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/14/24 09:30	05/15/24 21:15	1
Barium	**0.327**	**F1**	0.00200	0.000660	mg/L		05/14/24 09:30	05/15/24 21:15	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/24 09:30	05/15/24 21:15	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/24 09:30	05/15/24 21:15	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/14/24 09:30	05/15/24 21:15	1
Cobalt	**0.00192**		0.000500	0.000170	mg/L		05/14/24 09:30	05/15/24 21:15	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/14/24 09:30	05/15/24 21:15	1
Lead	**0.000458**	**J**	0.000500	0.000260	mg/L		05/14/24 09:30	05/15/24 21:15	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/14/24 09:30	05/15/24 21:15	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/24 09:30	05/15/24 21:15	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/24 09:30	05/15/24 21:15	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/24 09:30	05/15/24 21:15	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/14/24 09:30	05/15/24 21:15	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/14/24 09:30	05/15/24 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**33.0**		7.50	5.55	mg/L			05/13/24 10:59	1

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: MW-40
Date Collected: 05/08/24 12:36
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 20:50	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 20:50	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 20:50	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 20:50	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 20:50	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 20:50	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 20:50	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 20:50	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 20:50	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 20:50	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 20:50	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 20:50	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 20:50	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 20:50	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 20:50	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 20:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 20:50	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 20:50	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 20:50	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 20:50	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 20:50	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 20:50	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 20:50	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 20:50	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 20:50	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 20:50	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 20:50	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 20:50	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 20:50	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 20:50	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 20:50	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 20:50	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 20:50	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 20:50	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 20:50	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 20:50	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 20:50	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 20:50	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 20:50	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 20:50	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 20:50	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 20:50	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 20:50	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 20:50	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 20:50	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 20:50	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/17/24 20:50*	*1*

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: MW-40
Date Collected: 05/08/24 12:36
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*05/17/24 20:50*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 20:50*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/14/24 09:30	05/15/24 21:35	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/14/24 09:30	05/15/24 21:35	1
Barium	**0.0167**		0.00200	0.000660	mg/L		05/14/24 09:30	05/15/24 21:35	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/24 09:30	05/15/24 21:35	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/24 09:30	05/15/24 21:35	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/14/24 09:30	05/15/24 21:35	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/14/24 09:30	05/15/24 21:35	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/14/24 09:30	05/15/24 21:35	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/14/24 09:30	05/15/24 21:35	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/14/24 09:30	05/15/24 21:35	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/24 09:30	05/15/24 21:35	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/24 09:30	05/15/24 21:35	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/24 09:30	05/15/24 21:35	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/14/24 09:30	05/15/24 21:35	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/14/24 09:30	05/15/24 21:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**18.0**		1.88	1.39	mg/L			05/11/24 12:13	1

Client Sample ID: MW-41
Date Collected: 05/07/24 17:25
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 21:12	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 21:12	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 21:12	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 21:12	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 21:12	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 21:12	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 21:12	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 21:12	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 21:12	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 21:12	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 21:12	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 21:12	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 21:12	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 21:12	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 21:12	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 21:12	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 21:12	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 21:12	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 21:12	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 21:12	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 21:12	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 21:12	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 21:12	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 21:12	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 21:12	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 21:12	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 21:12	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 21:12	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 21:12	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 21:12	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 21:12	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 21:12	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 21:12	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 21:12	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 21:12	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 21:12	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 21:12	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 21:12	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 21:12	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 21:12	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 21:12	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 21:12	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 21:12	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 21:12	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 21:12	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 21:12	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/17/24 21:12*	*1*

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: MW-41
Date Collected: 05/07/24 17:25
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*05/17/24 21:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/17/24 21:12*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/14/24 09:30	05/15/24 21:37	1
Arsenic	**0.00262**		0.00200	0.000530	mg/L		05/14/24 09:30	05/15/24 21:37	1
Barium	**0.162**		0.00200	0.000660	mg/L		05/14/24 09:30	05/15/24 21:37	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/24 09:30	05/15/24 21:37	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/24 09:30	05/15/24 21:37	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/14/24 09:30	05/15/24 21:37	1
Cobalt	**0.000392**	**J**	0.000500	0.000170	mg/L		05/14/24 09:30	05/15/24 21:37	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/14/24 09:30	05/15/24 21:37	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/14/24 09:30	05/15/24 21:37	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/14/24 09:30	05/15/24 21:37	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/24 09:30	05/15/24 21:37	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/24 09:30	05/15/24 21:37	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/24 09:30	05/15/24 21:37	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/14/24 09:30	05/15/24 21:37	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/14/24 09:30	05/15/24 21:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**17.8**		1.88	1.39	mg/L			05/10/24 18:57	1

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: MW-42
Date Collected: 05/07/24 18:09
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 21:33	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 21:33	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 21:33	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 21:33	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 21:33	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 21:33	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 21:33	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 21:33	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 21:33	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 21:33	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 21:33	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 21:33	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 21:33	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 21:33	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 21:33	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 21:33	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 21:33	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 21:33	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 21:33	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 21:33	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 21:33	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 21:33	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 21:33	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 21:33	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 21:33	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 21:33	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 21:33	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 21:33	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 21:33	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 21:33	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 21:33	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 21:33	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 21:33	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 21:33	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 21:33	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 21:33	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 21:33	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 21:33	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 21:33	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 21:33	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 21:33	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 21:33	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 21:33	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 21:33	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 21:33	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 21:33	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/17/24 21:33*	*1*

Client Sample ID: MW-42

Date Collected: 05/07/24 18:09
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*05/17/24 21:33*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 21:33*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/14/24 09:30	05/15/24 21:39	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/14/24 09:30	05/15/24 21:39	1
Barium	**0.170**		0.00200	0.000660	mg/L		05/14/24 09:30	05/15/24 21:39	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/24 09:30	05/15/24 21:39	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/24 09:30	05/15/24 21:39	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/14/24 09:30	05/15/24 21:39	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/14/24 09:30	05/15/24 21:39	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/14/24 09:30	05/15/24 21:39	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/14/24 09:30	05/15/24 21:39	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/14/24 09:30	05/15/24 21:39	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/24 09:30	05/15/24 21:39	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/24 09:30	05/15/24 21:39	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/24 09:30	05/15/24 21:39	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/14/24 09:30	05/15/24 21:39	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/14/24 09:30	05/15/24 21:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**36.0**		1.88	1.39	mg/L			05/10/24 18:57	1

Client Sample ID: MW-D2
Date Collected: 05/07/24 17:25
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 21:55	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 21:55	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 21:55	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 21:55	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 21:55	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 21:55	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 21:55	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 21:55	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 21:55	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 21:55	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 21:55	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 21:55	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 21:55	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 21:55	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 21:55	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 21:55	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 21:55	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 21:55	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 21:55	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 21:55	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 21:55	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 21:55	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 21:55	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 21:55	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 21:55	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 21:55	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 21:55	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 21:55	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 21:55	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 21:55	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 21:55	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 21:55	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 21:55	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 21:55	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 21:55	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 21:55	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 21:55	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 21:55	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 21:55	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 21:55	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 21:55	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 21:55	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 21:55	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 21:55	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 21:55	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 21:55	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*05/17/24 21:55*	*1*

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: MW-D2
Date Collected: 05/07/24 17:25
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*05/17/24 21:55*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/17/24 21:55*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/14/24 09:30	05/15/24 21:41	1
Arsenic	**0.00250**		0.00200	0.000530	mg/L		05/14/24 09:30	05/15/24 21:41	1
Barium	**0.162**		0.00200	0.000660	mg/L		05/14/24 09:30	05/15/24 21:41	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/24 09:30	05/15/24 21:41	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/24 09:30	05/15/24 21:41	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/14/24 09:30	05/15/24 21:41	1
Cobalt	**0.000394**	**J**	0.000500	0.000170	mg/L		05/14/24 09:30	05/15/24 21:41	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/14/24 09:30	05/15/24 21:41	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/14/24 09:30	05/15/24 21:41	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/14/24 09:30	05/15/24 21:41	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/24 09:30	05/15/24 21:41	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/24 09:30	05/15/24 21:41	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/24 09:30	05/15/24 21:41	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/14/24 09:30	05/15/24 21:41	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/14/24 09:30	05/15/24 21:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**19.9**		1.88	1.39	mg/L			05/11/24 07:16	1

Client Sample ID: Trip Blank 1

Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/18/24 18:37	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/18/24 18:37	1
Benzene	<0.500		0.500	0.220	ug/L			05/18/24 18:37	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/18/24 18:37	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/18/24 18:37	1
Bromoform	<5.00		5.00	0.780	ug/L			05/18/24 18:37	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/18/24 18:37	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/18/24 18:37	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/18/24 18:37	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/18/24 18:37	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/18/24 18:37	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/18/24 18:37	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/18/24 18:37	1
Chloroform	<3.00		3.00	1.30	ug/L			05/18/24 18:37	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/18/24 18:37	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/18/24 18:37	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/18/24 18:37	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/18/24 18:37	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/18/24 18:37	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/18/24 18:37	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/18/24 18:37	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/18/24 18:37	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/18/24 18:37	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/18/24 18:37	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/18/24 18:37	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/18/24 18:37	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/18/24 18:37	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/18/24 18:37	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/18/24 18:37	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/18/24 18:37	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/18/24 18:37	1
Styrene	<1.00		1.00	0.370	ug/L			05/18/24 18:37	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/18/24 18:37	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/18/24 18:37	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/18/24 18:37	1
Toluene	<1.00		1.00	0.430	ug/L			05/18/24 18:37	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/18/24 18:37	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/18/24 18:37	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/18/24 18:37	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/18/24 18:37	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/18/24 18:37	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/18/24 18:37	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/18/24 18:37	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/18/24 18:37	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/18/24 18:37	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/18/24 18:37	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/18/24 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/18/24 18:37*	*1*

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: Trip Blank 1
Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*05/18/24 18:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/18/24 18:37*	*1*

Client Sample ID: Trip Blank 2

Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-7

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/18/24 18:59	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/18/24 18:59	1
Benzene	<0.500		0.500	0.220	ug/L			05/18/24 18:59	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/18/24 18:59	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/18/24 18:59	1
Bromoform	<5.00		5.00	0.780	ug/L			05/18/24 18:59	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/18/24 18:59	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/18/24 18:59	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/18/24 18:59	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/18/24 18:59	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/18/24 18:59	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/18/24 18:59	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/18/24 18:59	1
Chloroform	<3.00		3.00	1.30	ug/L			05/18/24 18:59	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/18/24 18:59	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/18/24 18:59	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/18/24 18:59	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/18/24 18:59	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/18/24 18:59	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/18/24 18:59	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/18/24 18:59	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/18/24 18:59	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/18/24 18:59	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/18/24 18:59	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/18/24 18:59	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/18/24 18:59	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/18/24 18:59	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/18/24 18:59	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/18/24 18:59	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/18/24 18:59	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/18/24 18:59	1
Styrene	<1.00		1.00	0.370	ug/L			05/18/24 18:59	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/18/24 18:59	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/18/24 18:59	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/18/24 18:59	1
Toluene	<1.00		1.00	0.430	ug/L			05/18/24 18:59	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/18/24 18:59	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/18/24 18:59	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/18/24 18:59	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/18/24 18:59	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/18/24 18:59	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/18/24 18:59	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/18/24 18:59	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/18/24 18:59	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/18/24 18:59	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/18/24 18:59	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/18/24 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/18/24 18:59*	*1*

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: Trip Blank 2
Date Collected: 05/08/24 00:00
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*05/18/24 18:59*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/18/24 18:59*	*1*

Qualifiers

Metals

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.

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: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-280925-1	MW-39	105	100	98
310-280925-2	MW-40	105	105	97
310-280925-3	MW-41	104	103	96
310-280925-4	MW-42	101	106	97
310-280925-5	MW-D2	109	99	101
310-280925-6	Trip Blank 1	103	104	100
310-280925-7	Trip Blank 2	104	102	98
LCS 310-421992/6	Lab Control Sample	103	93	103
LCS 310-421992/7	Lab Control Sample	106	102	100
LCS 310-422006/6	Lab Control Sample	102	96	104
LCS 310-422006/7	Lab Control Sample	107	99	100
MB 310-421992/5	Method Blank	103	100	97
MB 310-422006/5	Method Blank	106	99	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-421992/5
Matrix: Water
Analysis Batch: 421992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 18:17	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 18:17	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 18:17	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 18:17	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 18:17	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 18:17	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 18:17	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 18:17	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 18:17	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 18:17	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 18:17	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 18:17	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 18:17	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 18:17	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 18:17	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 18:17	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 18:17	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 18:17	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 18:17	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 18:17	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 18:17	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 18:17	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 18:17	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 18:17	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 18:17	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 18:17	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 18:17	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 18:17	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 18:17	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 18:17	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 18:17	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 18:17	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 18:17	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 18:17	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 18:17	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 18:17	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 18:17	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 18:17	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 18:17	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 18:17	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 18:17	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 18:17	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 18:17	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 18:17	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 18:17	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 18:17	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 18:17	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-421992/5
Matrix: Water
Analysis Batch: 421992

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		05/17/24 18:17	1
Dibromofluoromethane (Surr)	100		73 - 130		05/17/24 18:17	1
Toluene-d8 (Surr)	97		80 - 120		05/17/24 18:17	1

Lab Sample ID: LCS 310-421992/6
Matrix: Water
Analysis Batch: 421992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	36.69		ug/L		92	50 - 150
Acrylonitrile	200	189.6		ug/L		95	50 - 150
Benzene	20.0	18.65		ug/L		93	72 - 124
Bromochloromethane	20.0	18.06		ug/L		90	73 - 130
Bromodichloromethane	20.0	17.35		ug/L		87	74 - 122
Bromoform	20.0	16.91		ug/L		85	61 - 122
2-Butanone (MEK)	40.0	35.90		ug/L		90	50 - 150
Carbon disulfide	20.0	18.23		ug/L		91	59 - 135
Carbon tetrachloride	20.0	17.49		ug/L		87	67 - 132
Chlorobenzene	20.0	18.64		ug/L		93	76 - 120
Chlorodibromomethane	20.0	17.39		ug/L		87	71 - 121
Chloroform	20.0	17.87		ug/L		89	72 - 125
cis-1,2-Dichloroethene	20.0	18.04		ug/L		90	74 - 123
cis-1,3-Dichloropropene	20.0	18.76		ug/L		94	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.83		ug/L		99	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.04		ug/L		90	75 - 125
Dibromomethane	20.0	18.38		ug/L		92	74 - 125
1,2-Dichlorobenzene	20.0	19.00		ug/L		95	74 - 120
1,4-Dichlorobenzene	20.0	18.63		ug/L		93	72 - 120
1,1-Dichloroethane	20.0	18.31		ug/L		92	70 - 127
1,2-Dichloroethane	20.0	17.04		ug/L		85	71 - 125
1,1-Dichloroethene	20.0	17.51		ug/L		88	63 - 132
1,2-Dichloropropane	20.0	19.09		ug/L		95	73 - 124
Ethylbenzene	20.0	19.13		ug/L		96	74 - 122
2-Hexanone	40.0	36.04		ug/L		90	60 - 140
Iodomethane	20.0	12.07		ug/L		60	10 - 150
Methylene Chloride	20.0	20.77		ug/L		104	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	36.80		ug/L		92	60 - 139
Styrene	20.0	18.85		ug/L		94	74 - 121
1,1,1,2-Tetrachloroethane	20.0	18.60		ug/L		93	71 - 120
1,1,2,2-Tetrachloroethane	20.0	18.59		ug/L		93	68 - 124
Tetrachloroethene	20.0	17.51		ug/L		88	71 - 130
Toluene	20.0	18.24		ug/L		91	74 - 123
trans-1,4-Dichloro-2-butene	20.0	17.16		ug/L		86	50 - 150
trans-1,2-Dichloroethene	20.0	17.99		ug/L		90	70 - 126
trans-1,3-Dichloropropene	20.0	17.56		ug/L		88	69 - 123
1,1,1-Trichloroethane	20.0	17.39		ug/L		87	73 - 129
1,1,2-Trichloroethane	20.0	19.22		ug/L		96	73 - 123
Trichloroethene	20.0	18.43		ug/L		92	72 - 126

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-421992/6
Matrix: Water
Analysis Batch: 421992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	18.38		ug/L		92	65 - 127
Vinyl acetate	40.0	34.45		ug/L		86	50 - 150
Xylenes, Total	40.0	38.40		ug/L		96	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*73 - 130*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCS 310-421992/7
Matrix: Water
Analysis Batch: 421992

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	20.14		ug/L		101	23 - 150
Chloroethane	20.0	20.53		ug/L		103	54 - 136
Chloromethane	20.0	21.69		ug/L		108	38 - 150
Trichlorofluoromethane	20.0	19.52		ug/L		98	54 - 149
Vinyl chloride	20.0	20.77		ug/L		104	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 310-422006/5
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/18/24 15:43	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/18/24 15:43	1
Benzene	<0.500		0.500	0.220	ug/L			05/18/24 15:43	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/18/24 15:43	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/18/24 15:43	1
Bromoform	<5.00		5.00	0.780	ug/L			05/18/24 15:43	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/18/24 15:43	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/18/24 15:43	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/18/24 15:43	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/18/24 15:43	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/18/24 15:43	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/18/24 15:43	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/18/24 15:43	1
Chloroform	<3.00		3.00	1.30	ug/L			05/18/24 15:43	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/18/24 15:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/18/24 15:43	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/18/24 15:43	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/18/24 15:43	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-422006/5
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/18/24 15:43	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/18/24 15:43	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/18/24 15:43	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/18/24 15:43	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/18/24 15:43	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/18/24 15:43	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/18/24 15:43	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/18/24 15:43	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/18/24 15:43	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/18/24 15:43	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/18/24 15:43	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/18/24 15:43	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/18/24 15:43	1
Styrene	<1.00		1.00	0.370	ug/L			05/18/24 15:43	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/18/24 15:43	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/18/24 15:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/18/24 15:43	1
Toluene	<1.00		1.00	0.430	ug/L			05/18/24 15:43	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/18/24 15:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/18/24 15:43	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/18/24 15:43	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/18/24 15:43	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/18/24 15:43	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/18/24 15:43	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/18/24 15:43	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/18/24 15:43	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/18/24 15:43	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/18/24 15:43	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/18/24 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/18/24 15:43*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*05/18/24 15:43*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/18/24 15:43*	*1*

Lab Sample ID: LCS 310-422006/6
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	38.50		ug/L		96	50 - 150
Acrylonitrile	200	197.3		ug/L		99	50 - 150
Benzene	20.0	19.32		ug/L		97	72 - 124
Bromochloromethane	20.0	18.02		ug/L		90	73 - 130
Bromodichloromethane	20.0	17.92		ug/L		90	74 - 122
Bromoform	20.0	17.16		ug/L		86	61 - 122
2-Butanone (MEK)	40.0	39.80		ug/L		100	50 - 150
Carbon disulfide	20.0	19.79		ug/L		99	59 - 135

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-422006/6
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	20.0	18.10		ug/L		91	67 - 132
Chlorobenzene	20.0	18.87		ug/L		94	76 - 120
Chlorodibromomethane	20.0	17.74		ug/L		89	71 - 121
Chloroform	20.0	18.78		ug/L		94	72 - 125
cis-1,2-Dichloroethene	20.0	18.51		ug/L		93	74 - 123
cis-1,3-Dichloropropene	20.0	19.12		ug/L		96	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.60		ug/L		98	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.45		ug/L		92	75 - 125
Dibromomethane	20.0	18.01		ug/L		90	74 - 125
1,2-Dichlorobenzene	20.0	19.45		ug/L		97	74 - 120
1,4-Dichlorobenzene	20.0	18.68		ug/L		93	72 - 120
1,1-Dichloroethane	20.0	18.78		ug/L		94	70 - 127
1,2-Dichloroethane	20.0	17.41		ug/L		87	71 - 125
1,1-Dichloroethene	20.0	18.66		ug/L		93	63 - 132
1,2-Dichloropropane	20.0	19.90		ug/L		100	73 - 124
Ethylbenzene	20.0	20.09		ug/L		100	74 - 122
2-Hexanone	40.0	37.42		ug/L		94	60 - 140
Iodomethane	20.0	17.51		ug/L		88	10 - 150
Methylene Chloride	20.0	20.64		ug/L		103	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	37.69		ug/L		94	60 - 139
Styrene	20.0	19.25		ug/L		96	74 - 121
1,1,1,2-Tetrachloroethane	20.0	18.73		ug/L		94	71 - 120
1,1,2,2-Tetrachloroethane	20.0	19.14		ug/L		96	68 - 124
Tetrachloroethene	20.0	18.59		ug/L		93	71 - 130
Toluene	20.0	18.63		ug/L		93	74 - 123
trans-1,4-Dichloro-2-butene	20.0	18.55		ug/L		93	50 - 150
trans-1,2-Dichloroethene	20.0	18.51		ug/L		93	70 - 126
trans-1,3-Dichloropropene	20.0	18.30		ug/L		91	69 - 123
1,1,1-Trichloroethane	20.0	18.13		ug/L		91	73 - 129
1,1,2-Trichloroethane	20.0	19.41		ug/L		97	73 - 123
Trichloroethene	20.0	19.21		ug/L		96	72 - 126
1,2,3-Trichloropropane	20.0	18.64		ug/L		93	65 - 127
Vinyl acetate	40.0	34.85		ug/L		87	50 - 150
Xylenes, Total	40.0	39.28		ug/L		98	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*73 - 130*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCS 310-422006/7
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	21.01		ug/L		105	23 - 150
Chloroethane	20.0	21.19		ug/L		106	54 - 136
Chloromethane	20.0	23.66		ug/L		118	38 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-422006/7
Matrix: Water
Analysis Batch: 422006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	20.0	20.44		ug/L		102	54 - 149
Vinyl chloride	20.0	22.92		ug/L		115	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-421472/1-A
Matrix: Water
Analysis Batch: 421811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/14/24 09:30	05/15/24 16:20	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/14/24 09:30	05/15/24 16:20	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/14/24 09:30	05/15/24 16:20	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/14/24 09:30	05/15/24 16:20	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/14/24 09:30	05/15/24 16:20	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/14/24 09:30	05/15/24 16:20	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/14/24 09:30	05/15/24 16:20	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/14/24 09:30	05/15/24 16:20	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/14/24 09:30	05/15/24 16:20	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/14/24 09:30	05/15/24 16:20	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/14/24 09:30	05/15/24 16:20	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/14/24 09:30	05/15/24 16:20	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/14/24 09:30	05/15/24 16:20	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/14/24 09:30	05/15/24 16:20	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/14/24 09:30	05/15/24 16:20	1

Lab Sample ID: LCS 310-421472/2-A
Matrix: Water
Analysis Batch: 421811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2193		mg/L		110	80 - 120
Arsenic	0.200	0.2013		mg/L		101	80 - 120
Barium	0.100	0.1061		mg/L		106	80 - 120
Beryllium	0.100	0.09729		mg/L		97	80 - 120
Cadmium	0.100	0.1015		mg/L		102	80 - 120
Chromium	0.100	0.09621		mg/L		96	80 - 120
Cobalt	0.100	0.1080		mg/L		108	80 - 120
Copper	0.200	0.2103		mg/L		105	80 - 120
Lead	0.200	0.2084		mg/L		104	80 - 120
Nickel	0.200	0.2080		mg/L		104	80 - 120
Selenium	0.400	0.3950		mg/L		99	80 - 120
Silver	0.100	0.1095		mg/L		109	80 - 120
Thallium	0.100	0.1138		mg/L		114	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-421472/2-A
Matrix: Water
Analysis Batch: 421811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	0.100	0.09298		mg/L		93	80 - 120
Zinc	0.200	0.2008		mg/L		100	80 - 120

Lab Sample ID: 310-280925-1 MS
Matrix: Water
Analysis Batch: 421844

Client Sample ID: MW-39
Prep Type: Total/NA
Prep Batch: 421472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00200		0.200	0.2131		mg/L		107	75 - 125
Arsenic	<0.00200		0.200	0.2009		mg/L		100	75 - 125
Barium	0.327	F1	0.100	0.4849	F1	mg/L		158	75 - 125
Beryllium	<0.00100		0.100	0.1006		mg/L		101	75 - 125
Cadmium	<0.000200		0.100	0.09863		mg/L		99	75 - 125
Chromium	<0.00500		0.100	0.09527		mg/L		95	75 - 125
Cobalt	0.00192		0.100	0.1052		mg/L		103	75 - 125
Copper	<0.00500		0.200	0.2026		mg/L		101	75 - 125
Lead	0.000458	J	0.200	0.2081		mg/L		104	75 - 125
Nickel	<0.00500		0.200	0.2009		mg/L		100	75 - 125
Selenium	<0.00500		0.400	0.3912		mg/L		98	75 - 125
Silver	<0.00100		0.100	0.1089		mg/L		109	75 - 125
Thallium	<0.00100		0.100	0.1110		mg/L		111	75 - 125
Vanadium	<0.00500		0.100	0.09356		mg/L		94	75 - 125
Zinc	<0.0200		0.200	0.1937		mg/L		97	75 - 125

Lab Sample ID: 310-280925-1 MSD
Matrix: Water
Analysis Batch: 421844

Client Sample ID: MW-39
Prep Type: Total/NA
Prep Batch: 421472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.2129		mg/L		106	75 - 125	0	20
Arsenic	<0.00200		0.200	0.2006		mg/L		100	75 - 125	0	20
Barium	0.327	F1	0.100	0.4509		mg/L		124	75 - 125	7	20
Beryllium	<0.00100		0.100	0.09933		mg/L		99	75 - 125	1	20
Cadmium	<0.000200		0.100	0.09886		mg/L		99	75 - 125	0	20
Chromium	<0.00500		0.100	0.09660		mg/L		97	75 - 125	1	20
Cobalt	0.00192		0.100	0.1059		mg/L		104	75 - 125	1	20
Copper	<0.00500		0.200	0.2054		mg/L		103	75 - 125	1	20
Lead	0.000458	J	0.200	0.2058		mg/L		103	75 - 125	1	20
Nickel	<0.00500		0.200	0.2022		mg/L		101	75 - 125	1	20
Selenium	<0.00500		0.400	0.3920		mg/L		98	75 - 125	0	20
Silver	<0.00100		0.100	0.1059		mg/L		106	75 - 125	3	20
Thallium	<0.00100		0.100	0.1113		mg/L		111	75 - 125	0	20
Vanadium	<0.00500		0.100	0.09408		mg/L		94	75 - 125	1	20
Zinc	<0.0200		0.200	0.1978		mg/L		99	75 - 125	2	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-421368/1
Matrix: Water
Analysis Batch: 421368

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/10/24 18:57	1

Lab Sample ID: LCS 310-421368/2
Matrix: Water
Analysis Batch: 421368

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	93.00		mg/L		93	75 - 116

Lab Sample ID: MB 310-421379/1
Matrix: Water
Analysis Batch: 421379

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/11/24 07:16	1

Lab Sample ID: LCS 310-421379/2
Matrix: Water
Analysis Batch: 421379

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: MB 310-421394/1
Matrix: Water
Analysis Batch: 421394

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/11/24 12:13	1

Lab Sample ID: LCS 310-421394/2
Matrix: Water
Analysis Batch: 421394

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	75 - 116

Lab Sample ID: MB 310-421466/1
Matrix: Water
Analysis Batch: 421466

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/13/24 10:59	1

Lab Sample ID: LCS 310-421466/2
Matrix: Water
Analysis Batch: 421466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	101.0		mg/L		101	75 - 116

GC/MS VOA

Analysis Batch: 421992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280925-1	MW-39	Total/NA	Water	8260D	
310-280925-2	MW-40	Total/NA	Water	8260D	
310-280925-3	MW-41	Total/NA	Water	8260D	
310-280925-4	MW-42	Total/NA	Water	8260D	
310-280925-5	MW-D2	Total/NA	Water	8260D	
MB 310-421992/5	Method Blank	Total/NA	Water	8260D	
LCS 310-421992/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-421992/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 422006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280925-6	Trip Blank 1	Total/NA	Water	8260D	
310-280925-7	Trip Blank 2	Total/NA	Water	8260D	
MB 310-422006/5	Method Blank	Total/NA	Water	8260D	
LCS 310-422006/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-422006/7	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 421472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280925-1	MW-39	Total/NA	Water	3005A	
310-280925-2	MW-40	Total/NA	Water	3005A	
310-280925-3	MW-41	Total/NA	Water	3005A	
310-280925-4	MW-42	Total/NA	Water	3005A	
310-280925-5	MW-D2	Total/NA	Water	3005A	
MB 310-421472/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-421472/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-280925-1 MS	MW-39	Total/NA	Water	3005A	
310-280925-1 MSD	MW-39	Total/NA	Water	3005A	

Analysis Batch: 421811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-421472/1-A	Method Blank	Total/NA	Water	6020B	421472
LCS 310-421472/2-A	Lab Control Sample	Total/NA	Water	6020B	421472

Analysis Batch: 421844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280925-1	MW-39	Total/NA	Water	6020B	421472
310-280925-2	MW-40	Total/NA	Water	6020B	421472
310-280925-3	MW-41	Total/NA	Water	6020B	421472
310-280925-4	MW-42	Total/NA	Water	6020B	421472
310-280925-5	MW-D2	Total/NA	Water	6020B	421472
310-280925-1 MS	MW-39	Total/NA	Water	6020B	421472
310-280925-1 MSD	MW-39	Total/NA	Water	6020B	421472

General Chemistry

Analysis Batch: 421368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280925-3	MW-41	Total/NA	Water	I-3765-85	
310-280925-4	MW-42	Total/NA	Water	I-3765-85	

General Chemistry (Continued)

Analysis Batch: 421368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-421368/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421368/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280925-5	MW-D2	Total/NA	Water	I-3765-85	
MB 310-421379/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421379/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280925-2	MW-40	Total/NA	Water	I-3765-85	
MB 310-421394/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421394/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280925-1	MW-39	Total/NA	Water	I-3765-85	
MB 310-421466/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421466/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: MW-39

Date Collected: 05/08/24 09:47
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421992	WSE8	EET CF	05/17/24 20:28
Total/NA	Prep	3005A			421472	KM3E	EET CF	05/14/24 09:30
Total/NA	Analysis	6020B		1	421844	NFT2	EET CF	05/15/24 21:15
Total/NA	Analysis	I-3765-85		1	421466	DGU1	EET CF	05/13/24 10:59

Client Sample ID: MW-40

Date Collected: 05/08/24 12:36
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421992	WSE8	EET CF	05/17/24 20:50
Total/NA	Prep	3005A			421472	KM3E	EET CF	05/14/24 09:30
Total/NA	Analysis	6020B		1	421844	NFT2	EET CF	05/15/24 21:35
Total/NA	Analysis	I-3765-85		1	421394	D7CP	EET CF	05/11/24 12:13

Client Sample ID: MW-41

Date Collected: 05/07/24 17:25
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421992	WSE8	EET CF	05/17/24 21:12
Total/NA	Prep	3005A			421472	KM3E	EET CF	05/14/24 09:30
Total/NA	Analysis	6020B		1	421844	NFT2	EET CF	05/15/24 21:37
Total/NA	Analysis	I-3765-85		1	421368	D7CP	EET CF	05/10/24 18:57

Client Sample ID: MW-42

Date Collected: 05/07/24 18:09
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421992	WSE8	EET CF	05/17/24 21:33
Total/NA	Prep	3005A			421472	KM3E	EET CF	05/14/24 09:30
Total/NA	Analysis	6020B		1	421844	NFT2	EET CF	05/15/24 21:39
Total/NA	Analysis	I-3765-85		1	421368	D7CP	EET CF	05/10/24 18:57

Client Sample ID: MW-D2

Date Collected: 05/07/24 17:25
Date Received: 05/09/24 16:05

Lab Sample ID: 310-280925-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421992	WSE8	EET CF	05/17/24 21:55
Total/NA	Prep	3005A			421472	KM3E	EET CF	05/14/24 09:30
Total/NA	Analysis	6020B		1	421844	NFT2	EET CF	05/15/24 21:41
Total/NA	Analysis	I-3765-85		1	421379	DGU1	EET CF	05/11/24 07:16

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-280925-6

Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422006	WSE8	EET CF	05/18/24 18:37

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-280925-7

Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422006	WSE8	EET CF	05/18/24 18:59

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-280925-1
Project/Site: Clinton County Landfill - East South Unit
SDG: 1st 2024 Bedrock

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

Method Summary

Client: SCS Engineers
Project/Site: Clinton County Landfill - East South Unit

Job ID: 310-280925-1
SDG: 1st 2024 Bedrock

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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310-280925 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: SCS			
City/State: Lk St Dsm	CITY	STATE FA	Project: Clinton Co
Receipt Information			
Date/Time Received:	DATE 5/9/24	TIME 1605	Received By:

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? ↓

MW-41

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 4	Correction Factor (°C):

• **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

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Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY West Bend STATE WI Project: Clinton Co

Receipt Information

Date/Time Received: DATE 5/9/24 TIME 1005 Received By:

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? ↓

MW-40, -41, -37

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 4 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): 4.3 Corrected Temp (°C): 4.3

• **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 Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

TestAmerica Des Moines SC
214

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Client Information	Sampler: Honner Roth	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-93200-25581 1
Client Contact: Nathan Ohrt	Phone:	E-Mail: Mary Yang@ET EurofinsUS.com	State of Origin:	Page: Page 1 of 1
Company: SCS Engineers	PWSID:			Job #:
Address: 1690 All State Court Suite 100	Due Date Requested.			
City: West Des Moines	TAT Requested (days):			
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: nohrt@scsengineers.com	WO #:			
Project Name: Clinton County Landfill - additional	Project #: 31002710			
Site: Iowa	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
A - HCL
N - None

Other:

Sample Identification	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)	6020B - Appendix I or II	8260D - Volatile Appendix 1 Sublist	I_3766_86 - Residue, Non-filterable (TSS)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N		
MW-39	5-8-24	0947	G	Water							
MW-40	5-8-24	1236	G	Water							
MW-41	5-7-24	1725	G	Water							
MW-42	5-7-24	1809	G	Water							
MW-D2	5-7-24	1725	G	Water							
Trip Blank				Water							

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Honner Roth	5-9-24 - 14:00	SCS		5/9/24 1605	
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:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-280925-1
SDG Number: 1st 2024 Bedrock

Login Number: 280925
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.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Nathan Ohrt
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 11/19/2024 10:14:09 PM

JOB DESCRIPTION

Clinton County S. Fall 2024 GW
Clinton County South Landfill

JOB NUMBER

310-294759-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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11/19/2024 10:14:09 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)277-2401

Table of Contents

Job Narrative
310-294759-1

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 11/7/2024 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 4.3°C, 4.4°C, 5.6°C and 17.0°C.

GC/MS VOA
Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Trip 2 (310-294759-16).

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 following sample was prepared outside of preparation holding time due to not having the sample : MW-33 (310-294759-12).

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: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-294759-1	MW-06-7R	Water	11/06/24 10:56	11/07/24 16:25
310-294759-2	MW-05-2	Water	11/07/24 10:17	11/07/24 16:25
310-294759-3	MW-19	Water	11/05/24 12:50	11/07/24 16:25
310-294759-4	MW-28	Water	11/07/24 12:45	11/07/24 16:25
310-294759-5	MW-29	Water	11/05/24 10:20	11/07/24 16:25
310-294759-6	MW-39	Water	11/05/24 11:16	11/07/24 16:25
310-294759-7	MW-40	Water	11/05/24 14:27	11/07/24 16:25
310-294759-8	MW-41	Water	11/05/24 15:17	11/07/24 16:25
310-294759-9	MW-90-11	Water	11/06/24 09:18	11/07/24 16:25
310-294759-10	MW-20	Water	11/05/24 12:08	11/07/24 16:25
310-294759-11	MW-24	Water	11/05/24 11:52	11/07/24 16:25
310-294759-12	MW-33	Water	11/06/24 08:11	11/07/24 16:25
310-294759-13	MW-90-18	Water	11/05/24 11:42	11/07/24 16:25
310-294759-14	MW-D	Water	11/05/24 12:50	11/07/24 16:25
310-294759-15	Trip 1	Water	11/05/24 00:00	11/07/24 16:25
310-294759-16	Trip 2	Water	11/05/24 00:00	11/07/24 16:25
310-294759-17	Trip 3	Water	11/05/24 00:00	11/07/24 16:25

Detection Summary

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-06-7R — Lab Sample ID: 310-294759-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00200		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.116		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	7.60		3.00	2.22	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-05-2 — Lab Sample ID: 310-294759-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.137		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00263	J	0.00500	0.00120	mg/L	1		6020B	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 310-294759-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000673	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.179		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000232		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000669		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00306	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00111		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00374	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00157	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	63.0		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-28 — Lab Sample ID: 310-294759-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.558	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	3.44		1.00	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.000597	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.153		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000438	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00195	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000564		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00309	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00115	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Zinc	0.0118	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	270		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-29 — Lab Sample ID: 310-294759-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.175		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00293	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.000291	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00186	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000361	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Vanadium	0.00208	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	15.4		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-39 — Lab Sample ID: 310-294759-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.332		0.00200	0.000660	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-39 (Continued) — Lab Sample ID: 310-294759-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.000723		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000461	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Zinc	0.0214		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	28.6		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-40 — Lab Sample ID: 310-294759-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0171		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00336	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Nickel	0.00272	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	15.9		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-41 — Lab Sample ID: 310-294759-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00248		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.177		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000476	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000276	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Total Suspended Solids	13.4		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-90-11 — Lab Sample ID: 310-294759-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.254	J	0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	9.96		1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	1.58	J	4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.44		1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.09		1.00	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.0295		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.477		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00426		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00465	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	43.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 310-294759-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.26	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	1.01		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	0.577	J	1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	4.73		4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.71		1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	10.2		1.00	0.220	ug/L	1		8260D	Total/NA
Vinyl chloride	0.695	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0247		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	2.63		0.00800	0.00264	mg/L	4		6020B	Total/NA
Cobalt	0.0316		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0405		0.00500	0.00210	mg/L	1		6020B	Total/NA
Zinc	0.0102	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	32.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-24 — Lab Sample ID: 310-294759-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.07		0.500	0.220	ug/L	1		8260D	Total/NA
Chloroethane	3.20	J	4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.385	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.702	J	1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	0.402	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	0.242	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.00557		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.515		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00505		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00658		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	57.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-33 — Lab Sample ID: 310-294759-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00715		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.177		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000295		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00634		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00939		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00264	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.50		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-90-18 — Lab Sample ID: 310-294759-13

No Detections.

Client Sample ID: MW-D — Lab Sample ID: 310-294759-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.162		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000142	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000329	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00188	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000548		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00297	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip 1 — Lab Sample ID: 310-294759-15

No Detections.

Client Sample ID: Trip 2 — Lab Sample ID: 310-294759-16

No Detections.

Client Sample ID: Trip 3 — Lab Sample ID: 310-294759-17

No Detections.

This Detection Summary does not include radiochemical test results.

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Job ID: 310-294759-1
Project/Site: Clinton County S. Fall 2024 GW
SDG: Clinton County South Landfill

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-06-7R
Date Collected: 11/06/24 10:56
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 18:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 18:45	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 18:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 18:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 18:45	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 18:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 18:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 18:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 18:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 18:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 18:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 18:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 18:45	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 18:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 18:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 18:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 18:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 18:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 18:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 18:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 18:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 18:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 18:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 18:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 18:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 18:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 18:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 18:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 18:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 18:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 18:45	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 18:45	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 18:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 18:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 18:45	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 18:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 18:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 18:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 18:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 18:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 18:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 18:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 18:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 18:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 18:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 18:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/09/24 18:45*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-06-7R

Date Collected: 11/06/24 10:56
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*73 - 130*		*11/09/24 18:45*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/09/24 18:45*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 17:31	1
Arsenic	**0.00200**		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 17:31	1
Barium	**0.116**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 17:31	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 17:31	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 17:31	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 17:31	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 17:31	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 17:31	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 17:31	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 17:31	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 17:31	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 17:31	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 17:31	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 17:31	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**7.60**		3.00	2.22	mg/L			11/12/24 15:08	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-05-2
Date Collected: 11/07/24 10:17
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 19:07	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 19:07	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 19:07	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 19:07	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 19:07	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 19:07	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 19:07	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 19:07	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 19:07	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 19:07	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 19:07	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 19:07	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 19:07	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 19:07	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 19:07	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 19:07	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 19:07	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 19:07	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 19:07	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 19:07	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 19:07	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 19:07	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 19:07	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 19:07	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 19:07	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 19:07	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 19:07	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 19:07	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 19:07	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 19:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 19:07	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 19:07	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 19:07	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 19:07	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 19:07	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 19:07	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 19:07	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 19:07	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 19:07	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 19:07	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 19:07	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 19:07	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 19:07	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 19:07	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 19:07	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 19:07	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/09/24 19:07*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-05-2
Date Collected: 11/07/24 10:17
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*73 - 130*		*11/09/24 19:07*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/09/24 19:07*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 17:34	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 17:34	1
Barium	**0.137**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 17:34	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 17:34	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 17:34	1
Chromium	**0.00263**	**J**	0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 17:34	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 17:34	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 17:34	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 17:34	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 17:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 17:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 17:34	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 17:34	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 17:34	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			11/11/24 12:45	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-19
Date Collected: 11/05/24 12:50
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 19:29	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 19:29	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 19:29	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 19:29	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 19:29	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 19:29	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 19:29	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 19:29	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 19:29	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 19:29	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 19:29	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 19:29	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 19:29	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 19:29	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 19:29	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 19:29	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 19:29	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 19:29	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 19:29	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 19:29	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 19:29	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 19:29	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 19:29	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 19:29	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 19:29	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 19:29	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 19:29	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 19:29	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 19:29	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 19:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 19:29	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 19:29	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 19:29	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 19:29	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 19:29	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 19:29	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 19:29	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 19:29	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 19:29	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 19:29	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 19:29	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 19:29	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 19:29	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 19:29	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 19:29	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 19:29	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/09/24 19:29*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-19
Date Collected: 11/05/24 12:50
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*73 - 130*		*11/09/24 19:29*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/09/24 19:29*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 17:37	1
Arsenic	**0.000673**	**J**	0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 17:37	1
Barium	**0.179**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 17:37	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 17:37	1
Cadmium	**0.000232**		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 17:37	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 17:37	1
Cobalt	**0.000669**		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 17:37	1
Copper	**0.00306**	**J**	0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 17:37	1
Lead	**0.00111**		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 17:37	1
Nickel	**0.00374**	**J**	0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 17:37	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 17:37	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 17:37	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 17:37	1
Vanadium	**0.00157**	**J**	0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 17:37	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**63.0**		3.75	2.78	mg/L			11/11/24 09:28	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-28
Date Collected: 11/07/24 12:45
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 19:50	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 19:50	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 19:50	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 19:50	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 19:50	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 19:50	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 19:50	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 19:50	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 19:50	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 19:50	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 19:50	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 19:50	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 19:50	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 19:50	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 19:50	1
cis-1,2-Dichloroethene	**0.558**	**J**	1.00	0.210	ug/L			11/09/24 19:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 19:50	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 19:50	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 19:50	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 19:50	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 19:50	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 19:50	1
1,1-Dichloroethane	**3.44**		1.00	0.220	ug/L			11/09/24 19:50	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 19:50	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 19:50	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 19:50	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 19:50	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 19:50	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 19:50	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 19:50	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 19:50	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 19:50	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 19:50	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 19:50	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 19:50	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 19:50	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 19:50	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 19:50	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 19:50	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 19:50	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 19:50	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 19:50	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 19:50	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 19:50	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 19:50	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 19:50	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/09/24 19:50*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-28

Date Collected: 11/07/24 12:45
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*11/09/24 19:50*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/09/24 19:50*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 17:40	1
Arsenic	**0.000597**	**J**	0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 17:40	1
Barium	**0.153**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 17:40	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 17:40	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 17:40	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 17:40	1
Cobalt	**0.000438**	**J**	0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 17:40	1
Copper	**0.00195**	**J**	0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 17:40	1
Lead	**0.000564**		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 17:40	1
Nickel	**0.00309**	**J**	0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 17:40	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 17:40	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 17:40	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 17:40	1
Vanadium	**0.00115**	**J**	0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 17:40	1
Zinc	**0.0118**	**J**	0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**270**		15.0	11.1	mg/L			11/12/24 16:31	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-29
Date Collected: 11/05/24 10:20
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 20:12	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 20:12	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 20:12	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 20:12	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 20:12	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 20:12	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 20:12	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 20:12	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 20:12	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 20:12	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 20:12	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 20:12	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 20:12	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 20:12	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 20:12	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 20:12	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 20:12	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 20:12	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 20:12	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 20:12	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 20:12	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 20:12	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 20:12	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 20:12	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 20:12	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 20:12	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 20:12	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 20:12	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 20:12	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 20:12	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 20:12	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 20:12	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 20:12	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 20:12	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 20:12	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 20:12	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 20:12	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 20:12	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 20:12	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 20:12	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 20:12	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 20:12	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 20:12	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 20:12	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 20:12	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 20:12	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/09/24 20:12*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-29
Date Collected: 11/05/24 10:20
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*73 - 130*		*11/09/24 20:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/09/24 20:12*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 17:51	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 17:51	1
Barium	**0.175**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 17:51	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 17:51	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 17:51	1
Chromium	**0.00293**	**J**	0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 17:51	1
Cobalt	**0.000291**	**J**	0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 17:51	1
Copper	**0.00186**	**J**	0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 17:51	1
Lead	**0.000361**	**J**	0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 17:51	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 17:51	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 17:51	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 17:51	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 17:51	1
Vanadium	**0.00208**	**J**	0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 17:51	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**15.4**		1.88	1.39	mg/L			11/11/24 09:28	1

Client Sample ID: MW-39

Date Collected: 11/05/24 11:16
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 20:34	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 20:34	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 20:34	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 20:34	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 20:34	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 20:34	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 20:34	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 20:34	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 20:34	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 20:34	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 20:34	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 20:34	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 20:34	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 20:34	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 20:34	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 20:34	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 20:34	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 20:34	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 20:34	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 20:34	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 20:34	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 20:34	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 20:34	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 20:34	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 20:34	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 20:34	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 20:34	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 20:34	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 20:34	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 20:34	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 20:34	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 20:34	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 20:34	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 20:34	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 20:34	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 20:34	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 20:34	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 20:34	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 20:34	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 20:34	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 20:34	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 20:34	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 20:34	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 20:34	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 20:34	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 20:34	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/09/24 20:34*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-39
Date Collected: 11/05/24 11:16
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*73 - 130*		*11/09/24 20:34*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/09/24 20:34*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 18:17	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 18:17	1
Barium	**0.332**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 18:17	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 18:17	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 18:17	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 18:17	1
Cobalt	**0.000723**		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 18:17	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 18:17	1
Lead	**0.000461**	**J**	0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 18:17	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 18:17	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 18:17	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 18:17	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 18:17	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 18:17	1
Zinc	**0.0214**		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**28.6**		1.88	1.39	mg/L			11/11/24 09:28	1

Client Sample ID: MW-40
Date Collected: 11/05/24 14:27
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 20:56	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 20:56	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 20:56	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 20:56	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 20:56	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 20:56	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 20:56	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 20:56	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 20:56	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 20:56	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 20:56	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 20:56	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 20:56	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 20:56	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 20:56	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 20:56	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 20:56	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 20:56	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 20:56	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 20:56	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 20:56	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 20:56	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 20:56	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 20:56	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 20:56	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 20:56	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 20:56	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 20:56	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 20:56	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 20:56	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 20:56	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 20:56	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 20:56	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 20:56	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 20:56	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 20:56	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 20:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 20:56	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 20:56	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 20:56	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 20:56	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 20:56	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 20:56	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 20:56	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 20:56	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 20:56	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/09/24 20:56*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-40
Date Collected: 11/05/24 14:27
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*73 - 130*		*11/09/24 20:56*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/09/24 20:56*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 18:20	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 18:20	1
Barium	**0.0171**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 18:20	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 18:20	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 18:20	1
Chromium	**0.00336**	**J**	0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 18:20	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 18:20	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 18:20	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 18:20	1
Nickel	**0.00272**	**J**	0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 18:20	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 18:20	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 18:20	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 18:20	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 18:20	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**15.9**		1.88	1.39	mg/L			11/11/24 09:28	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-41
Date Collected: 11/05/24 15:17
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 21:18	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 21:18	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 21:18	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 21:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 21:18	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 21:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 21:18	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 21:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 21:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 21:18	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 21:18	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 21:18	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 21:18	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 21:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 21:18	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 21:18	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 21:18	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 21:18	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 21:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 21:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 21:18	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 21:18	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 21:18	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 21:18	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 21:18	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 21:18	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 21:18	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 21:18	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 21:18	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 21:18	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 21:18	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 21:18	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 21:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 21:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 21:18	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 21:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 21:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 21:18	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 21:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 21:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 21:18	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 21:18	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 21:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 21:18	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 21:18	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 21:18	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/09/24 21:18*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-41

Date Collected: 11/05/24 15:17
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*73 - 130*		*11/09/24 21:18*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/09/24 21:18*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 18:23	1
Arsenic	**0.00248**		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 18:23	1
Barium	**0.177**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 18:23	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 18:23	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 18:23	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 18:23	1
Cobalt	**0.000476**	**J**	0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 18:23	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 18:23	1
Lead	**0.000276**	**J**	0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 18:23	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 18:23	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 18:23	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 18:23	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 18:23	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 18:23	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**13.4**		1.88	1.39	mg/L			11/11/24 09:28	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-90-11
Date Collected: 11/06/24 09:18
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 21:40	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 21:40	1
Benzene	**0.254**	**J**	0.500	0.220	ug/L			11/09/24 21:40	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 21:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 21:40	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 21:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 21:40	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 21:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 21:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 21:40	1
Chlorobenzene	**9.96**		1.00	0.400	ug/L			11/09/24 21:40	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 21:40	1
Chloroethane	**1.58**	**J**	4.00	0.790	ug/L			11/09/24 21:40	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 21:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 21:40	1
cis-1,2-Dichloroethene	**1.44**		1.00	0.210	ug/L			11/09/24 21:40	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 21:40	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 21:40	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 21:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 21:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 21:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 21:40	1
1,1-Dichloroethane	**1.09**		1.00	0.220	ug/L			11/09/24 21:40	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 21:40	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 21:40	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 21:40	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 21:40	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 21:40	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 21:40	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 21:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 21:40	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 21:40	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 21:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 21:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 21:40	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 21:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 21:40	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 21:40	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 21:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 21:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 21:40	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 21:40	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 21:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 21:40	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 21:40	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 21:40	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/09/24 21:40*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-90-11

Date Collected: 11/06/24 09:18
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-9

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*73 - 130*		*11/09/24 21:40*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/09/24 21:40*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 18:26	1
Arsenic	**0.0295**		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 18:26	1
Barium	**0.477**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 18:26	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 18:26	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 18:26	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 18:26	1
Cobalt	**0.00426**		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 18:26	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 18:26	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 18:26	1
Nickel	**0.00465**	**J**	0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 18:26	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 18:26	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 18:26	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 18:26	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 18:26	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**43.0**		7.50	5.55	mg/L			11/12/24 15:08	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-20
Date Collected: 11/05/24 12:08
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.26**	**J**	10.0	3.10	ug/L			11/09/24 22:01	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 22:01	1
Benzene	**1.01**		0.500	0.220	ug/L			11/09/24 22:01	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 22:01	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 22:01	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 22:01	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 22:01	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 22:01	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 22:01	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 22:01	1
Chlorobenzene	**0.577**	**J**	1.00	0.400	ug/L			11/09/24 22:01	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 22:01	1
Chloroethane	**4.73**		4.00	0.790	ug/L			11/09/24 22:01	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 22:01	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 22:01	1
cis-1,2-Dichloroethene	**3.71**		1.00	0.210	ug/L			11/09/24 22:01	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 22:01	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 22:01	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 22:01	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 22:01	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 22:01	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 22:01	1
1,1-Dichloroethane	**10.2**		1.00	0.220	ug/L			11/09/24 22:01	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 22:01	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 22:01	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 22:01	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 22:01	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 22:01	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 22:01	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 22:01	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 22:01	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 22:01	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 22:01	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 22:01	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 22:01	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 22:01	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 22:01	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 22:01	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 22:01	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 22:01	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 22:01	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 22:01	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 22:01	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 22:01	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 22:01	1
Vinyl chloride	**0.695**	**J**	1.00	0.180	ug/L			11/09/24 22:01	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/09/24 22:01*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-20

Date Collected: 11/05/24 12:08
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-10

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*11/09/24 22:01*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/09/24 22:01*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 18:29	1
Arsenic	**0.0247**		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 18:29	1
Barium	**2.63**		0.00800	0.00264	mg/L		11/14/24 09:30	11/15/24 12:32	4
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 18:29	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 18:29	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 18:29	1
Cobalt	**0.0316**		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 18:29	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 18:29	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 18:29	1
Nickel	**0.0405**		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 18:29	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 18:29	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 18:29	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 18:29	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 18:29	1
Zinc	**0.0102**	**J**	0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**32.0**		15.0	11.1	mg/L			11/11/24 09:28	1

Client Sample ID: MW-24
Date Collected: 11/05/24 11:52
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 22:23	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 22:23	1
Benzene	**2.07**		0.500	0.220	ug/L			11/09/24 22:23	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 22:23	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 22:23	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 22:23	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 22:23	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 22:23	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 22:23	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 22:23	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 22:23	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 22:23	1
Chloroethane	**3.20**	**J**	4.00	0.790	ug/L			11/09/24 22:23	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 22:23	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 22:23	1
cis-1,2-Dichloroethene	**0.385**	**J**	1.00	0.210	ug/L			11/09/24 22:23	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 22:23	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 22:23	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 22:23	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 22:23	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 22:23	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 22:23	1
1,1-Dichloroethane	**0.702**	**J**	1.00	0.220	ug/L			11/09/24 22:23	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 22:23	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 22:23	1
1,2-Dichloropropane	**0.402**	**J**	1.00	0.270	ug/L			11/09/24 22:23	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 22:23	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 22:23	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 22:23	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 22:23	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 22:23	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 22:23	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 22:23	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 22:23	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 22:23	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 22:23	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 22:23	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 22:23	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 22:23	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 22:23	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 22:23	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 22:23	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 22:23	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 22:23	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 22:23	1
Vinyl chloride	**0.242**	**J**	1.00	0.180	ug/L			11/09/24 22:23	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/09/24 22:23*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-24

Date Collected: 11/05/24 11:52
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-11

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*73 - 130*		*11/09/24 22:23*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/09/24 22:23*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 18:32	1
Arsenic	**0.00557**		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 18:32	1
Barium	**0.515**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 18:32	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 18:32	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 18:32	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 18:32	1
Cobalt	**0.00505**		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 18:32	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 18:32	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 18:32	1
Nickel	**0.00658**		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 18:32	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 18:32	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 18:32	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 18:32	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 18:32	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 18:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**57.0**		15.0	11.1	mg/L			11/11/24 09:28	1

Client Sample ID: MW-33
Date Collected: 11/06/24 08:11
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 22:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 22:45	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 22:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 22:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 22:45	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 22:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 22:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 22:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 22:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 22:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 22:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 22:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 22:45	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 22:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 22:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 22:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 22:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 22:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 22:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 22:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 22:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 22:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 22:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 22:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 22:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 22:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 22:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 22:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 22:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 22:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 22:45	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 22:45	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 22:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 22:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 22:45	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 22:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 22:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 22:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 22:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 22:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 22:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 22:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 22:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 22:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 22:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 22:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/09/24 22:45*	*1*

Client Sample ID: MW-33

Date Collected: 11/06/24 08:11
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-12

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*73 - 130*		*11/09/24 22:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/09/24 22:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	<10.0	H	10.0	0.700	ug/L		11/19/24 09:50	11/19/24 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*53*		*25 - 110*	*11/19/24 09:50*	*11/19/24 19:06*	*1*
Phenol-d5 (Surr)	*44*		*21 - 110*	*11/19/24 09:50*	*11/19/24 19:06*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*27 - 136*	*11/19/24 09:50*	*11/19/24 19:06*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.587		0.587	0.245	ug/L		11/13/24 07:23	11/14/24 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*98*		*34 - 142*	*11/13/24 07:23*	*11/14/24 07:26*	*1*
DCAA	*79*		*34 - 142*	*11/13/24 07:23*	*11/14/24 07:26*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 18:34	1
Arsenic	**0.00715**		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 18:34	1
Barium	**0.177**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 18:34	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 18:34	1
Cadmium	**0.000295**		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 18:34	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 18:34	1
Cobalt	**0.00634**		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 18:34	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 18:34	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 18:34	1
Nickel	**0.00939**		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 18:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 18:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 18:34	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 18:34	1
Vanadium	**0.00264**	**J**	0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 18:34	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**9.50**		3.75	2.78	mg/L			11/11/24 09:32	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-90-18
Date Collected: 11/05/24 11:42
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/12/24 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*11/12/24 15:14*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/12/24 15:14*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/12/24 15:14*	*1*

Client Sample ID: MW-D
Date Collected: 11/05/24 12:50
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 23:07	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 23:07	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 23:07	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 23:07	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 23:07	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 23:07	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 23:07	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 23:07	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 23:07	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 23:07	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 23:07	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 23:07	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 23:07	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 23:07	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 23:07	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 23:07	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 23:07	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 23:07	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 23:07	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 23:07	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 23:07	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 23:07	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 23:07	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 23:07	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 23:07	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 23:07	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 23:07	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 23:07	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 23:07	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 23:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 23:07	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 23:07	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 23:07	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 23:07	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 23:07	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 23:07	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 23:07	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 23:07	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 23:07	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 23:07	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 23:07	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 23:07	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 23:07	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 23:07	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 23:07	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 23:07	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/09/24 23:07*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-D

Date Collected: 11/05/24 12:50
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-14

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*73 - 130*		*11/09/24 23:07*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/09/24 23:07*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 18:49	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 18:49	1
Barium	**0.162**		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 18:49	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 18:49	1
Cadmium	**0.000142**	**J**	0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 18:49	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 18:49	1
Cobalt	**0.000329**	**J**	0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 18:49	1
Copper	**0.00188**	**J**	0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 18:49	1
Lead	**0.000548**		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 18:49	1
Nickel	**0.00297**	**J**	0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 18:49	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 18:49	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 18:49	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 18:49	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 18:49	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**9.50**		1.88	1.39	mg/L			11/11/24 09:28	1

Client Sample ID: Trip 1
Date Collected: 11/05/24 00:00
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 16:34	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 16:34	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 16:34	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 16:34	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 16:34	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 16:34	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 16:34	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 16:34	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 16:34	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 16:34	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 16:34	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 16:34	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 16:34	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 16:34	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 16:34	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 16:34	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 16:34	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 16:34	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 16:34	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 16:34	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 16:34	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 16:34	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 16:34	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 16:34	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 16:34	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 16:34	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 16:34	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 16:34	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 16:34	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 16:34	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 16:34	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 16:34	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 16:34	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 16:34	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 16:34	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 16:34	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 16:34	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 16:34	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 16:34	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 16:34	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 16:34	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 16:34	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 16:34	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 16:34	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 16:34	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 16:34	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/09/24 16:34*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: Trip 1
Date Collected: 11/05/24 00:00
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	114		73 - 130		11/09/24 16:34	1
Toluene-d8 (Surr)	95		80 - 120		11/09/24 16:34	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: Trip 2
Date Collected: 11/05/24 00:00
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 16:56	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 16:56	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 16:56	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 16:56	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 16:56	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 16:56	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 16:56	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 16:56	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 16:56	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 16:56	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 16:56	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 16:56	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 16:56	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 16:56	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 16:56	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 16:56	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 16:56	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 16:56	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 16:56	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 16:56	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 16:56	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 16:56	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 16:56	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 16:56	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 16:56	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 16:56	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 16:56	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 16:56	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 16:56	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 16:56	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 16:56	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 16:56	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 16:56	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 16:56	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 16:56	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 16:56	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 16:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 16:56	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 16:56	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 16:56	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 16:56	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 16:56	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 16:56	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 16:56	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 16:56	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 16:56	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/09/24 16:56*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: Trip 2
Date Collected: 11/05/24 00:00
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		73 - 130		11/09/24 16:56	1
Toluene-d8 (Surr)	95		80 - 120		11/09/24 16:56	1

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: Trip 3
Date Collected: 11/05/24 00:00
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 17:18	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 17:18	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 17:18	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 17:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 17:18	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 17:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 17:18	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 17:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 17:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 17:18	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 17:18	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 17:18	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 17:18	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 17:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 17:18	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 17:18	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 17:18	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 17:18	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 17:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 17:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 17:18	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 17:18	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 17:18	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 17:18	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 17:18	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 17:18	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 17:18	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 17:18	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 17:18	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 17:18	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 17:18	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 17:18	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 17:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 17:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 17:18	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 17:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 17:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 17:18	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 17:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 17:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 17:18	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 17:18	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 17:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 17:18	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 17:18	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 17:18	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/09/24 17:18*	*1*

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: Trip 3
Date Collected: 11/05/24 00:00
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		73 - 130		11/09/24 17:18	1
Toluene-d8 (Surr)	95		80 - 120		11/09/24 17:18	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
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

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: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-294759-1	MW-06-7R	102	110	94
310-294759-2	MW-05-2	101	115	95
310-294759-3	MW-19	100	114	95
310-294759-4	MW-28	102	111	94
310-294759-5	MW-29	103	112	93
310-294759-6	MW-39	103	115	95
310-294759-7	MW-40	103	112	94
310-294759-8	MW-41	101	113	96
310-294759-9	MW-90-11	101	115	93
310-294759-10	MW-20	103	118	94
310-294759-11	MW-24	102	115	95
310-294759-12	MW-33	104	114	97
310-294759-13	MW-90-18	102	105	94
310-294759-14	MW-D	103	115	96
310-294759-15	Trip 1	102	114	95
310-294759-16	Trip 2	104	109	95
310-294759-17	Trip 3	99	111	95
LCS 310-439096/6	Lab Control Sample	100	95	99
LCS 310-439096/7	Lab Control Sample	102	109	97
LCS 310-439421/7	Lab Control Sample	101	107	94
MB 310-439096/5	Method Blank	103	106	97
MB 310-439421/5	Method Blank	102	106	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(25-110)	(21-110)	(27-136)
310-294759-12	MW-33	53	44	72
LCS 310-440192/2-A	Lab Control Sample	81	69	109
LCSD 310-440192/3-A	Lab Control Sample Dup	62	50	95
MB 310-440192/1-A	Method Blank	71	63	95

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(34-142)	(34-142)
310-294759-12	MW-33	98	79

Surrogate Summary

Client: SCS Engineers
Job ID: 310-294759-1
Project/Site: Clinton County S. Fall 2024 GW
SDG: Clinton County South Landfill

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCPAA1 (34-142)	DCPAA2 (34-142)								
LCS 410-574423/2-A	Lab Control Sample	100	80								
MB 410-574423/1-A	Method Blank	102	82								

Surrogate Legend

DCPAA = DCAA

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-439096/5
Matrix: Water
Analysis Batch: 439096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/09/24 15:07	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/09/24 15:07	1
Benzene	<0.500		0.500	0.220	ug/L			11/09/24 15:07	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/09/24 15:07	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/09/24 15:07	1
Bromoform	<5.00		5.00	0.780	ug/L			11/09/24 15:07	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/09/24 15:07	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/09/24 15:07	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/09/24 15:07	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/09/24 15:07	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/09/24 15:07	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/09/24 15:07	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/09/24 15:07	1
Chloroform	<3.00		3.00	1.30	ug/L			11/09/24 15:07	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/09/24 15:07	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/09/24 15:07	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/09/24 15:07	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/09/24 15:07	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/09/24 15:07	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/09/24 15:07	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/09/24 15:07	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/09/24 15:07	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/09/24 15:07	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/09/24 15:07	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/09/24 15:07	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/09/24 15:07	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/09/24 15:07	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/09/24 15:07	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/09/24 15:07	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/09/24 15:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/09/24 15:07	1
Styrene	<1.00		1.00	0.370	ug/L			11/09/24 15:07	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/09/24 15:07	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/09/24 15:07	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/09/24 15:07	1
Toluene	<1.00		1.00	0.430	ug/L			11/09/24 15:07	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/09/24 15:07	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/09/24 15:07	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/09/24 15:07	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/09/24 15:07	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/09/24 15:07	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/09/24 15:07	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/09/24 15:07	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/09/24 15:07	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/09/24 15:07	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/09/24 15:07	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/09/24 15:07	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-439096/5
Matrix: Water
Analysis Batch: 439096

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/09/24 15:07*	*1*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*11/09/24 15:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/09/24 15:07*	*1*

Lab Sample ID: LCS 310-439096/6
Matrix: Water
Analysis Batch: 439096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	47.36		ug/L		118	50 - 150
Acrylonitrile	200	239.5		ug/L		120	50 - 150
Benzene	20.0	21.77		ug/L		109	72 - 124
Bromochloromethane	20.0	21.95		ug/L		110	73 - 130
Bromodichloromethane	20.0	20.59		ug/L		103	74 - 122
Bromoform	20.0	20.09		ug/L		100	61 - 122
2-Butanone (MEK)	40.0	43.35		ug/L		108	50 - 150
Carbon disulfide	20.0	19.77		ug/L		99	59 - 135
Carbon tetrachloride	20.0	21.55		ug/L		108	67 - 132
Chlorobenzene	20.0	21.17		ug/L		106	76 - 120
Chlorodibromomethane	20.0	20.96		ug/L		105	71 - 121
Chloroform	20.0	21.22		ug/L		106	72 - 125
cis-1,2-Dichloroethene	20.0	20.90		ug/L		105	74 - 123
cis-1,3-Dichloropropene	20.0	22.10		ug/L		110	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	22.99		ug/L		115	50 - 150
1,2-Dibromoethane (EDB)	20.0	23.16		ug/L		116	75 - 125
Dibromomethane	20.0	21.75		ug/L		109	74 - 125
1,2-Dichlorobenzene	20.0	21.50		ug/L		108	74 - 120
1,4-Dichlorobenzene	20.0	21.03		ug/L		105	72 - 120
1,1-Dichloroethane	20.0	22.02		ug/L		110	70 - 127
1,2-Dichloroethane	20.0	21.53		ug/L		108	71 - 125
1,1-Dichloroethene	20.0	21.08		ug/L		105	63 - 132
1,2-Dichloropropane	20.0	23.20		ug/L		116	73 - 124
Ethylbenzene	20.0	21.81		ug/L		109	74 - 122
2-Hexanone	40.0	52.13		ug/L		130	60 - 140
Iodomethane	20.0	17.63		ug/L		88	10 - 150
Methylene Chloride	20.0	22.27		ug/L		111	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	51.01		ug/L		128	60 - 139
Styrene	20.0	21.13		ug/L		106	74 - 121
1,1,1,2-Tetrachloroethane	20.0	21.62		ug/L		108	71 - 120
1,1,2,2-Tetrachloroethane	20.0	22.75		ug/L		114	68 - 124
Tetrachloroethene	20.0	21.88		ug/L		109	71 - 130
Toluene	20.0	21.99		ug/L		110	74 - 123
trans-1,4-Dichloro-2-butene	20.0	19.21		ug/L		96	50 - 150
trans-1,2-Dichloroethene	20.0	20.86		ug/L		104	70 - 126
trans-1,3-Dichloropropene	20.0	22.66		ug/L		113	69 - 123
1,1,1-Trichloroethane	20.0	22.69		ug/L		113	73 - 129
1,1,2-Trichloroethane	20.0	23.55		ug/L		118	73 - 123
Trichloroethene	20.0	22.27		ug/L		111	72 - 126

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-439096/6
Matrix: Water
Analysis Batch: 439096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	23.57		ug/L		118	65 - 127
Vinyl acetate	40.0	37.40		ug/L		93	50 - 150
Xylenes, Total	40.0	43.35		ug/L		108	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*73 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCS 310-439096/7
Matrix: Water
Analysis Batch: 439096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	15.18		ug/L		76	23 - 150
Chloroethane	20.0	17.90		ug/L		89	54 - 136
Chloromethane	20.0	17.59		ug/L		88	38 - 150
Trichlorofluoromethane	20.0	19.70		ug/L		99	54 - 149
Vinyl chloride	20.0	17.96		ug/L		90	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 310-439421/5
Matrix: Water
Analysis Batch: 439421

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/12/24 12:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/12/24 12:58*	*1*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*11/12/24 12:58*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/12/24 12:58*	*1*

Lab Sample ID: LCS 310-439421/7
Matrix: Water
Analysis Batch: 439421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	17.26		ug/L		86	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*73 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-439421/7
Matrix: Water
Analysis Batch: 439421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	94		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-440192/1-A
Matrix: Water
Analysis Batch: 440211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	<10.0		10.0	0.700	ug/L		11/19/24 09:50	11/19/24 14:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	71		25 - 110	11/19/24 09:50	11/19/24 14:18	1
Phenol-d5 (Surr)	63		21 - 110	11/19/24 09:50	11/19/24 14:18	1
2,4,6-Tribromophenol (Surr)	95		27 - 136	11/19/24 09:50	11/19/24 14:18	1

Lab Sample ID: LCS 310-440192/2-A
Matrix: Water
Analysis Batch: 440211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440192

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylphenol, 3 & 4			100	77.78		ug/L		78	46 - 117		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	81		25 - 110
Phenol-d5 (Surr)	69		21 - 110
2,4,6-Tribromophenol (Surr)	109		27 - 136

Lab Sample ID: LCSD 310-440192/3-A
Matrix: Water
Analysis Batch: 440211

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 440192

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylphenol, 3 & 4			100	83.08		ug/L		83	46 - 117	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	62		25 - 110
Phenol-d5 (Surr)	50		21 - 110
2,4,6-Tribromophenol (Surr)	95		27 - 136

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-574423/1-A
Matrix: Water
Analysis Batch: 574883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.600		0.600	0.250	ug/L		11/13/24 07:23	11/14/24 05:04	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 410-574423/1-A
Matrix: Water
Analysis Batch: 574883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574423

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	102		34 - 142	11/13/24 07:23	11/14/24 05:04	1
DCAA	82		34 - 142	11/13/24 07:23	11/14/24 05:04	1

Lab Sample ID: LCS 410-574423/2-A
Matrix: Water
Analysis Batch: 574883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574423

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			2.50	2.258		ug/L		90	53 - 159		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCAA	100		34 - 142
DCAA	80		34 - 142

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-439593/1-A
Matrix: Water
Analysis Batch: 439828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 16:05	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 16:05	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 16:05	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 16:05	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 16:05	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 16:05	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 16:05	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 16:05	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 16:05	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 16:05	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 16:05	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 16:05	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 16:05	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 16:05	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 16:05	1

Lab Sample ID: LCS 310-439593/2-A
Matrix: Water
Analysis Batch: 439828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439593

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony			0.200	0.2018		mg/L		101	80 - 120		
Arsenic			0.200	0.2031		mg/L		102	80 - 120		
Barium			0.100	0.1080		mg/L		108	80 - 120		
Beryllium			0.100	0.1023		mg/L		102	80 - 120		
Cadmium			0.100	0.1013		mg/L		101	80 - 120		
Chromium			0.100	0.1039		mg/L		104	80 - 120		
Cobalt			0.100	0.1043		mg/L		104	80 - 120		

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-439593/2-A
Matrix: Water
Analysis Batch: 439828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.200	0.2053		mg/L		103	80 - 120
Lead	0.200	0.2012		mg/L		101	80 - 120
Nickel	0.200	0.2061		mg/L		103	80 - 120
Selenium	0.400	0.4068		mg/L		102	80 - 120
Silver	0.100	0.1182		mg/L		118	80 - 120
Thallium	0.100	0.1159		mg/L		116	80 - 120
Vanadium	0.100	0.1028		mg/L		103	80 - 120
Zinc	0.200	0.1922		mg/L		96	80 - 120

Lab Sample ID: MB 310-439594/1-A
Matrix: Water
Analysis Batch: 439828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/14/24 09:30	11/14/24 17:45	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/14/24 09:30	11/14/24 17:45	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/14/24 09:30	11/14/24 17:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/14/24 09:30	11/14/24 17:45	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/14/24 09:30	11/14/24 17:45	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/14/24 09:30	11/14/24 17:45	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/14/24 09:30	11/14/24 17:45	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/14/24 09:30	11/14/24 17:45	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/14/24 09:30	11/14/24 17:45	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/14/24 09:30	11/14/24 17:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/14/24 09:30	11/14/24 17:45	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/14/24 09:30	11/14/24 17:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/14/24 09:30	11/14/24 17:45	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/14/24 09:30	11/14/24 17:45	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/14/24 09:30	11/14/24 17:45	1

Lab Sample ID: LCS 310-439594/2-A
Matrix: Water
Analysis Batch: 439828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.1941		mg/L		97	80 - 120
Arsenic	0.200	0.1983		mg/L		99	80 - 120
Barium	0.100	0.1068		mg/L		107	80 - 120
Beryllium	0.100	0.09481		mg/L		95	80 - 120
Cadmium	0.100	0.09608		mg/L		96	80 - 120
Chromium	0.100	0.1020		mg/L		102	80 - 120
Cobalt	0.100	0.1028		mg/L		103	80 - 120
Copper	0.200	0.2013		mg/L		101	80 - 120
Lead	0.200	0.1961		mg/L		98	80 - 120
Nickel	0.200	0.2023		mg/L		101	80 - 120
Selenium	0.400	0.3954		mg/L		99	80 - 120
Silver	0.100	0.1142		mg/L		114	80 - 120
Thallium	0.100	0.1116		mg/L		112	80 - 120
Vanadium	0.100	0.1003		mg/L		100	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-439594/2-A
Matrix: Water
Analysis Batch: 439828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			0.200	0.1864		mg/L		93	80 - 120		

Lab Sample ID: 310-294759-5 MS
Matrix: Water
Analysis Batch: 439828

Client Sample ID: MW-29
Prep Type: Total/NA
Prep Batch: 439594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	<0.00200		0.200	0.2079		mg/L		104	75 - 125		
Arsenic	<0.00200		0.200	0.2030		mg/L		101	75 - 125		
Barium	0.175		0.100	0.2827		mg/L		107	75 - 125		
Beryllium	<0.00100		0.100	0.09825		mg/L		98	75 - 125		
Cadmium	<0.000200		0.100	0.1024		mg/L		102	75 - 125		
Chromium	0.00293	J	0.100	0.1043		mg/L		101	75 - 125		
Cobalt	0.000291	J	0.100	0.1009		mg/L		101	75 - 125		
Copper	0.00186	J	0.200	0.1962		mg/L		97	75 - 125		
Lead	0.000361	J	0.200	0.2107		mg/L		105	75 - 125		
Nickel	<0.00500		0.200	0.1968		mg/L		98	75 - 125		
Selenium	<0.00500		0.400	0.4106		mg/L		103	75 - 125		
Silver	<0.00100		0.100	0.1128		mg/L		113	75 - 125		
Thallium	<0.00100		0.100	0.1109		mg/L		111	75 - 125		
Vanadium	0.00208	J	0.100	0.1051		mg/L		103	75 - 125		
Zinc	<0.0200		0.200	0.1949		mg/L		97	75 - 125		

Lab Sample ID: 310-294759-5 MSD
Matrix: Water
Analysis Batch: 439828

Client Sample ID: MW-29
Prep Type: Total/NA
Prep Batch: 439594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.2089		mg/L		104	75 - 125	0	20
Arsenic	<0.00200		0.200	0.1983		mg/L		99	75 - 125	2	20
Barium	0.175		0.100	0.2760		mg/L		101	75 - 125	2	20
Beryllium	<0.00100		0.100	0.09557		mg/L		96	75 - 125	3	20
Cadmium	<0.000200		0.100	0.1010		mg/L		101	75 - 125	1	20
Chromium	0.00293	J	0.100	0.1014		mg/L		98	75 - 125	3	20
Cobalt	0.000291	J	0.100	0.09799		mg/L		98	75 - 125	3	20
Copper	0.00186	J	0.200	0.1921		mg/L		95	75 - 125	2	20
Lead	0.000361	J	0.200	0.2079		mg/L		104	75 - 125	1	20
Nickel	<0.00500		0.200	0.1915		mg/L		96	75 - 125	3	20
Selenium	<0.00500		0.400	0.3998		mg/L		100	75 - 125	3	20
Silver	<0.00100		0.100	0.1120		mg/L		112	75 - 125	1	20
Thallium	<0.00100		0.100	0.1092		mg/L		109	75 - 125	1	20
Vanadium	0.00208	J	0.100	0.1016		mg/L		100	75 - 125	3	20
Zinc	<0.0200		0.200	0.1941		mg/L		97	75 - 125	0	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-439250/1
Matrix: Water
Analysis Batch: 439250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			11/11/24 09:28	1

Lab Sample ID: LCS 310-439250/2
Matrix: Water
Analysis Batch: 439250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	101.0		mg/L		101	81 - 116

Lab Sample ID: 310-294759-10 DU
Matrix: Water
Analysis Batch: 439250

Client Sample ID: MW-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	32.0		35.00		mg/L		9	35

Lab Sample ID: MB 310-439251/1
Matrix: Water
Analysis Batch: 439251

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			11/11/24 09:32	1

Lab Sample ID: LCS 310-439251/2
Matrix: Water
Analysis Batch: 439251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	98.00		mg/L		98	81 - 116

Lab Sample ID: MB 310-439298/1
Matrix: Water
Analysis Batch: 439298

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			11/11/24 12:45	1

Lab Sample ID: LCS 310-439298/2
Matrix: Water
Analysis Batch: 439298

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	109.0		mg/L		109	81 - 116

Lab Sample ID: MB 310-439455/1
Matrix: Water
Analysis Batch: 439455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			11/12/24 15:08	1

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: LCS 310-439455/2
Matrix: Water
Analysis Batch: 439455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	107.0		mg/L		107	81 - 116		

Lab Sample ID: 310-294759-9 DU
Matrix: Water
Analysis Batch: 439455

Client Sample ID: MW-90-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	43.0			45.50		mg/L				6	35

Lab Sample ID: MB 310-439468/1
Matrix: Water
Analysis Batch: 439468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			11/12/24 16:31	1

Lab Sample ID: LCS 310-439468/2
Matrix: Water
Analysis Batch: 439468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	107.0		mg/L		107	81 - 116		

GC/MS VOA

Analysis Batch: 439096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-1	MW-06-7R	Total/NA	Water	8260D	
310-294759-2	MW-05-2	Total/NA	Water	8260D	
310-294759-3	MW-19	Total/NA	Water	8260D	
310-294759-4	MW-28	Total/NA	Water	8260D	
310-294759-5	MW-29	Total/NA	Water	8260D	
310-294759-6	MW-39	Total/NA	Water	8260D	
310-294759-7	MW-40	Total/NA	Water	8260D	
310-294759-8	MW-41	Total/NA	Water	8260D	
310-294759-9	MW-90-11	Total/NA	Water	8260D	
310-294759-10	MW-20	Total/NA	Water	8260D	
310-294759-11	MW-24	Total/NA	Water	8260D	
310-294759-12	MW-33	Total/NA	Water	8260D	
310-294759-14	MW-D	Total/NA	Water	8260D	
310-294759-15	Trip 1	Total/NA	Water	8260D	
310-294759-16	Trip 2	Total/NA	Water	8260D	
310-294759-17	Trip 3	Total/NA	Water	8260D	
MB 310-439096/5	Method Blank	Total/NA	Water	8260D	
LCS 310-439096/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-439096/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 439421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-13	MW-90-18	Total/NA	Water	8260D	
MB 310-439421/5	Method Blank	Total/NA	Water	8260D	
LCS 310-439421/7	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 440192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-12	MW-33	Total/NA	Water	3510C	
MB 310-440192/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-440192/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-440192/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 440211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-12	MW-33	Total/NA	Water	8270E	440192
MB 310-440192/1-A	Method Blank	Total/NA	Water	8270E	440192
LCS 310-440192/2-A	Lab Control Sample	Total/NA	Water	8270E	440192
LCSD 310-440192/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	440192

GC Semi VOA

Prep Batch: 574423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-12	MW-33	Total/NA	Water	8151A	
MB 410-574423/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-574423/2-A	Lab Control Sample	Total/NA	Water	8151A	

GC Semi VOA

Analysis Batch: 574883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-12	MW-33	Total/NA	Water	8151A	574423
MB 410-574423/1-A	Method Blank	Total/NA	Water	8151A	574423
LCS 410-574423/2-A	Lab Control Sample	Total/NA	Water	8151A	574423

Metals

Prep Batch: 439593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-1	MW-06-7R	Total/NA	Water	3005A	
310-294759-2	MW-05-2	Total/NA	Water	3005A	
310-294759-3	MW-19	Total/NA	Water	3005A	
310-294759-4	MW-28	Total/NA	Water	3005A	
MB 310-439593/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-439593/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 439594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-5	MW-29	Total/NA	Water	3005A	
310-294759-6	MW-39	Total/NA	Water	3005A	
310-294759-7	MW-40	Total/NA	Water	3005A	
310-294759-8	MW-41	Total/NA	Water	3005A	
310-294759-9	MW-90-11	Total/NA	Water	3005A	
310-294759-10	MW-20	Total/NA	Water	3005A	
310-294759-11	MW-24	Total/NA	Water	3005A	
310-294759-12	MW-33	Total/NA	Water	3005A	
310-294759-14	MW-D	Total/NA	Water	3005A	
MB 310-439594/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-439594/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-294759-5 MS	MW-29	Total/NA	Water	3005A	
310-294759-5 MSD	MW-29	Total/NA	Water	3005A	

Analysis Batch: 439828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-1	MW-06-7R	Total/NA	Water	6020B	439593
310-294759-2	MW-05-2	Total/NA	Water	6020B	439593
310-294759-3	MW-19	Total/NA	Water	6020B	439593
310-294759-4	MW-28	Total/NA	Water	6020B	439593
310-294759-5	MW-29	Total/NA	Water	6020B	439594
310-294759-6	MW-39	Total/NA	Water	6020B	439594
310-294759-7	MW-40	Total/NA	Water	6020B	439594
310-294759-8	MW-41	Total/NA	Water	6020B	439594
310-294759-9	MW-90-11	Total/NA	Water	6020B	439594
310-294759-10	MW-20	Total/NA	Water	6020B	439594
310-294759-11	MW-24	Total/NA	Water	6020B	439594
310-294759-12	MW-33	Total/NA	Water	6020B	439594
310-294759-14	MW-D	Total/NA	Water	6020B	439594
MB 310-439593/1-A	Method Blank	Total/NA	Water	6020B	439593
MB 310-439594/1-A	Method Blank	Total/NA	Water	6020B	439594
LCS 310-439593/2-A	Lab Control Sample	Total/NA	Water	6020B	439593
LCS 310-439594/2-A	Lab Control Sample	Total/NA	Water	6020B	439594
310-294759-5 MS	MW-29	Total/NA	Water	6020B	439594

Metals (Continued)

Analysis Batch: 439828 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-5 MSD	MW-29	Total/NA	Water	6020B	439594

Analysis Batch: 439904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-10	MW-20	Total/NA	Water	6020B	439594

General Chemistry

Analysis Batch: 439250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-3	MW-19	Total/NA	Water	I-3765-85	
310-294759-5	MW-29	Total/NA	Water	I-3765-85	
310-294759-6	MW-39	Total/NA	Water	I-3765-85	
310-294759-7	MW-40	Total/NA	Water	I-3765-85	
310-294759-8	MW-41	Total/NA	Water	I-3765-85	
310-294759-10	MW-20	Total/NA	Water	I-3765-85	
310-294759-11	MW-24	Total/NA	Water	I-3765-85	
310-294759-14	MW-D	Total/NA	Water	I-3765-85	
MB 310-439250/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-439250/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-294759-10 DU	MW-20	Total/NA	Water	I-3765-85	

Analysis Batch: 439251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-12	MW-33	Total/NA	Water	I-3765-85	
MB 310-439251/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-439251/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 439298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-2	MW-05-2	Total/NA	Water	I-3765-85	
MB 310-439298/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-439298/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 439455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-1	MW-06-7R	Total/NA	Water	I-3765-85	
310-294759-9	MW-90-11	Total/NA	Water	I-3765-85	
MB 310-439455/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-439455/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-294759-9 DU	MW-90-11	Total/NA	Water	I-3765-85	

Analysis Batch: 439468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-294759-4	MW-28	Total/NA	Water	I-3765-85	
MB 310-439468/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-439468/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-06-7R
Date Collected: 11/06/24 10:56
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 18:45
Total/NA	Prep	3005A			439593	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 17:31
Total/NA	Analysis	I-3765-85		1	439455	HE7K	EET CF	11/12/24 15:08

Client Sample ID: MW-05-2
Date Collected: 11/07/24 10:17
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 19:07
Total/NA	Prep	3005A			439593	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 17:34
Total/NA	Analysis	I-3765-85		1	439298	DGU1	EET CF	11/11/24 12:45

Client Sample ID: MW-19
Date Collected: 11/05/24 12:50
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 19:29
Total/NA	Prep	3005A			439593	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 17:37
Total/NA	Analysis	I-3765-85		1	439250	DGU1	EET CF	11/11/24 09:28

Client Sample ID: MW-28
Date Collected: 11/07/24 12:45
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 19:50
Total/NA	Prep	3005A			439593	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 17:40
Total/NA	Analysis	I-3765-85		1	439468	MDU9	EET CF	11/12/24 16:31

Client Sample ID: MW-29
Date Collected: 11/05/24 10:20
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 20:12
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 17:51
Total/NA	Analysis	I-3765-85		1	439250	DGU1	EET CF	11/11/24 09:28

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-39
Date Collected: 11/05/24 11:16
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 20:34
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 18:17
Total/NA	Analysis	I-3765-85		1	439250	DGU1	EET CF	11/11/24 09:28

Client Sample ID: MW-40
Date Collected: 11/05/24 14:27
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 20:56
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 18:20
Total/NA	Analysis	I-3765-85		1	439250	DGU1	EET CF	11/11/24 09:28

Client Sample ID: MW-41
Date Collected: 11/05/24 15:17
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 21:18
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 18:23
Total/NA	Analysis	I-3765-85		1	439250	DGU1	EET CF	11/11/24 09:28

Client Sample ID: MW-90-11
Date Collected: 11/06/24 09:18
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 21:40
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 18:26
Total/NA	Analysis	I-3765-85		1	439455	HE7K	EET CF	11/12/24 15:08

Client Sample ID: MW-20
Date Collected: 11/05/24 12:08
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 22:01
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 18:29
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		4	439904	A6US	EET CF	11/15/24 12:32

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: MW-20
Date Collected: 11/05/24 12:08
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	I-3765-85		1	439250	DGU1	EET CF	11/11/24 09:28

Client Sample ID: MW-24
Date Collected: 11/05/24 11:52
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 22:23
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 18:32
Total/NA	Analysis	I-3765-85		1	439250	DGU1	EET CF	11/11/24 09:28

Client Sample ID: MW-33
Date Collected: 11/06/24 08:11
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 22:45
Total/NA	Prep	3510C			440192	AYK7	EET CF	11/19/24 09:50
Total/NA	Analysis	8270E		1	440211	L0FS	EET CF	11/19/24 19:06
Total/NA	Prep	8151A			574423	XU9L	ELLE	11/13/24 07:23
Total/NA	Analysis	8151A		1	574883	UAMZ	ELLE	11/14/24 07:26
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 18:34
Total/NA	Analysis	I-3765-85		1	439251	DGU1	EET CF	11/11/24 09:32

Client Sample ID: MW-90-18
Date Collected: 11/05/24 11:42
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439421	FE5V	EET CF	11/12/24 15:14

Client Sample ID: MW-D
Date Collected: 11/05/24 12:50
Date Received: 11/07/24 16:25

Lab Sample ID: 310-294759-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 23:07
Total/NA	Prep	3005A			439594	F5MW	EET CF	11/14/24 09:30
Total/NA	Analysis	6020B		1	439828	A6US	EET CF	11/14/24 18:49
Total/NA	Analysis	I-3765-85		1	439250	DGU1	EET CF	11/11/24 09:28

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

Client Sample ID: Trip 1

Lab Sample ID: 310-294759-15

Date Collected: 11/05/24 00:00
Matrix: Water
Date Received: 11/07/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 16:34

Client Sample ID: Trip 2

Lab Sample ID: 310-294759-16

Date Collected: 11/05/24 00:00
Matrix: Water
Date Received: 11/07/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 16:56

Client Sample ID: Trip 3

Lab Sample ID: 310-294759-17

Date Collected: 11/05/24 00:00
Matrix: Water
Date Received: 11/07/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439096	WSE8	EET CF	11/09/24 17:18

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

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 Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-24
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-25
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24 *
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-294759-1
Project/Site: Clinton County S. Fall 2024 GW
SDG: Clinton County South Landfill

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-25
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: SCS Engineers
Project/Site: Clinton County S. Fall 2024 GW

Job ID: 310-294759-1
SDG: Clinton County South Landfill

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	ELLE
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	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

eurofins | Environment Testing America

310-294759 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received. DATE: 10-7-24 TIME: 1625 | Received By: C

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? ↓

only empty container

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☒ NONE

Thermometer ID: | Correction Factor (°C):

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): | Corrected Temp (°C):

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:	TB	
Uncorrected Temp (°C):	17.0	
Corrected Temp (°C):	17.0	

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

Set of trip blanks in cooler with empty bottles and no ice. Put X on Lids of TB. In South cooler

Document CED-P-SAM-FRM45521
Revision 26
Date 27 Jan 2022

Eurofins Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: LCS

City/State: CITY Des Moines STATE IA Project:

Receipt Information

Date/Time Received: DATE 11-7-24 TIME 1625 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? ↓

MW-28, 41, 39, 20, 90-11, 40

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE

Thermometer ID. D 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): 4.3 Corrected Temp (°C): 4.3

• **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: LCS

City/State: CITY Des Moine 1 STATE IA | Project:

Receipt Information

Date/Time Received: DATE 11-7-24 TIME 1625 | 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? ↓

MW-90-15R, 29, 05-2, 06-7R, D, 24, 19

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: D | 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): 4.4 | Corrected Temp (°C): 4.4

• **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

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Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 11-7-24 | TIME 1625 | 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 2

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? ↓

90-5, 90-13, 03-16, MW 33 from other job

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 2 | 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): 5.6 | Corrected Temp (°C): 5.6

• **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 TestAmerica, Cedar Falls TestAmerica Des Moines SC 2nd **Chain of Custody Record**

eurofins

3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	**Project Manager:**	**Site Contact:**	**Date:**	COC No:
SCS Engineers	Email: smarczewski@scsengineers.com	**Lab Contact:**	**Carrier:**	____ of ____ COCs
Sean Marczewski	Cell: 712-661-9682			Sampler:
1690 All-State Court, Suite 100	**Analysis Turnaround Time**			**For Lab Use Only:**
West Des Moines, IA 50265	☐CALENDAR DAYS ☐WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling:
Project Name: Clinton County S. Fall 2024 GW	☐ 2 weeks			
Site: Clinton County South Landfill	☐ 1 week			Job / SDG No.
P O # 27223133.25	☐ 2 days			
	☐ 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)	Appendix I	Total Suspended Solids	2,4-D, 3/4-Methylphenol	Vinyl Chloride	Trip Blank	Sample Specific Notes:
MW-06-7R	11/6/24	10:56						X	X				
MW-05-2	11/7/24	10:17						X	X				
MW-05-3	"	"						X	X				
MW-05-8R	"	"						X	X				
MW-19	11/5/24	12:50						X	X				
MW-25R	"	"						X	X				
MW-28	11/7/24	12:45						X	X				
MW-29	11/5/24	10:24						X	X				
UD-2	"	"						X	X				
GU-1	"	"						X	X				
MW-39	11/5/24	11:16						X	X				
MW-40	11/5/24	14:27						X	X				
MW-41	11/5/24	15:17						X	X				
MW-42	"	"						X	X				
MW-90-11	11/6/24	9:15						X	X				
MW-20	11/5/24	12:03						X	X				
MW-24	11/5/24	15:52						X	X				
MW-32	"	"						X	X				
MW-33	11/6/24	8:N						X	X	X			
MW-34	"	"									X		
MW-90-18	11/5/24	11:42									X		
MW-D	11/5/24	2:50						X	X				
Trip Blank												X	Please include with rs

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: Please o blanks ers with liners.

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C): Obs'd:_____ Corr'd:_____ Therm ID No. _____		
Relinquished by: Gale Tesch	Company: SCS	Date/Time: 11/7/24 16:00	Received by:	Company:	Date/Time: 11/8/24 1625
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

eurofins | Environment Testing America

310-294759 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Eurofins

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 11·16·24 | TIME 0905 | Received By: CGC

Delivery Type: ☐ UPS ☑ FedEx SAT ☐ 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): 2.1 | Corrected Temp (°C): 2.1

• 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

eurofins

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Miller Samuel	Carrier Tracking No(s): N/A	COC No: 410-3249562 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Samuel.Miller@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 #: 310-294759-1
Address: 3019 Venture Way	Due Date Requested: 11/19/2024			
City: Cedar Falls	TAT Requested (days): N/A			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Clinton County S Fall 2024 GW	Project #: 31002710			
Site: 310-SCS Clinton Co Landfill	SSOW#: N/A			

Analysis Requested

Preservation Codes
N None

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)	8260D/5030B Volatile Appendix 1 Sublist	I_3765_85/ Residue, Non-filterable (TSS)	6020B/3005A_TOT Appendix I or II	8270E/3510C_LVI (MOD) 3/4 Methylphenol	Total Number of containers	Special Instructions/Note.
			Preservation Code:				N	N	N	N		
MW-33 (310-294759-12)	11/6/24	08 11 Central	G	Water			X	X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Lancaster Laboratories Environment Testing 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 Lancaster Laboratories Environment Testing LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Lancaster Laboratories Environment Testing LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Lancaster Laboratories Environment Testing, 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 1448 11/15/24 Time: Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kristi Reams	11/15/24 1448	EUET	CGC	11-16-24 0905	Euro Bns
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.

Ver: 10/10/2024

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: N/A	Lab PM: Miller, Samuel	Carrier Tracking No(s): N/A	COC No: 310-78211.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Samuel.Miller@et.eurofinsus.com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Iowa		Job #: 310-294759-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 11/20/2024			
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Clinton County S. Fall 2024 GW	Project #: 31002710			
Site: 310-SCS Clinton Co Landfill	SSOW#: 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 (MOD) 2,4-D/2,4,5-TP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-33 (310-294759-12)	11/6/24	08:11 Central	G	Water			X	2	

Analysis Requested

Preservation Codes:
-

Other:
N/A

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
	11/8/24 1300				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/9/24 0935	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R5.1 - C5.2

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-294759-1
SDG Number: Clinton County South Landfill

Login Number: 294759
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.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: SCS Engineers

Job Number: 310-294759-1
SDG Number: Clinton County South Landfill

Login Number: 294759
List Number: 2
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 11/09/24 11:12 AM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Appendix B-2

Data Validation Documentation

Completed by: Nathan Ohrt
Sample Date: 4/26-27/2022
Lab Report Date: 6/2/2022
Site Name: Clinton Country Sanitary Landfill - East, South MSWLF unit
Evora Project Number: 22001
Project Type: 1st 2022 HMSP
Lab Report Number: 310-230364

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation		X		MW-24 was collected in a properly preserved vial, but the pH was outside the required criteria; the sample was analyzed within the holding time for unpreserved samples. MW-90-11, MW-24, and MW-33 had insufficient preservation, they were preserved to the appropriate pH by the laboratory.
Condition	X			
Case Narrative	X			MW-21 was diluted due to the nature of the sample matrix; elevated reporting limits were provided. Due to the dilution, the surrogate spike concentration was determined to not provide useful information. MW-20 was diluted due to sample matrix effect on the internal standard.
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD		X		Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate for two preparation batches; the laboratory control samples were performed in duplicate to provide precision data for the batches.
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Sample MW-32 and duplicate sample MW-DS had <50% relative percent difference for analyzed parameters.

Completed by: Semir Omerovic
Sample Date: 5/8/2024
Lab Report Date: 5/21/2024
Site Name: Clinton Country Sanitary Landfill - East, South MSWLF unit
Project Type: 1st 2024 Bedrock
Lab Report Number: 310-280925-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections		X		Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Trip Blank (310-280925-6).
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Sample MW-41 and duplicate sample MW-D2 had <50% relative percent difference for analyzed parameters.

Completed by: Nathan Ohrt
Sample Date: 5/7/2024
Lab Report Date: 5/23/2024
Site Name: Clinton Country Sanitary Landfill - East, South MSWLF unit
Project Type: 1st 2024 HMSP
Lab Report Number: 310-280913-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times		X		Method 9056A_ORGFM_48H: The following samples were received outside of holding time: MW-90-11 (310-280913-4), MW-20 (310-280913-6), MW-24 (310-280913-7), MW-32 (310-280913-9) and MW-33 (310-280913-10). Per email, client directs to proceed with analysis.
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-422067 recovered above the upper control limit for cis-1,3-Dichloropropene (21.9%D) and Methyl isobutyl ketone (MIBK) (21.4%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: (CCV310-422067/3).
LCS/LCSD		X		Method 8270E: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-421270. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Sample MW-19 and duplicate sample MW-D1 had <50% relative percent difference for analyzed parameters, with the exception of arsenic, cadmium, copper, lead, and TSS.

Completed by: Nathan Ohrt
Sample Date: 11/5/2024
Lab Report Date: 11/19/2024
Site Name: Clinton Country Sanitary Landfill - East, South MSWLF unit
Project Type: Fall 2024 GW
Lab Report Number: 310-294759-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times		X		Method 8270E: The following sample was prepared outside of preparation holding time due to not having the sample : MW-33 (310-294759-12).
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections		X		Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Trip 2 (310-294759-16).
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates		X		Sample MW-19 and duplicate sample MW-D had <50% relative percent difference for analyzed parameters, with the exception of arsenic, cobalt, lead, TSS, and Vanadium.

Appendix C-1

Summary of Groundwater Chemistry – Water Table

SCS ENGINEERS

Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Total Metals Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	9/3/2009	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	< 0.006
	7/9/2011	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	< 0.006
	9/14/2011	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.006	N/A	N/A	N/A	< 0.006	< 0.006	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.006	N/A	N/A	N/A	0.00212	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A
	3/4/2014	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	< 0.006	N/A
	10/28/2014	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	9/22/2015	0.00485	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	7/13/2016	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	3/5/2018	< 0.001	N/A	N/A	N/A	0.000309*	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.000442	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.001	N/A	N/A	0.000649*	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	5/18/2021	< 0.002	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	< 0.002	N/A
	4/26/2022	< 0.002	N/A	N/A	N/A	0.000787*	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.002	0.000752*	N/A	< 0.002	< 0.002	N/A	N/A	< 0.002	N/A	N/A
	3/21/2023	< 0.002	N/A	N/A	0.00122*	< 0.002	N/A	< 0.002	< 0.002	< 0.002	N/A
	8/15/2023	< 0.002	< 0.002	N/A	N/A	< 0.002	N/A	N/A	< 0.002	< 0.002	N/A
	8/15/2023	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A	N/A	< 0.002	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.002	< 0.002	N/A	N/A	< 0.002	N/A	< 0.002	< 0.002	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	9/3/2009	0.00902	N/A	N/A	N/A	0.00216	N/A	N/A	N/A	N/A	N/A
	12/16/2009	0.00646	N/A	N/A	N/A	0.00267	N/A	N/A	N/A	N/A	N/A
	3/15/2010	0.00379	N/A	N/A	N/A	0.00211	N/A	N/A	N/A	N/A	N/A
	6/30/2010	0.00785	N/A	N/A	N/A	0.00211	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	0.00234	N/A	N/A	N/A	N/A	N/A
	9/2/2010	0.00215	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	0.00208
	7/9/2011	0.00349	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/14/2011	0.00163	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	0.00235
	9/14/2011	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.001	N/A	N/A	N/A	0.00132	< 0.003	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	4/4/2012	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	0.00435	N/A	N/A	N/A	N/A	N/A
	3/19/2013	0.00218	N/A	N/A	N/A	0.00308	N/A	N/A	N/A	N/A	N/A
	8/22/2013	0.000212	N/A	N/A	N/A	0.0061	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0299	N/A
	3/4/2014	0.00301	N/A	N/A	N/A	0.000216	N/A	0.000468	N/A	0.0352	N/A
	10/28/2014	0.00329	N/A	N/A	N/A	0.000574	N/A	0.000427	< 0.001	N/A	N/A
	4/7/2015	0.00101	N/A	N/A	N/A	0.00145	N/A	N/A	N/A	0.0396	N/A
	9/22/2015	0.0152	N/A	N/A	N/A	< 0.002	N/A	< 0.002	< 0.002	N/A	N/A
	3/29/2016	0.00169*	**0.00572**	**0.00445**	N/A	< 0.002	N/A	< 0.002	< 0.002	N/A	0.000965*
	7/13/2016	**0.00205**	N/A	N/A	N/A	0.00079*	N/A	N/A	N/A	N/A	N/A
	4/4/2017	N/A	0.000818*	< 0.002	N/A	N/A	N/A	0.000743*	0.000587*	N/A	N/A
	4/5/2017	0.000706*	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	9/19/2017	0.000662*	< 0.002	N/A	N/A	< 0.002	N/A	< 0.002	< 0.002	**0.034**	N/A
	3/5/2018	0.000593*	N/A	N/A	N/A	0.00056*	N/A	0.000623*	< 0.002	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	0.000757*	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.0157	N/A	N/A	N/A	< 0.002	N/A	N/A	< 0.002	N/A	N/A
	3/19/2019	0.00151*	N/A	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A	N/A
	8/27/2019	0.00159*	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/3/2020	**0.00201**	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	9/22/2020	**0.00412**	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	**0.0291**	N/A
	5/18/2021	**0.00725**	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A
	9/14/2021	**0.00439**	N/A	N/A	N/A	0.00078*	N/A	N/A	N/A	**0.0212**	N/A
	4/26/2022	**0.00278**	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	9/13/2022	**0.00458**	< 0.002	N/A	< 0.002	< 0.002	N/A	N/A	< 0.002	N/A	N/A
	3/21/2023	**0.00246**	N/A	N/A	0.00105*	< 0.002	N/A	< 0.002	< 0.002	**0.02**	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Total Metals Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Arsenic, mg/L (CAS NO - 7440-38-2)	8/15/2023	**0.00715**	< 0.002	N/A	N/A	0.000886*	N/A	N/A	< 0.002	**0.0193**	N/A
	8/15/2023	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	0.00137*	< 0.002	N/A	< 0.002	0.000671*	N/A	N/A	< 0.002	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	11/5/2024	**0.002**	< 0.002	N/A	N/A	0.000673*	N/A	0.000597*	< 0.002	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
Barium, mg/L (CAS NO - 7440-39-3)	9/3/2009	0.261	N/A	N/A	N/A	0.133	N/A	N/A	N/A	N/A	N/A
	12/16/2009	0.265	N/A	N/A	N/A	0.221	N/A	N/A	N/A	N/A	N/A
	3/15/2010	0.244	N/A	N/A	N/A	0.179	N/A	N/A	N/A	N/A	N/A
	6/30/2010	0.269	N/A	N/A	N/A	0.212	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	0.212	N/A	N/A	N/A	N/A	N/A
	9/2/2010	0.159	N/A	N/A	N/A	0.142	N/A	N/A	N/A	N/A	N/A
	3/8/2011	0.269	N/A	N/A	N/A	0.148	N/A	N/A	N/A	N/A	0.122
	7/9/2011	0.194	N/A	N/A	N/A	0.191	N/A	N/A	N/A	N/A	N/A
	9/14/2011	0.174	N/A	N/A	N/A	0.171	N/A	N/A	N/A	N/A	0.0128
	9/14/2011	N/A	N/A	N/A	N/A	0.164	N/A	N/A	N/A	N/A	N/A
	3/22/2012	0.147	N/A	N/A	N/A	0.188	1.87	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	3.34	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	0.286	N/A	N/A	N/A	N/A	N/A
	3/19/2013	0.185	N/A	N/A	N/A	0.22	N/A	N/A	N/A	N/A	N/A
	8/22/2013	0.403	N/A	N/A	N/A	0.415	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	N/A
	3/4/2014	0.544	N/A	N/A	N/A	0.178	N/A	N/A	N/A	0.224	N/A
	10/28/2014	0.676	N/A	N/A	N/A	0.218	N/A	N/A	N/A	N/A	N/A
	4/7/2015	0.135	N/A	N/A	N/A	0.192	N/A	N/A	N/A	0.301	N/A
	9/22/2015	0.657	N/A	N/A	N/A	**0.186**	N/A	N/A	N/A	N/A	N/A
	3/29/2016	**0.128**	N/A	N/A	N/A	**0.145**	N/A	N/A	N/A	N/A	**0.0529**
	7/13/2016	**0.135**	N/A	N/A	N/A	**0.212**	N/A	N/A	N/A	N/A	N/A
	4/5/2017	**0.0869**	N/A	N/A	N/A	**0.162**	N/A	N/A	N/A	N/A	N/A
	9/19/2017	**0.405**	N/A	N/A	N/A	**0.169**	N/A	N/A	N/A	**0.333**	N/A
	3/5/2018	**0.38**	N/A	N/A	N/A	**0.153**	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	**0.159**	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.517	N/A	N/A	N/A	**0.177**	N/A	N/A	N/A	N/A	N/A
	3/19/2019	**0.131**	N/A	N/A	**0.234**	**0.156**	N/A	N/A	N/A	N/A	N/A
	8/27/2019	**0.12**	N/A	N/A	**0.237**	**0.148**	N/A	N/A	N/A	N/A	N/A
	3/3/2020	**0.127**	N/A	N/A	**0.202**	**0.157**	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	**0.181**	N/A	N/A	N/A	N/A	N/A
	9/22/2020	**0.171**	N/A	N/A	**0.332**	**0.155**	N/A	N/A	N/A	**0.327**	N/A
	5/18/2021	**0.363**	N/A	N/A	**0.234**	**0.183**	N/A	N/A	N/A	N/A	N/A
	9/14/2021	**0.161**	N/A	N/A	N/A	**0.19**	N/A	N/A	N/A	**0.386**	N/A
	4/26/2022	**0.138**	N/A	N/A	N/A	**0.196**	N/A	N/A	N/A	N/A	N/A
	9/13/2022	**0.168**	**0.137**	N/A	**0.183**	**0.175**	N/A	N/A	**0.142**	N/A	N/A
	3/21/2023	**0.111**	N/A	N/A	**0.283**	**0.176**	N/A	**0.106**	**0.13**	**0.455**	N/A
	8/15/2023	**0.206**	**0.128**	N/A	N/A	**0.166**	N/A	N/A	**0.14**	**0.413**	N/A
	8/15/2023	N/A	**0.123**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	**0.104**	**0.13**	N/A	**0.263**	**0.182**	N/A	N/A	**0.143**	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	**0.17**	N/A	N/A	N/A	N/A	N/A
	11/5/2024	**0.116**	**0.137**	N/A	N/A	**0.179**	N/A	**0.153**	**0.175**	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	**0.162**	N/A	N/A	N/A	N/A	N/A
Beryllium, mg/L (CAS NO - 7440-41-7)	9/3/2009	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.001	N/A	N/A	N/A	0.00147	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.001	N/A	N/A	N/A	0.001	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	7/9/2011	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	9/14/2011	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.001	N/A	N/A	N/A	< 0.001	0.00366	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	0.00323	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	0.00196	N/A	N/A	N/A	N/A	N/A
	12/13/2012	N/A	N/A	N/A	N/A	0.0013	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.001	N/A	N/A	N/A	0.00566	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000336	N/A
	3/4/2014	0.00234	N/A	N/A	N/A	0.00134	N/A	N/A	N/A	< 0.001	N/A
	10/28/2014	0.00264	N/A	N/A	N/A	0.00129	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.001	N/A	N/A	N/A	0.0005	N/A	N/A	N/A	< 0.001	N/A
	9/22/2015	0.00615	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	7/13/2016	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	3/5/2018	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.00178	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	5/18/2021	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Total Metals Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Beryllium, mg/L (CAS NO - 7440-41-7)	4/26/2022	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	N/A
	3/21/2023	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A
	8/15/2023	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A
	8/15/2023	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	9/3/2009	0.00191	N/A	N/A	N/A	0.00676	N/A	N/A	N/A	N/A	N/A
	12/16/2009	0.00556	N/A	N/A	N/A	0.00262	N/A	N/A	N/A	N/A	N/A
	3/15/2010	0.00174	N/A	N/A	N/A	0.00188	N/A	N/A	N/A	N/A	N/A
	6/30/2010	0.00174	N/A	N/A	N/A	0.00058	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	0.000584	N/A	N/A	N/A	N/A	N/A
	9/2/2010	0.000891	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.0005	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	7/9/2011	< 0.0005	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.0005	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	9/14/2011	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	3/22/2012	0.000576	N/A	N/A	N/A	< 0.0005	0.00197	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	0.00282	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	0.00186	N/A	N/A	N/A	N/A	N/A
	3/19/2013	0.00136	N/A	N/A	N/A	0.00151	N/A	N/A	N/A	N/A	N/A
	8/22/2013	0.00114	N/A	N/A	N/A	0.00284	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A
	3/4/2014	0.000836	N/A	N/A	N/A	0.0023	N/A	N/A	N/A	< 0.0005	N/A
	10/28/2014	0.0029	N/A	N/A	N/A	0.000953	N/A	N/A	N/A	N/A	N/A
	4/7/2015	0.000195	N/A	N/A	N/A	0.000982	N/A	N/A	N/A	< 0.0005	N/A
	9/22/2015	0.00647	N/A	N/A	N/A	0.000292*	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.0005	N/A	N/A	N/A	0.000159*	N/A	N/A	N/A	N/A	< 0.0005
	7/13/2016	< 0.0005	N/A	N/A	N/A	0.000097*	N/A	N/A	N/A	N/A	N/A
	4/5/2017	0.000183*	N/A	N/A	N/A	0.000228*	N/A	N/A	N/A	N/A	N/A
	9/19/2017	0.000111*	N/A	N/A	N/A	0.000498*	N/A	N/A	N/A	< 0.0005	N/A
	3/5/2018	< 0.0005	N/A	N/A	N/A	0.000191*	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	0.00013*	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.00101	N/A	N/A	N/A	0.000355*	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.0005	N/A	N/A	0.000088*	0.000118*	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.0001	N/A	N/A	0.000054*	**0.000164**	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.0001	N/A	N/A	0.00004*	**0.000183**	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	**0.000203**	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.0001	N/A	N/A	< 0.0001	**0.000221**	N/A	N/A	N/A	< 0.0001	N/A
	5/18/2021	< 0.0001	N/A	N/A	< 0.0001	**0.000126**	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.0001	N/A	N/A	N/A	**0.000279**	N/A	N/A	N/A	< 0.0001	N/A
	4/26/2022	< 0.0001	N/A	N/A	N/A	**0.000199**	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.0001	< 0.0001	N/A	< 0.0001	**0.000152**	N/A	N/A	< 0.0001	N/A	N/A
	3/21/2023	**0.000137**	N/A	N/A	**0.000194**	0.000091*	N/A	< 0.0001	< 0.0001	< 0.0001	N/A
	8/15/2023	< 0.0002	< 0.0002	N/A	N/A	**0.000279**	N/A	N/A	< 0.0002	< 0.0002	N/A
	8/15/2023	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.0002	< 0.0002	N/A	< 0.0002	0.000116*	N/A	N/A	< 0.0002	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.0002	< 0.0002	N/A	N/A	**0.000232**	N/A	< 0.0002	< 0.0002	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	0.000142*	N/A	N/A	N/A	N/A	N/A
Chromium, mg/L (CAS NO - 7440-47-3)	9/3/2009	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	7/9/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	9/14/2011	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.02	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.04	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.02	N/A	N/A	N/A	0.0144	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	3/4/2014	0.00989	N/A	N/A	N/A	0.00216	N/A	N/A	N/A	< 0.02	N/A
	10/28/2014	0.00657	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	< 0.005	N/A
	9/22/2015	0.0162	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	0.000655*
	7/13/2016	< 0.005	N/A	N/A	N/A	0.000378*	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	< 0.005	N/A
	3/5/2018	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.0468	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.005	N/A	N/A	0.00319*	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.005	N/A	N/A	0.00437*	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	N/A	N/A	0.00341*	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.005	N/A	N/A	0.00217*	< 0.005	N/A	N/A	N/A	0.0016*	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Total Metals Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Chromium, mg/L (CAS NO - 7440-47-3)	5/18/2021	< 0.005	N/A	N/A	0.00193*	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.005	N/A	N/A	N/A	0.00175*	N/A	N/A	N/A	< 0.005	N/A
	4/26/2022	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.005	0.00291*	N/A	0.00245*	< 0.005	N/A	N/A	0.00301*	N/A	N/A
	3/21/2023	< 0.005	N/A	N/A	0.00254*	< 0.005	N/A	< 0.005	**0.00571**	< 0.005	N/A
	8/15/2023	< 0.005	0.00206*	N/A	N/A	< 0.005	N/A	N/A	0.00266*	< 0.005	N/A
	8/15/2023	N/A	0.00187*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.005	0.00228*	N/A	0.00293*	< 0.005	N/A	N/A	**0.00682**	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.005	0.00263*	N/A	N/A	< 0.005	N/A	< 0.005	0.00293*	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
Cobalt, mg/L (CAS NO - 7440-48-4)	9/3/2009	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.02	N/A	N/A	N/A	0.00318	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.00155	N/A	N/A	N/A	0.00798	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	0.00758	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.00155	N/A	N/A	N/A	< 0.00155	N/A	N/A	N/A	N/A	N/A
	3/8/2011	0.00156	N/A	N/A	N/A	< 0.00155	N/A	N/A	N/A	N/A	0.00492
	7/9/2011	< 0.00155	N/A	N/A	N/A	0.00435	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.00155	N/A	N/A	N/A	< 0.00155	N/A	N/A	N/A	N/A	< 0.00155
	9/14/2011	N/A	N/A	N/A	N/A	< 0.00155	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.00155	N/A	N/A	N/A	0.00224	0.146	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	0.0462	N/A	N/A	N/A	N/A
	4/4/2012	N/A	< 0.00155	0.00227	N/A	N/A	N/A	N/A	0.0157	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	0.0111	N/A	N/A	N/A	N/A	N/A
	12/13/2012	N/A	N/A	N/A	N/A	0.00874	N/A	N/A	N/A	N/A	N/A
	3/19/2013	0.00205	N/A	N/A	N/A	0.00594	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.00132	N/A	0.0038	N/A	0.033	N/A	< 0.007	0.0451	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00418	N/A
	3/4/2014	0.0123	N/A	N/A	N/A	0.00564	N/A	< 0.007	N/A	0.00295	N/A
	10/28/2014	0.029	N/A	N/A	N/A	0.00803	N/A	< 0.007	0.00735	N/A	N/A
	4/7/2015	0.000393	N/A	N/A	N/A	0.00341	N/A	N/A	N/A	0.0028	N/A
	9/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000128*	N/A	N/A
	9/22/2015	0.0216	N/A	N/A	N/A	0.000352*	N/A	0.000103*	0.000091*	N/A	N/A
	3/29/2016	0.000064*	**0.00713**	**0.00359**	N/A	0.000114*	N/A	0.000109*	0.000196*	N/A	0.000237*
	7/13/2016	0.000078*	N/A	N/A	N/A	0.000201*	N/A	N/A	N/A	N/A	N/A
	4/4/2017	N/A	**0.000962**	0.000128*	N/A	N/A	N/A	0.000343*	0.000155*	N/A	N/A
	4/5/2017	0.000196*	N/A	N/A	N/A	0.000104*	N/A	N/A	N/A	N/A	N/A
	9/19/2017	0.000377*	0.000106*	N/A	N/A	**0.000852**	N/A	0.000322*	0.000312*	**0.00715**	N/A
	3/5/2018	0.000098*	0.000056*	N/A	N/A	0.000108*	N/A	0.000163*	0.000168*	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	0.000099*	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.0233	< 0.0005	N/A	N/A	0.000104*	N/A	N/A	0.000125*	N/A	N/A
	3/19/2019	< 0.0005	< 0.0005	< 0.0005	**0.00155**	< 0.0005	N/A	0.000157*	< 0.0005	N/A	N/A
	8/27/2019	< 0.0005	N/A	N/A	**0.002**	0.000098*	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.0005	N/A	N/A	**0.000833**	0.00023*	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	0.00028*	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.0005	N/A	N/A	0.000437*	0.000099*	N/A	N/A	N/A	**0.00698**	N/A
	5/18/2021	< 0.0005	N/A	N/A	**0.00201**	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.0005	N/A	N/A	N/A	**0.00188**	N/A	N/A	N/A	0.000305*	N/A
	4/26/2022	< 0.0005	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.0005	< 0.0005	N/A	**0.000738**	0.000208*	N/A	N/A	0.000342*	N/A	N/A
	3/21/2023	< 0.0005	N/A	N/A	0.000456*	0.000451*	N/A	< 0.0005	0.000191*	**0.000518**	N/A
	8/15/2023	< 0.0005	0.000201*	N/A	N/A	**0.000557**	N/A	N/A	0.000256*	**0.000544**	N/A
	8/15/2023	N/A	0.000181*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	N/A	N/A	< 0.0005	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.0005	< 0.0005	N/A	N/A	0.000329*	N/A	0.000438*	0.000291*	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	**0.000669**	N/A	N/A	N/A	N/A	N/A
Copper, mg/L (CAS NO - 7440-50-8)	9/3/2009	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.02	N/A	N/A	N/A	0.0293	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.02	N/A	N/A	N/A	0.0213	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	0.0211	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	7/9/2011	< 0.02	N/A	N/A	N/A	0.0327	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	9/14/2011	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.02	N/A	N/A	N/A	< 0.02	0.036	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	0.0945	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	0.0446	N/A	N/A	N/A	N/A	N/A
	12/13/2012	N/A	N/A	N/A	N/A	0.0329	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.02	N/A	N/A	N/A	0.0907	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00292	N/A
	3/4/2014	0.00453	N/A	N/A	N/A	0.0199	N/A	N/A	N/A	< 0.02	N/A
	10/28/2014	0.0158	N/A	N/A	N/A	0.0287	N/A	N/A	N/A	N/A	N/A
	4/7/2015	0.000656	N/A	N/A	N/A	0.0144	N/A	N/A	N/A	< 0.002	N/A
	9/22/2015	0.021	N/A	N/A	N/A	**0.0022**	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.005	N/A	N/A	N/A	0.00188*	N/A	N/A	N/A	N/A	0.00199*
	7/13/2016	< 0.005	N/A	N/A	N/A	0.00127*	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.005	N/A	N/A	N/A	0.00248*	N/A	N/A	N/A	< 0.005	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Total Metals Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Copper, mg/L (CAS NO - 7440-50-8)	3/5/2018	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.052	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.005	N/A	N/A	0.00321*	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.005	N/A	N/A	0.00211*	< 0.005	N/A	N/A	N/A	0.00197*	N/A
	5/18/2021	< 0.005	N/A	N/A	0.00306*	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.005	N/A	N/A	N/A	0.00365*	N/A	N/A	N/A	< 0.005	N/A
	4/26/2022	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.005	< 0.005	N/A	0.00271*	< 0.005	N/A	N/A	< 0.005	N/A	N/A
	3/21/2023	< 0.005	N/A	N/A	< 0.005	0.00203*	N/A	< 0.005	< 0.005	< 0.005	N/A
	8/15/2023	< 0.005	< 0.005	N/A	N/A	0.00188*	N/A	N/A	< 0.005	< 0.005	N/A
	8/15/2023	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.005	< 0.005	N/A	0.00187*	0.0024*	N/A	N/A	< 0.005	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.005	< 0.005	N/A	N/A	0.00188*	N/A	0.00195*	0.00186*	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	0.00306*	N/A	N/A	N/A	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	9/3/2009	< 0.004	N/A	N/A	N/A	0.00487	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.004	N/A	N/A	N/A	0.0204	N/A	N/A	N/A	N/A	N/A
	3/15/2010	0.0063	N/A	N/A	N/A	0.0137	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.004	N/A	N/A	N/A	0.0182	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	0.0169	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.004	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.004	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	< 0.004
	7/9/2011	< 0.004	N/A	N/A	N/A	0.011	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.004	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	< 0.004
	9/14/2011	N/A	N/A	N/A	N/A	0.00489	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.004	N/A	N/A	N/A	0.00537	0.0504	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	0.0475	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	0.0431	N/A	N/A	N/A	N/A	N/A
	12/13/2012	N/A	N/A	N/A	N/A	0.0226	N/A	N/A	N/A	N/A	N/A
	3/19/2013	0.006	N/A	N/A	N/A	0.0132	N/A	N/A	N/A	N/A	N/A
	7/17/2013	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.004	N/A	N/A	N/A	0.0737	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00144	N/A
	3/4/2014	0.00976	N/A	N/A	N/A	0.0218	N/A	N/A	N/A	< 0.004	N/A
	10/28/2014	0.00505	N/A	N/A	N/A	0.026	N/A	N/A	N/A	N/A	N/A
	4/7/2015	0.000641	N/A	N/A	N/A	0.00848	N/A	N/A	N/A	< 0.0005	N/A
	9/22/2015	0.0106	N/A	N/A	N/A	**0.000678**	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.0005	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	**0.000685**
	7/13/2016	< 0.0005	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.0005	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.0005	N/A	N/A	N/A	**0.0015**	N/A	N/A	N/A	0.000491*	N/A
	3/5/2018	**0.0021**	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.031	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.0005	N/A	N/A	**0.0022**	< 0.0005	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.0005	N/A	N/A	**0.00309**	< 0.0005	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.0005	N/A	N/A	**0.00126**	0.00047*	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	0.000402*	N/A	N/A	N/A	N/A	N/A
	9/22/2020	0.000163*	N/A	N/A	0.000465*	< 0.0005	N/A	N/A	N/A	**0.00208**	N/A
	5/18/2021	0.000268*	N/A	N/A	**0.00216**	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.0005	N/A	N/A	N/A	**0.00112**	N/A	N/A	N/A	< 0.0005	N/A
	4/26/2022	< 0.0005	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.0005	< 0.0005	N/A	**0.00103**	< 0.0005	N/A	N/A	< 0.0005	N/A	N/A
	3/21/2023	0.000307*	N/A	N/A	**0.000618**	**0.000714**	N/A	< 0.0005	< 0.0005	< 0.0005	N/A
	8/15/2023	< 0.0005	< 0.0005	N/A	N/A	**0.000986**	N/A	N/A	< 0.0005	< 0.0005	N/A
	8/15/2023	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.0005	< 0.0005	N/A	0.000336*	**0.000576**	N/A	N/A	< 0.0005	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	0.000325*	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.0005	< 0.0005	N/A	N/A	**0.000548**	N/A	**0.000564**	0.000361*	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	**0.00111**	N/A	N/A	N/A	N/A	N/A
Mercury, mg/L (CAS NO - 7439-97-6)	8/22/2013	N/A	N/A	N/A	N/A	0.0000299	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
Nickel, mg/L (CAS NO - 7440-02-0)	9/3/2009	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	< 0.05
	7/9/2011	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	< 0.05
	9/14/2011	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.05	N/A	N/A	N/A	< 0.05	< 0.1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.05	N/A	N/A	N/A	0.0803	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00649	N/A
	3/4/2014	0.0206	N/A	N/A	N/A	0.0144	N/A	N/A	N/A	0.00625	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Total Metals Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Nickel, mg/L (CAS NO - 7440-02-0)	10/28/2014	0.0591	N/A	N/A	N/A	0.0198	N/A	N/A	N/A	N/A	N/A
	4/7/2015	0.000956	N/A	N/A	N/A	0.0145	N/A	N/A	N/A	0.00612	N/A
	9/22/2015	0.124	N/A	N/A	N/A	0.00322*	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.005	N/A	N/A	N/A	**0.00608**	N/A	N/A	N/A	N/A	< 0.005
	7/13/2016	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.005	N/A	N/A	N/A	**0.00647**	N/A	N/A	N/A	N/A	N/A
	9/19/2017	0.00268*	N/A	N/A	N/A	**0.00918**	N/A	N/A	N/A	**0.00813**	N/A
	3/5/2018	< 0.005	N/A	N/A	N/A	0.00295*	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	0.00305*	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.0509	N/A	N/A	N/A	**0.00845**	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.005	N/A	N/A	**0.00568**	**0.00529**	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.005	N/A	N/A	**0.00786**	**0.00715**	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	N/A	N/A	0.00277*	**0.0084**	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	**0.00632**	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.005	N/A	N/A	**0.00798**	**0.0114**	N/A	N/A	N/A	**0.011**	N/A
	5/18/2021	< 0.005	N/A	N/A	**0.00736**	**0.00527**	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.005	N/A	N/A	N/A	**0.00908**	N/A	N/A	N/A	0.00286*	N/A
	4/26/2022	< 0.005	N/A	N/A	N/A	**0.00804**	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.005	< 0.005	N/A	0.00284*	**0.00595**	N/A	N/A	< 0.005	N/A	N/A
	3/21/2023	< 0.005	N/A	N/A	**0.00508**	0.0036*	N/A	< 0.005	< 0.005	0.00478*	N/A
	8/15/2023	< 0.005	< 0.005	N/A	N/A	0.0019*	N/A	N/A	< 0.005	0.00244*	N/A
	8/15/2023	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.005	< 0.005	N/A	0.00496*	< 0.005	N/A	N/A	< 0.005	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.005	< 0.005	N/A	N/A	0.00297*	N/A	0.00309*	< 0.005	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	0.00374*	N/A	N/A	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	9/3/2009	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	7/9/2011	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	9/14/2011	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.005	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00309	N/A
	3/4/2014	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	< 0.005	N/A
	10/28/2014	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	< 0.005	N/A
	9/22/2015	0.0102	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	7/13/2016	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	< 0.005	N/A
	3/5/2018	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.00198	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.005	N/A	N/A	0.00116*	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	N/A
	5/18/2021	< 0.005	N/A	N/A	< 0.005	0.000999*	N/A	N/A	N/A	N/A	N/A
	9/14/2021	0.0015*	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	< 0.005	N/A
	4/26/2022	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.005	0.00292*	N/A	< 0.005	0.00174*	N/A	N/A	< 0.005	N/A	N/A
	3/21/2023	0.00161*	N/A	N/A	0.00225*	< 0.005	N/A	< 0.005	< 0.005	< 0.005	N/A
	8/15/2023	< 0.005	< 0.005	N/A	N/A	0.0026*	N/A	N/A	< 0.005	< 0.005	N/A
	8/15/2023	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.005	0.0019*	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A	< 0.005	< 0.005	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
Silver, mg/L (CAS NO - 7440-22-4)	9/3/2009	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	7/9/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	9/14/2011	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.02	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.04	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	8/22/2013	0.00786	N/A	N/A	N/A	0.00649	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Total Metals Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Silver, mg/L (CAS NO - 7440-22-4)	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	3/4/2014	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	< 0.02	N/A
	10/28/2014	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	9/22/2015	0.00429	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	7/13/2016	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	0.000206*	N/A
	3/5/2018	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	0.000255*	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	5/18/2021	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	4/26/2022	0.000809*	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.001	**0.00119**	N/A	< 0.001	**0.00128**	N/A	N/A	< 0.001	N/A	N/A
	3/21/2023	**0.00138**	N/A	N/A	**0.00139**	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A
	8/15/2023	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A
	8/15/2023	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	9/3/2009	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	7/9/2011	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	9/14/2011	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.002	N/A	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	3/4/2014	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	< 0.002	N/A
	10/28/2014	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.001	N/A	N/A	N/A	0.000083	N/A	N/A	N/A	< 0.001	N/A
	9/22/2015	0.00449	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.001	N/A	N/A	N/A	0.000027*	N/A	N/A	N/A	N/A	< 0.001
	7/13/2016	< 0.001	N/A	N/A	N/A	0.00004*	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	3/5/2018	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	0.000067*	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.000615	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	5/18/2021	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/14/2021	0.000853*	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	4/26/2022	0.000265*	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.001	0.000427*	N/A	< 0.001	0.000414*	N/A	N/A	< 0.001	N/A	N/A
	3/21/2023	0.000895*	N/A	N/A	**0.0012**	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A
	8/15/2023	< 0.001	< 0.001	N/A	N/A	**0.00186**	N/A	N/A	< 0.001	< 0.001	N/A
	8/15/2023	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
Tin, mg/L (CAS NO - 7440-31-5)	8/22/2013	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	9/3/2009	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	< 0.05
	7/9/2011	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	< 0.05
	9/14/2011	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Total Metals Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Vanadium, mg/L (CAS NO - 7440-62-2)	3/22/2012	< 0.05	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	0.138	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.05	N/A	N/A	N/A	0.0574	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00474	N/A
	3/4/2014	0.037	N/A	N/A	N/A	0.00844	N/A	N/A	N/A	< 0.05	N/A
	10/28/2014	0.044	N/A	N/A	N/A	0.0159	N/A	N/A	N/A	N/A	N/A
	4/7/2015	0.00145	N/A	N/A	N/A	0.00626	N/A	N/A	N/A	< 0.005	N/A
	9/22/2015	0.0226	N/A	N/A	N/A	0.00158*	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.005	N/A	N/A	N/A	0.000681*	N/A	N/A	N/A	N/A	0.00191*
	7/13/2016	< 0.005	N/A	N/A	N/A	0.000805*	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.005	N/A	N/A	N/A	0.000952*	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.005	N/A	N/A	N/A	0.00127*	N/A	N/A	N/A	< 0.005	N/A
	3/5/2018	< 0.005	N/A	N/A	N/A	0.000898*	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	0.00092*	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.0724	N/A	N/A	N/A	0.000925*	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.005	N/A	N/A	0.00367*	0.000881*	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.005	N/A	N/A	**0.00636**	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	N/A	N/A	0.00214*	0.00103*	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	0.00135*	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.005	N/A	N/A	0.00384*	< 0.005	N/A	N/A	N/A	0.00292*	N/A
	5/18/2021	0.0019*	N/A	N/A	**0.00603**	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.005	N/A	N/A	N/A	0.00338*	N/A	N/A	N/A	< 0.005	N/A
	4/26/2022	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.005	< 0.005	N/A	0.00352*	< 0.005	N/A	N/A	< 0.005	N/A	N/A
	3/21/2023	< 0.005	N/A	N/A	0.00304*	0.00153*	N/A	< 0.005	0.00445*	< 0.005	N/A
	8/15/2023	< 0.005	< 0.005	N/A	N/A	0.0011*	N/A	N/A	< 0.005	< 0.005	N/A
	8/15/2023	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.005	< 0.005	N/A	0.00288*	0.00142*	N/A	N/A	0.00217*	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	0.00117*	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A	0.00115*	0.00208*	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	0.00157*	N/A	N/A	N/A	N/A	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	9/3/2009	0.0432	N/A	N/A	N/A	0.0577	N/A	N/A	N/A	N/A	N/A
	12/16/2009	0.0527	N/A	N/A	N/A	0.0986	N/A	N/A	N/A	N/A	N/A
	3/15/2010	0.0551	N/A	N/A	N/A	0.0691	N/A	N/A	N/A	N/A	N/A
	6/30/2010	0.0299	N/A	N/A	N/A	0.0655	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	0.0656	N/A	N/A	N/A	N/A	N/A
	9/2/2010	0.0316	N/A	N/A	N/A	0.0524	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	0.0239
	7/9/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	9/14/2011	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.02	N/A	N/A	N/A	< 0.02	0.171	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	0.102	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	0.0754	N/A	N/A	N/A	N/A	N/A
	12/13/2012	N/A	N/A	N/A	N/A	0.101	N/A	N/A	N/A	N/A	N/A
	3/19/2013	0.038	N/A	N/A	N/A	0.0719	N/A	N/A	N/A	N/A	N/A
	7/17/2013	N/A	N/A	N/A	N/A	0.104	N/A	N/A	N/A	N/A	N/A
	8/22/2013	0.0562	N/A	N/A	N/A	0.231	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	3/4/2014	0.0246	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	< 0.02	N/A
	10/28/2014	0.116	N/A	N/A	N/A	0.0268	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.01	N/A	N/A	N/A	0.018	N/A	N/A	N/A	< 0.01	N/A
	9/22/2015	0.0304	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.01	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	**0.0719**
	7/13/2016	0.00542*	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	0.0176*	N/A
	3/5/2018	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	8/7/2018	0.116	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.02	N/A	N/A	0.0126*	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	0.0108*	N/A
	5/18/2021	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	< 0.02	N/A
	4/26/2022	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A	N/A	< 0.02	N/A	N/A
	3/21/2023	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	< 0.02	< 0.02	< 0.02	N/A
	8/15/2023	< 0.02	< 0.02	N/A	N/A	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A
	8/15/2023	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A	N/A	< 0.02	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.02	< 0.02	N/A	N/A	< 0.02	N/A	0.0118*	< 0.02	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)	3/4/2014	1850	N/A	N/A	N/A	1000	N/A	1530	N/A	85	N/A
	10/28/2014	2290	N/A	N/A	N/A	2650	N/A	16000	3770	N/A	N/A
	4/7/2015	105	N/A	N/A	N/A	139	N/A	N/A	N/A	7	N/A
	7/28/2015	N/A	N/A	**16900**	N/A	**84.4**	N/A	**629**	N/A	N/A	N/A
	7/28/2015	N/A	N/A	**16900**	N/A	**84.4**	N/A	**629**	N/A	N/A	N/A
	9/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**10.9**	N/A	N/A

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Summary of Groundwater Chemistry
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Total Metals Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Total Suspended Solids, mg/L (CAS NO - TSS)	9/22/2015	40	N/A	N/A	N/A	**75.4**	N/A	**28**	< 1.88	N/A	N/A
	3/29/2016	**9.5**	**58300**	**10100**	N/A	1.63*	N/A	**16.6**	**12**	N/A	**13.8**
	7/13/2016	**18.9**	N/A	N/A	N/A	**11.9**	N/A	N/A	N/A	N/A	N/A
	4/4/2017	N/A	**320**	**31.9**	N/A	N/A	N/A	**122**	< 1.88	N/A	N/A
	4/5/2017	**6.25**	N/A	N/A	N/A	**2.88**	N/A	N/A	N/A	N/A	N/A
	9/19/2017	**15.3**	**15.9**	N/A	N/A	**97.8**	N/A	**76.9**	**2.63**	**56.4**	N/A
	3/5/2018	**3.4**	1.5*	N/A	N/A	**3.13**	N/A	**24.9**	**8.5**	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	**2.75**	N/A	N/A	N/A	N/A	N/A
	8/7/2018	2370	1*	N/A	N/A	**3.63**	N/A	N/A	**7**	N/A	N/A
	3/19/2019	**13.4**	< 1.88	**8.37**	**268**	1*	N/A	**12**	< 1.88	N/A	N/A
	8/27/2019	**14**	N/A	N/A	**540**	**1.88**	N/A	N/A	N/A	N/A	N/A
	3/3/2020	**10**	N/A	N/A	**128**	**25.3**	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	**12.6**	N/A	N/A	N/A	N/A	N/A
	9/22/2020	**25.5**	N/A	N/A	**49.5**	**1.88**	N/A	N/A	N/A	**336**	N/A
	5/18/2021	**104**	N/A	N/A	**604**	**2**	N/A	N/A	N/A	N/A	N/A
	9/14/2021	**22.7**	N/A	N/A	N/A	**44.5**	N/A	N/A	N/A	**36**	N/A
	4/26/2022	**8.5**	N/A	N/A	N/A	**2.75**	N/A	N/A	N/A	N/A	N/A
	9/13/2022	**20.5**	**2.38**	N/A	**126**	1*	N/A	N/A	**2.63**	N/A	N/A
	3/21/2023	**9.87**	N/A	N/A	**29.4**	**33.3**	N/A	**4.25**	**5.12**	**35**	N/A
	8/15/2023	**37.5**	**8.88**	N/A	N/A	**15.5**	N/A	N/A	1.63*	**38**	N/A
	8/15/2023	N/A	**9.12**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	**7.33**	**6**	N/A	**64.6**	**40.9**	N/A	N/A	< 1.88	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	**20.1**	N/A	N/A	N/A	N/A	N/A
	11/5/2024	**7.6**	< 1.88	N/A	N/A	**9.5**	N/A	**270**	**15.4**	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	**63**	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.19	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	4.9	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	2.97	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	0.96*	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	3.99	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	2.17	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	1.35	< 1	0.976*	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	1.22	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	3.44	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	9/3/2009	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2
	7/9/2011	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2
	9/14/2011	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 2	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	3/4/2014	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A
	10/28/2014	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A
	4/7/2015	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2
	7/13/2016	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A
	3/5/2018	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	3/3/2020	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	< 2	N/A
	5/18/2021	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A
	4/26/2022	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 2	< 2	N/A	< 2	< 2	N/A	N/A	< 2	N/A	N/A
	3/21/2023	< 2	N/A	N/A	< 2	< 2	N/A	< 2	< 2	< 2	N/A
	8/15/2023	< 2	< 2	N/A	N/A	< 2	N/A	N/A	< 2	< 2	N/A
	8/15/2023	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 2	< 2	N/A	< 2	< 2	N/A	N/A	< 2	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 2	< 2	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	9/3/2009	< 0.498	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.498	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.498	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.498	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.498	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.12	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	< 0.12
	7/9/2011	< 0.12	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.12	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	< 0.12
	9/14/2011	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.12	N/A	N/A	N/A	< 0.12	< 0.12	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.12	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.12	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A
	3/4/2014	< 0.12	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	< 0.12	N/A
	10/28/2014	< 0.12	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	< 0.5	N/A
	4/7/2015	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	< 0.5
	7/13/2016	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	< 0.5	N/A

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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	3/5/2018	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1.2	N/A	N/A	< 1.2	< 1.2	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1.2	N/A	N/A	< 1.2	< 1.2	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1.2	N/A	N/A	< 1.2	< 1.2	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1.2	N/A	N/A	< 1.2	< 1.2	N/A	N/A	N/A	< 1.2	N/A
	5/18/2021	< 1.2	N/A	N/A	< 1.2	< 1.2	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1.2	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	< 1.2	N/A
	4/26/2022	< 1.2	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1.2	< 1.2	N/A	< 1.2	< 1.2	N/A	N/A	< 1.2	N/A	N/A
	3/21/2023	< 1.2	N/A	N/A	< 1.2	< 1.2	N/A	< 1.2	< 1.2	< 1.2	N/A
	8/15/2023	< 1.2	< 1.2	N/A	N/A	< 1.2	N/A	N/A	< 1.2	< 1.2	N/A
	8/15/2023	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1.2	< 1.2	N/A	< 1.2	< 1.2	N/A	N/A	< 1.2	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1.2	< 1.2	N/A	N/A	< 1.2	N/A	< 1.2	< 1.2	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	9/3/2009	< 0.255	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.255	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.255	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.255	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.255	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	< 0.13
	7/9/2011	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	< 0.13
	9/14/2011	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.13	N/A	N/A	N/A	< 0.13	< 0.13	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A
	3/4/2014	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	< 0.13	N/A
	10/28/2014	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	< 0.13	N/A
	4/7/2015	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	< 0.13
	7/13/2016	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	< 0.13	N/A
	3/5/2018	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.34	N/A	N/A	< 0.34	< 0.34	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.34	N/A	N/A	< 0.34	< 0.34	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.34	N/A	N/A	< 0.34	< 0.34	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.34	N/A	N/A	< 0.34	< 0.34	N/A	N/A	N/A	< 0.34	N/A
	5/18/2021	< 0.34	N/A	N/A	< 0.34	< 0.34	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.34	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	< 0.34	N/A
	4/26/2022	< 0.34	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.34	< 0.34	N/A	< 0.34	< 0.34	N/A	N/A	< 0.34	N/A	N/A
	3/21/2023	< 0.34	N/A	N/A	< 0.34	< 0.34	N/A	< 0.34	< 0.34	< 0.34	N/A
	8/15/2023	< 0.34	< 0.34	N/A	N/A	< 0.34	N/A	N/A	< 0.34	< 0.34	N/A
	8/15/2023	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.34	< 0.34	N/A	< 0.34	< 0.34	N/A	N/A	< 0.34	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.34	< 0.34	N/A	N/A	< 0.34	N/A	< 0.34	< 0.34	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/4/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
2-Butanone, ug/L (CAS NO - 78-93-3)	9/3/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	34.4
	7/9/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	9/14/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
2-Butanone, ug/L (CAS NO - 78-93-3)	3/22/2012	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	3/4/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/7/2015	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/13/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	3/5/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/26/2022	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	3/21/2023	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A
	8/15/2023	< 10	< 10	N/A	N/A	< 10	N/A	N/A	< 10	< 10	N/A
	8/15/2023	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 10	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
2-Hexanone, ug/L (CAS NO - 591-78-6)	9/3/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/9/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	9/14/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	3/4/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/7/2015	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/13/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	3/5/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/26/2022	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	3/21/2023	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A
	8/15/2023	< 10	< 10	N/A	N/A	< 10	N/A	N/A	< 10	< 10	N/A
	8/15/2023	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 10	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	9/3/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	3/8/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/9/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	9/14/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	3/4/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/7/2015	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/13/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	3/5/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/26/2022	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	3/21/2023	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A
	8/15/2023	< 10	< 10	N/A	N/A	< 10	N/A	N/A	< 10	< 10	N/A
	8/15/2023	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 10	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
Acetone, ug/L (CAS NO - 67-64-1)	9/3/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	41.7
	7/9/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	9/14/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	13.3	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/22/2013	3.9*	N/A	N/A	N/A	4.87*	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	3/4/2014	3.73*	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/7/2015	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/13/2016	2.82*	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/5/2017	3.36*	N/A	N/A	N/A	2.66*	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 10	N/A	N/A	N/A	2.55*	N/A	N/A	N/A	3.75*	N/A
	3/5/2018	2.01*	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	2.38*	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2019	3.24*	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 10	N/A	N/A	4.8*	< 10	N/A	N/A	N/A	7.86*	N/A
	5/18/2021	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/26/2022	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	3/21/2023	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A
	8/15/2023	< 10	< 10	N/A	N/A	5.51*	N/A	N/A	5.52*	< 10	N/A
	8/15/2023	N/A	5.18*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 10	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Acrylonitrile, ug/L (CAS NO - 107-13-1)	9/3/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/9/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	9/14/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	3/4/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/7/2015	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/13/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	3/5/2018	0.872*	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/26/2022	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	3/21/2023	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A
	8/15/2023	< 10	< 10	N/A	N/A	< 10	N/A	N/A	< 10	< 10	N/A
	8/15/2023	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 10	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
Benzene, ug/L (CAS NO - 71-43-2)	9/3/2009	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	< 0.5
	7/9/2011	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	< 0.5
	9/14/2011	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A
	3/4/2014	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	< 0.5	N/A
	10/28/2014	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	0.119*	N/A
	4/7/2015	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	< 0.5
	7/13/2016	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	**0.981**	N/A
	3/5/2018	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 0.5	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 0.5	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.5	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 0.5	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	**0.519**	N/A
	5/18/2021	< 0.5	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	**1.37**	N/A
	4/26/2022	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A	N/A	< 0.5	N/A	N/A
	3/21/2023	< 0.5	N/A	N/A	< 0.5	< 0.5	N/A	< 0.5	< 0.5	**1.82**	N/A

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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Benzene, ug/L (CAS NO - 71-43-2)	8/15/2023	< 0.5	< 0.5	N/A	N/A	< 0.5	N/A	N/A	< 0.5	1.64	N/A
	8/15/2023	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A	N/A	< 0.5	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 0.5	< 0.5	N/A	N/A	< 0.5	N/A	< 0.5	< 0.5	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
Bromochloromethane, ug/L (CAS NO - 74-97-5)	9/3/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/9/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	9/14/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	3/4/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/7/2015	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/13/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	3/5/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5	N/A
	5/18/2021	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/26/2022	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	3/21/2023	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	N/A
	8/15/2023	< 5	< 5	N/A	N/A	< 5	N/A	N/A	< 5	< 5	N/A
	8/15/2023	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 5	< 5	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Bromoform, ug/L (CAS NO - 75-25-2)	9/3/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/9/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	9/14/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/22/2013	0.238*	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	3/4/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/7/2015	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/13/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	3/5/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5	N/A
	5/18/2021	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/26/2022	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	3/21/2023	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	N/A
	8/15/2023	< 5	< 5	N/A	N/A	< 5	N/A	N/A	< 5	< 5	N/A
	8/15/2023	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 5	< 5	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
Bromomethane, ug/L (CAS NO - 74-83-9)	9/3/2009	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	7/9/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	9/14/2011	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	3/4/2014	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A
	10/28/2014	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A
	4/7/2015	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	7/13/2016	< 4	N/A	N/A	N/A	0.502*	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/19/2017	0.375*	N/A	N/A	N/A	0.435*	N/A	N/A	N/A	0.382*	N/A
	3/5/2018	< 4	N/A	N/A	N/A	0.283*	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Bromomethane, ug/L (CAS NO - 74-83-9)	3/3/2020	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	< 4	N/A
	5/18/2021	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A
	4/26/2022	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 4	< 4	N/A	< 4	< 4	N/A	N/A	< 4	N/A	N/A
	3/21/2023	< 4	N/A	N/A	< 4	< 4	N/A	< 4	< 4	< 4	N/A
	8/15/2023	< 4	< 4	N/A	N/A	< 4	N/A	N/A	< 4	< 4	N/A
	8/15/2023	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 4	< 4	N/A	< 4	< 4	N/A	N/A	< 4	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 4	< 4	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	0.918*	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	9/3/2009	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2
	7/9/2011	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	9/14/2011	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 2	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	3/4/2014	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A
	10/28/2014	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A
	4/7/2015	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2
	7/13/2016	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	3/5/2018	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	< 2	N/A
	5/18/2021	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A
	4/26/2022	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 2	< 2	N/A	< 2	< 2	N/A	N/A	< 2	N/A	N/A
	3/21/2023	< 2	N/A	N/A	< 2	< 2	N/A	< 2	< 2	< 2	N/A
	8/15/2023	< 2	< 2	N/A	N/A	< 2	N/A	N/A	< 2	< 2	N/A
	8/15/2023	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 2	< 2	N/A	< 2	< 2	N/A	N/A	< 2	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 2	< 2	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
Chlorobenzene, ug/L (CAS NO - 108-90-7)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	**1.14**	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	0.956*	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	**1.08**	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	9/3/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/9/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	9/14/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	3/4/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/7/2015	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	9/22/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/13/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	3/5/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5	N/A
	5/18/2021	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/26/2022	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	3/21/2023	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	N/A
	8/15/2023	< 5	< 5	N/A	N/A	< 5	N/A	N/A	< 5	< 5	N/A
	8/15/2023	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 5	< 5	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
Chloroethane, ug/L (CAS NO - 75-00-3)	9/3/2009	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	7/9/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	9/14/2011	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.59*	N/A
	3/4/2014	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	1.74*	N/A
	10/28/2014	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	4.69	N/A
	4/7/2015	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	7/13/2016	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	1.69*	N/A
	3/5/2018	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	< 4	N/A
	5/18/2021	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	2.13*	N/A
	4/26/2022	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 4	< 4	N/A	< 4	< 4	N/A	N/A	< 4	N/A	N/A
	3/21/2023	< 4	N/A	N/A	< 4	< 4	N/A	< 4	< 4	1.98*	N/A
	8/15/2023	< 4	< 4	N/A	N/A	< 4	N/A	N/A	< 4	2.11*	N/A
	8/15/2023	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 4	< 4	N/A	< 4	< 4	N/A	N/A	< 4	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 4	< 4	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
Chloroform, ug/L (CAS NO - 67-66-3)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Chloroform, ug/L (CAS NO - 67-66-3)	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	< 3	N/A
	5/18/2021	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A
	4/26/2022	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 3	< 3	N/A	< 3	< 3	N/A	N/A	< 3	N/A	N/A
	3/21/2023	< 3	N/A	N/A	< 3	< 3	N/A	< 3	< 3	< 3	N/A
	8/15/2023	< 3	< 3	N/A	N/A	< 3	N/A	N/A	< 3	< 3	N/A
	8/15/2023	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 3	< 3	N/A	< 3	< 3	N/A	N/A	< 3	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 3	< 3	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
Chloromethane, ug/L (CAS NO - 74-87-3)	9/3/2009	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	< 3
	7/9/2011	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	< 3
	9/14/2011	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 3	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	3/4/2014	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A
	10/28/2014	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A
	4/7/2015	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	< 3
	7/13/2016	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A
	3/5/2018	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	< 3	N/A
	5/18/2021	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A
	4/26/2022	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 3	< 3	N/A	< 3	< 3	N/A	N/A	< 3	N/A	N/A
	3/21/2023	< 3	N/A	N/A	< 3	< 3	N/A	< 3	< 3	< 3	N/A
	8/15/2023	< 3	< 3	N/A	N/A	< 3	N/A	N/A	< 3	< 3	N/A
	8/15/2023	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 3	< 3	N/A	< 3	< 3	N/A	N/A	< 3	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 3	< 3	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2.23**	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	**3.22**	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	**3.33**	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	**2.47**	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	0.551*	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	**8.2**	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	**4.24**	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	**1.86**	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	**1.67**	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	0.558*	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	9/3/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/9/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	9/14/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	3/4/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/7/2015	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/13/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	3/5/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5	N/A
	5/18/2021	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/26/2022	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	3/21/2023	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	N/A
	8/15/2023	< 5	< 5	N/A	N/A	< 5	N/A	N/A	< 5	< 5	N/A
	8/15/2023	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 5	< 5	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Ethylbenzene, ug/L (CAS NO - 100-41-4)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Iodomethane, ug/L (CAS NO - 74-88-4)	9/3/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 20	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 50	N/A	N/A	N/A	< 50	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 50	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/9/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	9/14/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	3/4/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/7/2015	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/13/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	3/5/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/26/2022	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	3/21/2023	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Iodomethane, ug/L (CAS NO - 74-88-4)	8/15/2023	< 10	< 10	N/A	N/A	< 10	N/A	N/A	< 10	< 10	N/A
	8/15/2023	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 10	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
Methylene Bromide, ug/L (CAS NO - 74-95-3)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Methylene Chloride, ug/L (CAS NO - 75-09-2)	9/3/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/9/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	9/14/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/22/2013	0.225*	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	3/4/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/7/2015	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 5	N/A	N/A	N/A	0.208*	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/13/2016	0.374*	N/A	N/A	N/A	0.296*	N/A	N/A	N/A	N/A	N/A
	4/5/2017	0.191*	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	3/5/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Methylene Chloride, ug/L (CAS NO - 75-09-2)	5/18/2021	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/26/2022	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	3/21/2023	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	N/A
	8/15/2023	< 5	< 5	N/A	N/A	< 5	N/A	N/A	< 5	< 5	N/A
	8/15/2023	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 5	< 5	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
Styrene, ug/L (CAS NO - 100-42-5)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Toluene, ug/L (CAS NO - 108-88-3)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	0.206*	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	0.649*	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	0.507*	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	0.517*	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	0.213*	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	9/3/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/9/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	9/14/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	3/4/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/7/2015	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5
	7/13/2016	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	3/5/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5	N/A
	5/18/2021	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A
	4/26/2022	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	3/21/2023	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	N/A
	8/15/2023	< 5	< 5	N/A	N/A	< 5	N/A	N/A	< 5	< 5	N/A
	8/15/2023	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	< 5	N/A	< 5	< 5	N/A	N/A	< 5	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 5	< 5	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	9/3/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/9/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	9/14/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	3/4/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	4/7/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/7/2015	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/13/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	3/5/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/26/2022	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	3/21/2023	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A
	8/15/2023	< 10	< 10	N/A	N/A	< 10	N/A	N/A	< 10	< 10	N/A
	8/15/2023	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 10	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
Trichloroethene, ug/L (CAS NO - 79-01-6)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	0.823*	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	9/3/2009	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	7/9/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	9/14/2011	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	3/19/2013	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	3/4/2014	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A
	10/28/2014	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A
	4/7/2015	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4
	7/13/2016	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A
	3/5/2018	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	< 4	N/A
	5/18/2021	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A
	4/26/2022	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 4	< 4	N/A	< 4	< 4	N/A	N/A	< 4	N/A	N/A
	3/21/2023	< 4	N/A	N/A	< 4	< 4	N/A	< 4	< 4	< 4	N/A
	8/15/2023	< 4	< 4	N/A	N/A	< 4	N/A	N/A	< 4	< 4	N/A
	8/15/2023	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 4	< 4	N/A	< 4	< 4	N/A	N/A	< 4	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 4	< 4	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	7/9/2011	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2
	9/14/2011	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 2	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	3/4/2014	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A
	10/28/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/7/2015	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10
	7/13/2016	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	3/5/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A
	4/26/2022	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	3/21/2023	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A
	8/15/2023	< 10	< 10	N/A	N/A	< 10	N/A	N/A	< 10	< 10	N/A
	8/15/2023	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	< 10	N/A	< 10	< 10	N/A	N/A	< 10	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 10	< 10	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	9/3/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	7/9/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1
	9/14/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/4/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	8/22/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/4/2014	< 1	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A
	10/28/2014	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	0.561*	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	3/29/2016	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	< 1
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/5/2017	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	0.95*	N/A
	3/5/2018	< 1	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 1	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A
	3/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	8/27/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/3/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	0.225*	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 1	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A
	5/18/2021	< 1	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	9/14/2021	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	2.02	N/A
	4/26/2022	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	3/21/2023	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	1.79	N/A
	8/15/2023	< 1	< 1	N/A	N/A	< 1	N/A	N/A	< 1	2.01	N/A
	8/15/2023	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	< 1	N/A	< 1	< 1	N/A	N/A	< 1	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 1	< 1	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Xylenes, total, ug/L (CAS NO - 1330-20-7)	9/3/2009	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	12/16/2009	< 6	N/A	N/A	N/A	< 6	N/A	N/A	N/A	N/A	N/A
	3/15/2010	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	6/30/2010	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	6/30/2010	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/2/2010	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/8/2011	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	< 3
	7/9/2011	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/14/2011	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	< 3
	9/14/2011	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/22/2012	< 3	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A
	3/22/2012	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	8/20/2012	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	2/11/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	3/4/2014	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A
	10/28/2014	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A
	4/7/2015	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/29/2016	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	< 3
	7/13/2016	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/5/2017	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/19/2017	0.26*	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A
	3/5/2018	0.134*	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/5/2018	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	8/7/2018	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/19/2019	< 3	N/A	N/A	0.472*	< 3	N/A	N/A	N/A	N/A	N/A
	8/27/2019	< 3	N/A	N/A	0.42*	< 3	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 3	N/A	N/A	0.417*	< 3	N/A	N/A	N/A	N/A	N/A
	3/3/2020	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/22/2020	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	< 3	N/A
	5/18/2021	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	9/14/2021	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A
	4/26/2022	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/13/2022	< 3	< 3	N/A	< 3	< 3	N/A	N/A	< 3	N/A	N/A
	3/21/2023	< 3	N/A	N/A	< 3	< 3	N/A	< 3	< 3	< 3	N/A
	8/15/2023	< 3	< 3	N/A	N/A	< 3	N/A	N/A	< 3	< 3	N/A
	8/15/2023	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 3	< 3	N/A	< 3	< 3	N/A	N/A	< 3	N/A	N/A
	5/7/2024	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	11/5/2024	< 3	< 3	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A
	11/5/2024	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
M&P-Xylene, ug/L (CAS NO - 179601-23-1)	8/20/2012	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
O-Xylene, ug/L (CAS NO - 95-47-6)	8/20/2012	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/19/2013	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Other Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	8/22/2013	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	8/22/2013	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	8/22/2013	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	8/22/2013	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
1-Naphthylamine, ug/L (CAS NO - 134-32-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	8/22/2013	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2,4,5-T [2C], ug/L (CAS NO - 93-76-5)	8/22/2013	N/A	N/A	N/A	N/A	< 1.04	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 1.03	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 1.13	N/A	N/A	N/A	N/A	N/A
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)	8/22/2013	N/A	N/A	N/A	N/A	< 1.04	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 1.03	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 1.13	N/A	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2,4-D [2C], ug/L (CAS NO - 94-75-7)	8/22/2013	N/A	N/A	N/A	N/A	< 1.04	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 1.03	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 1.13	N/A	N/A	N/A	N/A	N/A
2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)	8/22/2013	N/A	N/A	N/A	N/A	< 20.2	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2-Methylphenol, ug/L (CAS NO - 95-48-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Other Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
2-Naphthylamine, ug/L (CAS NO - 91-59-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	3/4/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A
	10/28/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1)	8/22/2013	N/A	N/A	N/A	N/A	< 50.5	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 51.5	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
3-Chloropropene, ug/L (CAS NO - 107-05-1)	8/22/2013	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
4,4`-DDD, ug/L (CAS NO - 72-54-8)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	0.00308*	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
4,4`-DDE, ug/L (CAS NO - 72-55-9)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
4,4`-DDT, ug/L (CAS NO - 50-29-3)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	3/4/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A
	10/28/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
4-Nitroaniline, ug/L (CAS NO - 100-01-6)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
7,12-Dimethylbenz [a] anthracene, ug/L (CAS NO - 57-97-6)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Acenaphthene, ug/L (CAS NO - 83-32-9)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Acenaphthylene, ug/L (CAS NO - 208-96-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Acetonitrile, ug/L (CAS NO - 75-05-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A
Acetophenone, ug/L (CAS NO - 98-86-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Other Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Acrolein, ug/L (CAS NO - 107-02-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
Aldrin, ug/L (CAS NO - 309-00-2)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Anthracene, ug/L (CAS NO - 120-12-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Alpha-BHC, ug/L (CAS NO - 319-84-6)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Beta-BHC, ug/L (CAS NO - 319-85-7)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Delta-BHC, ug/L (CAS NO - 319-86-8)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	0.767*	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Chlordane, ug/L (CAS NO - 57-74-9)	8/22/2013	N/A	N/A	N/A	N/A	< 2.02	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 2.02	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 2.27	N/A	N/A	N/A	N/A	N/A
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Chloroprene, ug/L (CAS NO - 126-99-8)	8/22/2013	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Chrysene, ug/L (CAS NO - 218-01-9)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Cyanide, mg/L (CAS NO - 57-12-5)	8/22/2013	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Dibenzofuran, ug/L (CAS NO - 132-64-9)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	8/22/2013	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
Dieldrin, ug/L (CAS NO - 60-57-1)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Other Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Diethyl phthalate, ug/L (CAS NO - 84-66-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Dimethoate, ug/L (CAS NO - 60-51-5)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	8/22/2013	N/A	N/A	N/A	N/A	< 20.2	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A	N/A	N/A	N/A
Dinoseb, ug/L (CAS NO - 88-85-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Diphenylamine, ug/L (CAS NO - 122-39-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Disulfoton, ug/L (CAS NO - 298-04-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Endosulfan I, ug/L (CAS NO - 959-98-8)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Endosulfan II, ug/L (CAS NO - 33213-65-9)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	0.00216*	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Endrin, ug/L (CAS NO - 72-20-8)	8/22/2013	N/A	N/A	N/A	N/A	0.00256*	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	0.00204*	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde, ug/L (CAS NO - 7421-93-4)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Ethyl Methacrylate, ug/L (CAS NO - 97-63-2)	8/22/2013	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Famphur, ug/L (CAS NO - 52-85-7)	8/22/2013	N/A	N/A	N/A	N/A	< 20.2	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Fluoranthene, ug/L (CAS NO - 206-44-0)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Fluorene, ug/L (CAS NO - 86-73-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Heptachlor, ug/L (CAS NO - 76-44-8)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4)	8/22/2013	N/A	N/A	N/A	N/A	< 20.2	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Hexachloroethane, ug/L (CAS NO - 67-72-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Hexachloropropene, ug/L (CAS NO - 1888-71-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Isobutanol, mg/L (CAS NO - 78-83-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Other Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
Isodrin, ug/L (CAS NO - 465-73-6)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Isophorone, ug/L (CAS NO - 78-59-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Isosafrole, ug/L (CAS NO - 120-58-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Kepone, ug/L (CAS NO - 143-50-0)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Methacrylonitrile, ug/L (CAS NO - 126-98-7)	8/22/2013	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
Methapyrilene, ug/L (CAS NO - 91-80-5)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Methoxychlor, ug/L (CAS NO - 72-43-5)	8/22/2013	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.0364	N/A	N/A	N/A	N/A	N/A
Methyl Methacrylate, ug/L (CAS NO - 80-62-6)	8/22/2013	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	3/4/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A
	10/28/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Naphthalene, ug/L (CAS NO - 91-20-3)	8/22/2013	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	4.19*	N/A	N/A	N/A	N/A	N/A
Nitrobenzene, ug/L (CAS NO - 98-95-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
N-Nitrosodiethylamine, ug/L (CAS NO - 55-18-5)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
N-Nitrosodimethylamine, ug/L (CAS NO - 62-75-9)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	3/4/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A
	10/28/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
N-Nitrosodi-n-butylamine, ug/L (CAS NO - 924-16-3)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
N-Nitrosodi-n-propylamine, ug/L (CAS NO - 621-64-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
N-Nitrosomethylethylamine, ug/L (CAS NO - 10595-95-6)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	3/4/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A
	10/28/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
N-Nitrosopiperidine, ug/L (CAS NO - 100-75-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	3/4/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A
	10/28/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
O-Toluidine, ug/L (CAS NO - 95-53-4)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Parathion-Ethyl, ug/L (CAS NO - 56-38-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Parathion-Methyl, ug/L (CAS NO - 298-00-0)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
PCB-1016, ug/L (CAS NO - 12674-11-2)	8/22/2013	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.909	N/A	N/A	N/A	N/A	N/A
PCB-1221, ug/L (CAS NO - 11104-28-2)	8/22/2013	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.909	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P

Other Constituents	Sample Date	MW-06-7R UPG	MW-05-2 DNG	MW-05-3 DNG	MW-05-8R DNG	MW-19 DNG	MW-25 DNG	MW-28 DNG	MW-29 DNG	GU-1 DNG	UD-2 DNG
PCB-1232, ug/L (CAS NO - 11141-16-5)	8/22/2013	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.909	N/A	N/A	N/A	N/A	N/A
PCB-1242, ug/L (CAS NO - 53469-21-9)	8/22/2013	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.909	N/A	N/A	N/A	N/A	N/A
PCB-1248, ug/L (CAS NO - 12672-29-6)	8/22/2013	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.909	N/A	N/A	N/A	N/A	N/A
PCB-1254, ug/L (CAS NO - 11097-69-1)	8/22/2013	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.909	N/A	N/A	N/A	N/A	N/A
PCB-1260, ug/L (CAS NO - 11096-82-5)	8/22/2013	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 0.909	N/A	N/A	N/A	N/A	N/A
Pentachlorobenzene, ug/L (CAS NO - 608-93-5)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Pentachloronitrobenzene, ug/L (CAS NO - 82-68-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Phenacetin, ug/L (CAS NO - 62-44-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Phenanthrene, ug/L (CAS NO - 85-01-8)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Phenol, ug/L (CAS NO - 108-95-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	9/19/2017	< 19.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Phorate, ug/L (CAS NO - 298-02-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Pronamide, ug/L (CAS NO - 23950-58-5)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Propionitrile, ug/L (CAS NO - 107-12-0)	8/22/2013	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
Pyrene, ug/L (CAS NO - 129-00-0)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Safrole, ug/L (CAS NO - 94-59-7)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Sulfide, mg/L (CAS NO - 18496-25-8)	3/19/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/22/2013	< 1	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	3/4/2014	0.274*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/7/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/22/2015	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/13/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Thionazin, ug/L (CAS NO - 297-97-2)	8/22/2013	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	N/A	N/A
Toxaphene, ug/L (CAS NO - 8001-35-2)	8/22/2013	N/A	N/A	N/A	N/A	< 2.02	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	N/A	N/A	N/A	< 2.02	N/A	N/A	N/A	N/A	N/A
	5/18/2021	N/A	N/A	N/A	N/A	< 2.27	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

Appendix C-2

Summary of Groundwater Chemistry – Bedrock

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Total Metals Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	12/11/2018	< 0.001	< 0.001	< 0.001	< 0.001
	3/26/2019	< 0.001	< 0.001	< 0.001	< 0.001
	8/27/2019	< 0.001	< 0.001	< 0.001	< 0.001
	3/3/2020	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	< 0.001	< 0.001	< 0.001
	5/18/2021	< 0.002	< 0.002	< 0.002	< 0.002
	9/14/2021	< 0.002	< 0.002	< 0.002	< 0.002
	4/26/2022	< 0.002	< 0.002	< 0.002	< 0.002
	9/13/2022	< 0.002	< 0.002	< 0.002	< 0.002
	3/21/2023	< 0.002	< 0.002	< 0.002	< 0.002
	3/21/2023	N/A	< 0.002	N/A	N/A
	8/15/2023	< 0.002	< 0.002	< 0.002	< 0.002
	8/15/2023	N/A	< 0.002	N/A	N/A
	5/7/2024	< 0.002	< 0.002	< 0.002	< 0.002
	5/7/2024	N/A	N/A	< 0.002	N/A
	11/5/2024	< 0.002	< 0.002	< 0.002	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	12/11/2018	**0.0031**	< 0.002	**0.00262**	< 0.002
	3/26/2019	< 0.002	< 0.002	**0.00233**	< 0.002
	8/27/2019	**0.00284**	< 0.002	**0.00274**	< 0.002
	3/3/2020	< 0.002	< 0.002	**0.00254**	< 0.002
	9/22/2020	< 0.002	< 0.002	**0.00237**	< 0.002
	5/18/2021	< 0.002	< 0.002	**0.00264**	< 0.002
	9/14/2021	< 0.002	< 0.002	**0.00226**	< 0.002
	4/26/2022	< 0.002	< 0.002	**0.00239**	< 0.002
	9/13/2022	< 0.002	< 0.002	**0.00266**	< 0.002
	3/21/2023	< 0.002	< 0.002	**0.00272**	< 0.002
	3/21/2023	N/A	< 0.002	N/A	N/A
	8/15/2023	0.000547*	< 0.002	**0.00234**	< 0.002
	8/15/2023	N/A	< 0.002	N/A	N/A
	5/7/2024	< 0.002	< 0.002	**0.0025**	< 0.002
	5/7/2024	N/A	N/A	**0.00262**	N/A
	11/5/2024	< 0.002	< 0.002	**0.00248**	N/A
Barium, mg/L (CAS NO - 7440-39-3)	12/11/2018	**0.688**	**0.0175**	**0.167**	**0.185**
	3/26/2019	**0.327**	**0.015**	**0.155**	**0.16**
	8/27/2019	**0.703**	**0.017**	**0.164**	**0.187**
	3/3/2020	**0.359**	**0.0176**	**0.17**	**0.138**
	9/22/2020	**0.329**	**0.0144**	**0.158**	**0.175**
	5/18/2021	**0.318**	**0.0155**	**0.171**	**0.158**
	9/14/2021	**0.347**	**0.0167**	**0.161**	**0.178**
	4/26/2022	**0.381**	**0.0154**	**0.165**	**0.176**
	9/13/2022	**0.358**	**0.016**	**0.176**	**0.188**
	3/21/2023	**0.354**	**0.0169**	**0.167**	**0.123**
	3/21/2023	N/A	**0.0166**	N/A	N/A
	8/15/2023	**0.35**	**0.0153**	**0.168**	**0.167**
	8/15/2023	N/A	**0.0146**	N/A	N/A
	5/7/2024	**0.327**	**0.0167**	**0.162**	**0.17**
	5/7/2024	N/A	N/A	**0.162**	N/A
	11/5/2024	**0.332**	**0.0171**	**0.177**	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Total Metals Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Beryllium, mg/L (CAS NO - 7440-41-7)	12/11/2018	**0.00154**	< 0.001	< 0.001	< 0.001
	3/26/2019	< 0.001	< 0.001	< 0.001	< 0.001
	8/27/2019	**0.00208**	< 0.001	< 0.001	< 0.001
	3/3/2020	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	< 0.001	< 0.001	< 0.001
	5/18/2021	< 0.001	< 0.001	< 0.001	< 0.001
	9/14/2021	< 0.001	< 0.001	< 0.001	< 0.001
	4/26/2022	< 0.001	< 0.001	< 0.001	< 0.001
	9/13/2022	< 0.001	< 0.001	< 0.001	< 0.001
	3/21/2023	< 0.001	< 0.001	< 0.001	< 0.001
	3/21/2023	N/A	< 0.001	N/A	N/A
	8/15/2023	< 0.001	< 0.001	< 0.001	< 0.001
	8/15/2023	N/A	< 0.001	N/A	N/A
	5/7/2024	< 0.001	< 0.001	< 0.001	< 0.001
	5/7/2024	N/A	N/A	< 0.001	N/A
	11/5/2024	< 0.001	< 0.001	< 0.001	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	12/11/2018	**0.000585**	< 0.0005	< 0.0005	< 0.0005
	3/26/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	8/27/2019	**0.000648**	< 0.0001	0.000048*	< 0.0001
	3/3/2020	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	9/22/2020	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	5/18/2021	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	9/14/2021	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	4/26/2022	0.000082*	< 0.0001	0.00006*	< 0.0001
	9/13/2022	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	3/21/2023	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	3/21/2023	N/A	< 0.0001	N/A	N/A
	8/15/2023	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	8/15/2023	N/A	< 0.0002	N/A	N/A
	5/7/2024	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	5/7/2024	N/A	N/A	< 0.0002	N/A
	11/5/2024	< 0.0002	< 0.0002	< 0.0002	N/A
Chromium, mg/L (CAS NO - 7440-47-3)	12/11/2018	**0.00833**	0.000832*	0.000912*	0.00167*
	3/26/2019	0.00098*	< 0.005	< 0.005	< 0.005
	8/27/2019	**0.00782**	< 0.005	0.0043*	< 0.005
	3/3/2020	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2020	0.00153*	< 0.005	< 0.005	< 0.005
	5/18/2021	< 0.005	< 0.005	< 0.005	< 0.005
	9/14/2021	0.00438*	< 0.005	< 0.005	< 0.005
	4/26/2022	0.00291*	< 0.005	< 0.005	< 0.005
	9/13/2022	< 0.005	< 0.005	< 0.005	< 0.005
	3/21/2023	< 0.005	< 0.005	< 0.005	< 0.005
	3/21/2023	N/A	< 0.005	N/A	N/A
	8/15/2023	< 0.005	< 0.005	< 0.005	< 0.005
	8/15/2023	N/A	< 0.005	N/A	N/A
	5/7/2024	< 0.005	< 0.005	< 0.005	< 0.005
	5/7/2024	N/A	N/A	< 0.005	N/A
	11/5/2024	< 0.005	0.00336*	< 0.005	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Total Metals Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Cobalt, mg/L (CAS NO - 7440-48-4)	12/11/2018	**0.00808**	0.000125*	0.000481*	0.00027*
	3/26/2019	0.0004*	< 0.0005	0.00032*	< 0.0005
	8/27/2019	**0.0102**	< 0.0005	0.000356*	0.000331*
	3/3/2020	0.000338*	< 0.0005	0.000376*	0.000095*
	9/22/2020	0.000468*	< 0.0005	0.000358*	0.000101*
	5/18/2021	0.000299*	< 0.0005	0.000457*	0.000112*
	9/14/2021	**0.00075**	< 0.0005	0.000412*	< 0.0005
	4/26/2022	**0.00374**	< 0.0005	**0.00051**	< 0.0005
	9/13/2022	**0.00389**	< 0.0005	0.00048*	< 0.0005
	3/21/2023	**0.00364**	< 0.0005	0.00041*	< 0.0005
	3/21/2023	N/A	< 0.0005	N/A	N/A
	8/15/2023	**0.0029**	< 0.0005	0.000436*	< 0.0005
	8/15/2023	N/A	< 0.0005	N/A	N/A
	5/7/2024	**0.00192**	< 0.0005	0.000394*	< 0.0005
	5/7/2024	N/A	N/A	0.000392*	N/A
	11/5/2024	**0.000723**	< 0.0005	0.000476*	N/A
Copper, mg/L (CAS NO - 7440-50-8)	12/11/2018	**0.0135**	< 0.005	< 0.005	< 0.005
	3/26/2019	< 0.005	< 0.005	< 0.005	< 0.005
	8/27/2019	**0.00651**	< 0.005	< 0.005	< 0.005
	3/3/2020	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2020	< 0.005	< 0.005	< 0.005	< 0.005
	5/18/2021	< 0.005	< 0.005	< 0.005	< 0.005
	9/14/2021	< 0.005	< 0.005	< 0.005	< 0.005
	4/26/2022	0.00316*	< 0.005	< 0.005	< 0.005
	9/13/2022	< 0.005	< 0.005	< 0.005	< 0.005
	3/21/2023	< 0.005	< 0.005	< 0.005	< 0.005
	3/21/2023	N/A	< 0.005	N/A	N/A
	8/15/2023	< 0.005	< 0.005	< 0.005	< 0.005
	8/15/2023	N/A	< 0.005	N/A	N/A
	5/7/2024	< 0.005	< 0.005	< 0.005	< 0.005
	5/7/2024	N/A	N/A	< 0.005	N/A
	11/5/2024	< 0.005	< 0.005	< 0.005	N/A
Lead, mg/L (CAS NO - 7439-92-1)	12/11/2018	**0.0149**	< 0.0005	**0.000869**	**0.000892**
	3/26/2019	**0.000717**	< 0.0005	< 0.0005	< 0.0005
	8/27/2019	**0.0176**	< 0.0005	< 0.0005	**0.00115**
	3/3/2020	**0.000658**	< 0.0005	< 0.0005	< 0.0005
	9/22/2020	0.000499*	< 0.0005	0.000199*	0.000241*
	5/18/2021	0.000374*	< 0.0005	< 0.0005	< 0.0005
	9/14/2021	**0.000718**	< 0.0005	0.000231*	< 0.0005
	4/26/2022	**0.00282**	< 0.0005	**0.000838**	< 0.0005
	9/13/2022	0.000314*	< 0.0005	0.000424*	< 0.0005
	3/21/2023	0.000338*	< 0.0005	< 0.0005	< 0.0005
	3/21/2023	N/A	< 0.0005	N/A	N/A
	8/15/2023	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	8/15/2023	N/A	< 0.0005	N/A	N/A
	5/7/2024	0.000458*	< 0.0005	< 0.0005	< 0.0005
	5/7/2024	N/A	N/A	< 0.0005	N/A
	11/5/2024	0.000461*	< 0.0005	0.000276*	N/A

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Total Metals Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Nickel, mg/L (CAS NO - 7440-02-0)	12/11/2018	**0.0227**	< 0.005	< 0.005	0.00169*
	3/26/2019	< 0.005	< 0.005	< 0.005	< 0.005
	8/27/2019	**0.0192**	< 0.005	< 0.005	< 0.005
	3/3/2020	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2020	< 0.005	< 0.005	< 0.005	< 0.005
	5/18/2021	< 0.005	< 0.005	< 0.005	< 0.005
	9/14/2021	0.00194*	< 0.005	< 0.005	< 0.005
	4/26/2022	0.00203*	< 0.005	< 0.005	< 0.005
	9/13/2022	< 0.005	< 0.005	< 0.005	< 0.005
	3/21/2023	< 0.005	< 0.005	< 0.005	< 0.005
	3/21/2023	N/A	< 0.005	N/A	N/A
	8/15/2023	< 0.005	< 0.005	< 0.005	< 0.005
	8/15/2023	N/A	< 0.005	N/A	N/A
	5/7/2024	< 0.005	< 0.005	< 0.005	< 0.005
	5/7/2024	N/A	N/A	< 0.005	N/A
	11/5/2024	< 0.005	0.00272*	< 0.005	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	12/11/2018	0.00106*	< 0.005	< 0.005	0.00143*
	3/26/2019	< 0.005	< 0.005	< 0.005	0.00177*
	8/27/2019	0.00209*	< 0.005	< 0.005	0.00161*
	3/3/2020	< 0.005	< 0.005	< 0.005	0.00127*
	9/22/2020	< 0.005	< 0.005	< 0.005	0.00173*
	5/18/2021	< 0.005	< 0.005	< 0.005	0.00264*
	9/14/2021	< 0.005	< 0.005	< 0.005	0.00142*
	4/26/2022	< 0.005	< 0.005	< 0.005	0.00115*
	9/13/2022	< 0.005	< 0.005	< 0.005	0.0018*
	3/21/2023	< 0.005	< 0.005	< 0.005	0.00139*
	3/21/2023	N/A	< 0.005	N/A	N/A
	8/15/2023	< 0.005	< 0.005	< 0.005	0.00157*
	8/15/2023	N/A	< 0.005	N/A	N/A
	5/7/2024	< 0.005	< 0.005	< 0.005	< 0.005
	5/7/2024	N/A	N/A	< 0.005	N/A
	11/5/2024	< 0.005	< 0.005	< 0.005	N/A
Silver, mg/L (CAS NO - 7440-22-4)	12/11/2018	< 0.001	< 0.001	< 0.001	< 0.001
	3/26/2019	< 0.001	< 0.001	< 0.001	< 0.001
	8/27/2019	< 0.001	< 0.001	< 0.001	< 0.001
	3/3/2020	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	< 0.001	< 0.001	< 0.001
	5/18/2021	< 0.001	< 0.001	< 0.001	< 0.001
	9/14/2021	< 0.001	< 0.001	< 0.001	< 0.001
	4/26/2022	< 0.001	< 0.001	< 0.001	< 0.001
	9/13/2022	< 0.001	< 0.001	< 0.001	< 0.001
	3/21/2023	< 0.001	< 0.001	< 0.001	< 0.001
	3/21/2023	N/A	< 0.001	N/A	N/A
	8/15/2023	< 0.001	< 0.001	< 0.001	< 0.001
	8/15/2023	N/A	< 0.001	N/A	N/A
	5/7/2024	< 0.001	< 0.001	< 0.001	< 0.001
	5/7/2024	N/A	N/A	< 0.001	N/A
	11/5/2024	< 0.001	< 0.001	< 0.001	N/A

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Total Metals Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Thallium, mg/L (CAS NO - 7440-28-0)	12/11/2018	< 0.001	< 0.001	< 0.001	< 0.001
	3/26/2019	< 0.001	< 0.001	< 0.001	< 0.001
	8/27/2019	< 0.001	< 0.001	< 0.001	< 0.001
	3/3/2020	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	< 0.001	< 0.001	< 0.001
	5/18/2021	< 0.001	< 0.001	< 0.001	< 0.001
	9/14/2021	< 0.001	< 0.001	< 0.001	< 0.001
	4/26/2022	< 0.001	< 0.001	< 0.001	< 0.001
	9/13/2022	< 0.001	< 0.001	< 0.001	< 0.001
	3/21/2023	< 0.001	< 0.001	< 0.001	< 0.001
	3/21/2023	N/A	< 0.001	N/A	N/A
	8/15/2023	< 0.001	< 0.001	< 0.001	< 0.001
	8/15/2023	N/A	< 0.001	N/A	N/A
	5/7/2024	< 0.001	< 0.001	< 0.001	< 0.001
	5/7/2024	N/A	N/A	< 0.001	N/A
	11/5/2024	< 0.001	< 0.001	< 0.001	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	12/11/2018	**0.0268**	< 0.005	< 0.005	0.000636*
	3/26/2019	0.00134*	< 0.005	< 0.005	< 0.005
	8/27/2019	**0.0314**	< 0.005	< 0.005	< 0.005
	3/3/2020	0.000863*	< 0.005	< 0.005	< 0.005
	9/22/2020	0.00136*	< 0.005	< 0.005	< 0.005
	5/18/2021	< 0.005	< 0.005	< 0.005	< 0.005
	9/14/2021	0.00258*	< 0.005	< 0.005	< 0.005
	4/26/2022	0.00359*	< 0.005	< 0.005	< 0.005
	9/13/2022	< 0.005	< 0.005	< 0.005	< 0.005
	3/21/2023	< 0.005	< 0.005	< 0.005	< 0.005
	3/21/2023	N/A	< 0.005	N/A	N/A
	8/15/2023	< 0.005	< 0.005	< 0.005	< 0.005
	8/15/2023	N/A	< 0.005	N/A	N/A
	5/7/2024	< 0.005	< 0.005	< 0.005	< 0.005
	5/7/2024	N/A	N/A	< 0.005	N/A
	11/5/2024	< 0.005	< 0.005	< 0.005	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	12/11/2018	**0.0462**	< 0.02	< 0.02	< 0.02
	3/26/2019	< 0.02	< 0.02	< 0.02	< 0.02
	8/27/2019	**0.0755**	< 0.02	< 0.02	< 0.02
	3/3/2020	< 0.02	< 0.02	< 0.02	< 0.02
	9/22/2020	< 0.02	< 0.02	< 0.02	< 0.02
	5/18/2021	< 0.02	< 0.02	< 0.02	< 0.02
	9/14/2021	< 0.02	< 0.02	< 0.02	< 0.02
	4/26/2022	0.0119*	< 0.02	< 0.02	< 0.02
	9/13/2022	< 0.02	< 0.02	< 0.02	< 0.02
	3/21/2023	< 0.02	< 0.02	< 0.02	< 0.02
	3/21/2023	N/A	< 0.02	N/A	N/A
	8/15/2023	< 0.02	0.00644*	< 0.02	< 0.02
	8/15/2023	N/A	< 0.02	N/A	N/A
	5/7/2024	< 0.02	< 0.02	< 0.02	< 0.02
	5/7/2024	N/A	N/A	< 0.02	N/A
	11/5/2024	**0.0214**	< 0.02	< 0.02	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Total Metals Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Total Suspended Solids, mg/L (CAS NO - TSS)	12/11/2018	**2580**	**42.4**	**152**	**254**
	3/26/2019	**41.2**	**8.63**	**6**	**33.4**
	8/27/2019	**2440**	**5.75**	**12.9**	**116**
	3/3/2020	**68**	**6.75**	**19.8**	**18.2**
	9/22/2020	**45.3**	**4.38**	**15**	**30.4**
	5/18/2021	**42.2**	**3.63**	**5.75**	**8.75**
	9/14/2021	**30.5**	**3.38**	**13.9**	**6.38**
	4/26/2022	**123**	**4.88**	**75.8**	**3.5**
	9/13/2022	**21.3**	**2.88**	**27**	**14.4**
	3/21/2023	**23.5**	**6.25**	**12.8**	**55.1**
	3/21/2023	N/A	**6.63**	N/A	N/A
	8/15/2023	**13.8**	**2.88**	**14.3**	**20.9**
	8/15/2023	N/A	**5.5**	N/A	N/A
	5/7/2024	**33**	**18**	**19.9**	**36**
	5/7/2024	N/A	N/A	**17.8**	N/A
	11/5/2024	**28.6**	**15.9**	**13.4**	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is est

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	12/11/2018	< 2	< 2	< 2	< 2
	3/26/2019	< 2	< 2	< 2	< 2
	8/27/2019	< 2	< 2	< 2	< 2
	3/3/2020	< 2	< 2	< 2	< 2
	9/22/2020	< 2	< 2	< 2	< 2
	5/18/2021	< 2	< 2	< 2	< 2
	9/14/2021	< 2	< 2	< 2	< 2
	4/26/2022	< 2	< 2	< 2	< 2
	9/13/2022	< 2	< 2	< 2	< 2
	3/21/2023	< 2	< 2	< 2	< 2
	3/21/2023	N/A	< 2	N/A	N/A
	8/15/2023	< 2	< 2	< 2	< 2
	8/15/2023	N/A	< 2	N/A	N/A
	5/7/2024	< 2	< 2	< 2	< 2
	5/7/2024	N/A	N/A	< 2	N/A
	11/5/2024	< 2	< 2	< 2	N/A

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Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	12/11/2018	< 1.2	< 1.2	< 1.2	< 1.2
	3/26/2019	< 1.2	< 1.2	< 1.2	< 1.2
	8/27/2019	< 1.2	< 1.2	< 1.2	< 1.2
	3/3/2020	< 1.2	< 1.2	< 1.2	< 1.2
	9/22/2020	< 1.2	< 1.2	< 1.2	< 1.2
	5/18/2021	< 1.2	< 1.2	< 1.2	< 1.2
	9/14/2021	< 1.2	< 1.2	< 1.2	< 1.2
	4/26/2022	< 1.2	< 1.2	< 1.2	< 1.2
	9/13/2022	< 1.2	< 1.2	< 1.2	< 1.2
	3/21/2023	< 1.2	< 1.2	< 1.2	< 1.2
	3/21/2023	N/A	< 1.2	N/A	N/A
	8/15/2023	< 1.2	< 1.2	< 1.2	< 1.2
	8/15/2023	N/A	< 1.2	N/A	N/A
	5/7/2024	< 1.2	< 1.2	< 1.2	< 1.2
	5/7/2024	N/A	N/A	< 1.2	N/A
	11/5/2024	< 1.2	< 1.2	< 1.2	N/A
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	12/11/2018	< 0.34	< 0.34	< 0.34	< 0.34
	3/26/2019	< 0.34	< 0.34	< 0.34	< 0.34
	8/27/2019	< 0.34	< 0.34	< 0.34	< 0.34
	3/3/2020	< 0.34	< 0.34	< 0.34	< 0.34
	9/22/2020	< 0.34	< 0.34	< 0.34	< 0.34
	5/18/2021	< 0.34	< 0.34	< 0.34	< 0.34
	9/14/2021	< 0.34	< 0.34	< 0.34	< 0.34
	4/26/2022	< 0.34	< 0.34	< 0.34	< 0.34
	9/13/2022	< 0.34	< 0.34	< 0.34	< 0.34
	3/21/2023	< 0.34	< 0.34	< 0.34	< 0.34
	3/21/2023	N/A	< 0.34	N/A	N/A
	8/15/2023	< 0.34	< 0.34	< 0.34	< 0.34
	8/15/2023	N/A	< 0.34	N/A	N/A
	5/7/2024	< 0.34	< 0.34	< 0.34	< 0.34
	5/7/2024	N/A	N/A	< 0.34	N/A
	11/5/2024	< 0.34	< 0.34	< 0.34	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
2-Butanone, ug/L (CAS NO - 78-93-3)	12/11/2018	< 10	< 10	< 10	< 10
	3/26/2019	< 10	< 10	< 10	< 10
	8/27/2019	< 10	< 10	< 10	< 10
	3/3/2020	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10
	5/18/2021	< 10	< 10	< 10	< 10
	9/14/2021	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10
	9/13/2022	< 10	< 10	< 10	< 10
	3/21/2023	< 10	< 10	< 10	< 10
	3/21/2023	N/A	< 10	N/A	N/A
	8/15/2023	< 10	< 10	< 10	< 10
	8/15/2023	N/A	< 10	N/A	N/A
	5/7/2024	< 10	< 10	< 10	< 10
	5/7/2024	N/A	N/A	< 10	N/A
	11/5/2024	< 10	< 10	< 10	N/A
2-Hexanone, ug/L (CAS NO - 591-78-6)	12/11/2018	< 10	< 10	< 10	< 10
	3/26/2019	< 10	< 10	< 10	< 10
	8/27/2019	< 10	< 10	< 10	< 10
	3/3/2020	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10
	5/18/2021	< 10	< 10	< 10	< 10
	9/14/2021	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10
	9/13/2022	< 10	< 10	< 10	< 10
	3/21/2023	< 10	< 10	< 10	< 10
	3/21/2023	N/A	< 10	N/A	N/A
	8/15/2023	< 10	< 10	< 10	< 10
	8/15/2023	N/A	< 10	N/A	N/A
	5/7/2024	< 10	< 10	< 10	< 10
	5/7/2024	N/A	N/A	< 10	N/A
	11/5/2024	< 10	< 10	< 10	N/A

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Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	12/11/2018	< 10	< 10	< 10	< 10
	3/26/2019	< 10	< 10	< 10	< 10
	8/27/2019	< 10	< 10	< 10	< 10
	3/3/2020	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10
	5/18/2021	< 10	< 10	< 10	< 10
	9/14/2021	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10
	9/13/2022	< 10	< 10	< 10	< 10
	3/21/2023	< 10	< 10	< 10	< 10
	3/21/2023	N/A	< 10	N/A	N/A
	8/15/2023	< 10	< 10	< 10	< 10
	8/15/2023	N/A	< 10	N/A	N/A
	5/7/2024	< 10	< 10	< 10	< 10
	5/7/2024	N/A	N/A	< 10	N/A
	11/5/2024	< 10	< 10	< 10	N/A
Acetone, ug/L (CAS NO - 67-64-1)	12/11/2018	< 10	< 10	< 10	< 10
	3/26/2019	< 10	< 10	< 10	< 10
	8/27/2019	< 10	< 10	< 10	3.56*
	3/3/2020	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10
	5/18/2021	< 10	4.18*	4.27*	< 10
	9/14/2021	< 10	< 10	3.52*	< 10
	4/26/2022	< 10	< 10	< 10	< 10
	9/13/2022	< 10	< 10	< 10	< 10
	3/21/2023	< 10	< 10	< 10	< 10
	3/21/2023	N/A	< 10	N/A	N/A
	8/15/2023	< 10	< 10	4.28*	< 10
	8/15/2023	N/A	< 10	N/A	N/A
	5/7/2024	< 10	< 10	< 10	< 10
	5/7/2024	N/A	N/A	< 10	N/A
	11/5/2024	< 10	< 10	< 10	N/A
Acrylonitrile, ug/L (CAS NO - 107-13-1)	12/11/2018	< 10	< 10	< 10	< 10
	3/26/2019	< 10	< 10	< 10	< 10
	8/27/2019	< 10	< 10	< 10	< 10
	3/3/2020	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10
	5/18/2021	< 10	< 10	< 10	< 10
	9/14/2021	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10
	9/13/2022	< 10	< 10	< 10	< 10
	3/21/2023	< 10	< 10	< 10	< 10
	3/21/2023	N/A	< 10	N/A	N/A
	8/15/2023	< 10	< 10	< 10	< 10
	8/15/2023	N/A	< 10	N/A	N/A
	5/7/2024	< 10	< 10	< 10	< 10
	5/7/2024	N/A	N/A	< 10	N/A
	11/5/2024	< 10	< 10	< 10	N/A

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Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Benzene, ug/L (CAS NO - 71-43-2)	12/11/2018	< 0.5	< 0.5	< 0.5	< 0.5
	3/26/2019	< 0.5	< 0.5	< 0.5	< 0.5
	8/27/2019	< 0.5	< 0.5	< 0.5	< 0.5
	3/3/2020	< 0.5	< 0.5	< 0.5	< 0.5
	9/22/2020	< 0.5	< 0.5	< 0.5	< 0.5
	5/18/2021	< 0.5	< 0.5	< 0.5	< 0.5
	9/14/2021	< 0.5	< 0.5	< 0.5	< 0.5
	4/26/2022	< 0.5	< 0.5	< 0.5	< 0.5
	9/13/2022	< 0.5	< 0.5	< 0.5	< 0.5
	3/21/2023	< 0.5	< 0.5	< 0.5	< 0.5
	3/21/2023	N/A	< 0.5	N/A	N/A
	8/15/2023	< 0.5	< 0.5	< 0.5	< 0.5
	8/15/2023	N/A	< 0.5	N/A	N/A
	5/7/2024	< 0.5	< 0.5	< 0.5	< 0.5
	5/7/2024	N/A	N/A	< 0.5	N/A
	11/5/2024	< 0.5	< 0.5	< 0.5	N/A
Bromochloromethane, ug/L (CAS NO - 74-97-5)	12/11/2018	< 5	< 5	< 5	< 5
	3/26/2019	< 5	< 5	< 5	< 5
	8/27/2019	< 5	< 5	< 5	< 5
	3/3/2020	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5
	5/18/2021	< 5	< 5	< 5	< 5
	9/14/2021	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5
	9/13/2022	< 5	< 5	< 5	< 5
	3/21/2023	< 5	< 5	< 5	< 5
	3/21/2023	N/A	< 5	N/A	N/A
	8/15/2023	< 5	< 5	< 5	< 5
	8/15/2023	N/A	< 5	N/A	N/A
	5/7/2024	< 5	< 5	< 5	< 5
	5/7/2024	N/A	N/A	< 5	N/A
	11/5/2024	< 5	< 5	< 5	N/A
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Bromoform, ug/L (CAS NO - 75-25-2)	12/11/2018	< 5	< 5	< 5	< 5
	3/26/2019	< 5	< 5	< 5	< 5
	8/27/2019	< 5	< 5	< 5	< 5
	3/3/2020	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5
	5/18/2021	< 5	< 5	< 5	< 5
	9/14/2021	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5
	9/13/2022	< 5	< 5	< 5	< 5
	3/21/2023	< 5	< 5	< 5	< 5
	3/21/2023	N/A	< 5	N/A	N/A
	8/15/2023	< 5	< 5	< 5	< 5
	8/15/2023	N/A	< 5	N/A	N/A
	5/7/2024	< 5	< 5	< 5	< 5
	5/7/2024	N/A	N/A	< 5	N/A
	11/5/2024	< 5	< 5	< 5	N/A
Bromomethane, ug/L (CAS NO - 74-83-9)	12/11/2018	< 4	< 4	< 4	< 4
	3/26/2019	< 4	< 4	< 4	< 4
	8/27/2019	< 4	< 4	< 4	< 4
	3/3/2020	< 4	< 4	< 4	< 4
	9/22/2020	< 4	< 4	< 4	< 4
	5/18/2021	< 4	< 4	< 4	< 4
	9/14/2021	< 4	< 4	< 4	< 4
	4/26/2022	< 4	< 4	< 4	< 4
	9/13/2022	< 4	< 4	< 4	< 4
	3/21/2023	< 4	< 4	< 4	< 4
	3/21/2023	N/A	< 4	N/A	N/A
	8/15/2023	< 4	< 4	< 4	< 4
	8/15/2023	N/A	< 4	N/A	N/A
	5/7/2024	< 4	< 4	< 4	< 4
	5/7/2024	N/A	N/A	< 4	N/A
	11/5/2024	< 4	< 4	< 4	N/A
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	0.622*	< 1	0.629*	< 1
	9/22/2020	0.48*	< 1	0.721*	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	12/11/2018	< 2	< 2	< 2	< 2
	3/26/2019	< 2	< 2	< 2	< 2
	8/27/2019	< 2	< 2	< 2	< 2
	3/3/2020	< 2	< 2	< 2	< 2
	9/22/2020	< 2	< 2	< 2	< 2
	5/18/2021	< 2	< 2	< 2	< 2
	9/14/2021	< 2	< 2	< 2	< 2
	4/26/2022	< 2	< 2	< 2	< 2
	9/13/2022	< 2	< 2	< 2	< 2
	3/21/2023	< 2	< 2	< 2	< 2
	3/21/2023	N/A	< 2	N/A	N/A
	8/15/2023	< 2	< 2	< 2	< 2
	8/15/2023	N/A	< 2	N/A	N/A
	5/7/2024	< 2	< 2	< 2	< 2
	5/7/2024	N/A	N/A	< 2	N/A
	11/5/2024	< 2	< 2	< 2	N/A
Chlorobenzene, ug/L (CAS NO - 108-90-7)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	12/11/2018	< 5	< 5	< 5	< 5
	3/26/2019	< 5	< 5	< 5	< 5
	8/27/2019	< 5	< 5	< 5	< 5
	3/3/2020	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5
	5/18/2021	< 5	< 5	< 5	< 5
	9/14/2021	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5
	9/13/2022	< 5	< 5	< 5	< 5
	3/21/2023	< 5	< 5	< 5	< 5
	3/21/2023	N/A	< 5	N/A	N/A
	8/15/2023	< 5	< 5	< 5	< 5
	8/15/2023	N/A	< 5	N/A	N/A
	5/7/2024	< 5	< 5	< 5	< 5
	5/7/2024	N/A	N/A	< 5	N/A
	11/5/2024	< 5	< 5	< 5	N/A

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Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Chloroethane, ug/L (CAS NO - 75-00-3)	12/11/2018	< 4	< 4	< 4	< 4
	3/26/2019	< 4	< 4	< 4	< 4
	8/27/2019	< 4	< 4	< 4	< 4
	3/3/2020	< 4	< 4	< 4	< 4
	9/22/2020	< 4	< 4	< 4	< 4
	5/18/2021	< 4	< 4	< 4	< 4
	9/14/2021	< 4	< 4	< 4	< 4
	4/26/2022	< 4	< 4	< 4	< 4
	9/13/2022	< 4	< 4	< 4	< 4
	3/21/2023	< 4	< 4	< 4	< 4
	3/21/2023	N/A	< 4	N/A	N/A
	8/15/2023	< 4	< 4	< 4	< 4
	8/15/2023	N/A	< 4	N/A	N/A
	5/7/2024	< 4	< 4	< 4	< 4
	5/7/2024	N/A	N/A	< 4	N/A
	11/5/2024	< 4	< 4	< 4	N/A
Chloroform, ug/L (CAS NO - 67-66-3)	12/11/2018	< 3	< 3	< 3	< 3
	3/26/2019	< 3	< 3	< 3	< 3
	8/27/2019	< 3	< 3	< 3	< 3
	3/3/2020	< 3	< 3	< 3	< 3
	9/22/2020	< 3	< 3	< 3	< 3
	5/18/2021	< 3	< 3	< 3	< 3
	9/14/2021	< 3	< 3	< 3	< 3
	4/26/2022	< 3	< 3	< 3	< 3
	9/13/2022	< 3	< 3	< 3	< 3
	3/21/2023	< 3	< 3	< 3	< 3
	3/21/2023	N/A	< 3	N/A	N/A
	8/15/2023	< 3	< 3	< 3	< 3
	8/15/2023	N/A	< 3	N/A	N/A
	5/7/2024	< 3	< 3	< 3	< 3
	5/7/2024	N/A	N/A	< 3	N/A
	11/5/2024	< 3	< 3	< 3	N/A
Chloromethane, ug/L (CAS NO - 74-87-3)	12/11/2018	< 3	< 3	< 3	< 3
	3/26/2019	< 3	< 3	< 3	< 3
	8/27/2019	< 3	< 3	< 3	< 3
	3/3/2020	< 3	< 3	< 3	< 3
	9/22/2020	< 3	< 3	< 3	< 3
	5/18/2021	< 3	< 3	< 3	< 3
	9/14/2021	< 3	< 3	< 3	< 3
	4/26/2022	< 3	< 3	< 3	< 3
	9/13/2022	< 3	< 3	< 3	< 3
	3/21/2023	< 3	< 3	< 3	< 3
	3/21/2023	N/A	< 3	N/A	N/A
	8/15/2023	< 3	< 3	< 3	< 3
	8/15/2023	N/A	< 3	N/A	N/A
	5/7/2024	< 3	< 3	< 3	< 3
	5/7/2024	N/A	N/A	< 3	N/A
	11/5/2024	< 3	< 3	< 3	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	12/11/2018	< 5	< 5	< 5	< 5
	3/26/2019	< 5	< 5	< 5	< 5
	8/27/2019	< 5	< 5	< 5	< 5
	3/3/2020	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5
	5/18/2021	< 5	< 5	< 5	< 5
	9/14/2021	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5
	9/13/2022	< 5	< 5	< 5	< 5
	3/21/2023	< 5	< 5	< 5	< 5
	3/21/2023	N/A	< 5	N/A	N/A
	8/15/2023	< 5	< 5	< 5	< 5
	8/15/2023	N/A	< 5	N/A	N/A
	5/7/2024	< 5	< 5	< 5	< 5
	5/7/2024	N/A	N/A	< 5	N/A
	11/5/2024	< 5	< 5	< 5	N/A
Ethylbenzene, ug/L (CAS NO - 100-41-4)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Iodomethane, ug/L (CAS NO - 74-88-4)	12/11/2018	< 10	< 10	< 10	< 10
	3/26/2019	< 10	< 10	< 10	< 10
	8/27/2019	< 10	< 10	< 10	< 10
	3/3/2020	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10
	5/18/2021	< 10	< 10	< 10	< 10
	9/14/2021	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10
	9/13/2022	< 10	< 10	< 10	< 10
	3/21/2023	< 10	< 10	< 10	< 10
	3/21/2023	N/A	< 10	N/A	N/A
	8/15/2023	< 10	< 10	< 10	< 10
	8/15/2023	N/A	< 10	N/A	N/A
	5/7/2024	< 10	< 10	< 10	< 10
	5/7/2024	N/A	N/A	< 10	N/A
	11/5/2024	< 10	< 10	< 10	N/A
Methylene Bromide, ug/L (CAS NO - 74-95-3)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
Methylene Chloride, ug/L (CAS NO - 75-09-2)	12/11/2018	< 5	< 5	< 5	< 5
	3/26/2019	< 5	< 5	< 5	< 5
	8/27/2019	< 5	< 5	< 5	< 5
	3/3/2020	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5
	5/18/2021	< 5	< 5	< 5	< 5
	9/14/2021	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5
	9/13/2022	< 5	< 5	< 5	< 5
	3/21/2023	< 5	< 5	< 5	< 5
	3/21/2023	N/A	< 5	N/A	N/A
	8/15/2023	< 5	< 5	< 5	< 5
	8/15/2023	N/A	< 5	N/A	N/A
	5/7/2024	< 5	< 5	< 5	< 5
	5/7/2024	N/A	N/A	< 5	N/A
	11/5/2024	< 5	< 5	< 5	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Styrene, ug/L (CAS NO - 100-42-5)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
Toluene, ug/L (CAS NO - 108-88-3)	12/11/2018	1.56	0.787*	0.68*	0.431*
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	0.492*	0.479*	0.688*	< 1
	3/3/2020	0.506*	0.493*	0.819*	0.566*
	9/22/2020	0.565*	< 1	< 1	0.564*
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	12/11/2018	< 5	< 5	< 5	< 5
	3/26/2019	< 5	< 5	< 5	< 5
	8/27/2019	< 5	< 5	< 5	< 5
	3/3/2020	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5
	5/18/2021	< 5	< 5	< 5	< 5
	9/14/2021	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5
	9/13/2022	< 5	< 5	< 5	< 5
	3/21/2023	< 5	< 5	< 5	< 5
	3/21/2023	N/A	< 5	N/A	N/A
	8/15/2023	< 5	< 5	< 5	< 5
	8/15/2023	N/A	< 5	N/A	N/A
	5/7/2024	< 5	< 5	< 5	< 5
	5/7/2024	N/A	N/A	< 5	N/A
	11/5/2024	< 5	< 5	< 5	N/A
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	12/11/2018	< 10	< 10	< 10	< 10
	3/26/2019	< 10	< 10	< 10	< 10
	8/27/2019	< 10	< 10	< 10	< 10
	3/3/2020	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10
	5/18/2021	< 10	< 10	< 10	< 10
	9/14/2021	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10
	9/13/2022	< 10	< 10	< 10	< 10
	3/21/2023	< 10	< 10	< 10	< 10
	3/21/2023	N/A	< 10	N/A	N/A
	8/15/2023	< 10	< 10	< 10	< 10
	8/15/2023	N/A	< 10	N/A	N/A
	5/7/2024	< 10	< 10	< 10	< 10
	5/7/2024	N/A	N/A	< 10	N/A
	11/5/2024	< 10	< 10	< 10	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Trichloroethene, ug/L (CAS NO - 79-01-6)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	12/11/2018	< 4	< 4	< 4	< 4
	3/26/2019	< 4	< 4	< 4	< 4
	8/27/2019	< 4	< 4	< 4	< 4
	3/3/2020	< 4	< 4	< 4	< 4
	9/22/2020	< 4	< 4	< 4	< 4
	5/18/2021	< 4	< 4	< 4	< 4
	9/14/2021	< 4	< 4	< 4	< 4
	4/26/2022	< 4	< 4	< 4	< 4
	9/13/2022	< 4	< 4	< 4	< 4
	3/21/2023	< 4	< 4	< 4	< 4
	3/21/2023	N/A	< 4	N/A	N/A
	8/15/2023	< 4	< 4	< 4	< 4
	8/15/2023	N/A	< 4	N/A	N/A
	5/7/2024	< 4	< 4	< 4	< 4
	5/7/2024	N/A	N/A	< 4	N/A
	11/5/2024	< 4	< 4	< 4	N/A
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	12/11/2018	< 10	< 10	< 10	< 10
	3/26/2019	< 10	< 10	< 10	< 10
	8/27/2019	< 10	< 10	< 10	< 10
	3/3/2020	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10
	5/18/2021	< 10	< 10	< 10	< 10
	9/14/2021	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10
	9/13/2022	< 10	< 10	< 10	< 10
	3/21/2023	< 10	< 10	< 10	< 10
	3/21/2023	N/A	< 10	N/A	N/A
	8/15/2023	< 10	< 10	< 10	< 10
	8/15/2023	N/A	< 10	N/A	N/A
	5/7/2024	< 10	< 10	< 10	< 10
	5/7/2024	N/A	N/A	< 10	N/A
	11/5/2024	< 10	< 10	< 10	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bedrock

Appendix I VOC Constituents	Sample Date	MW-39 DNG	MW-40 DNG	MW-41 DNG	MW-42 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	12/11/2018	< 1	< 1	< 1	< 1
	3/26/2019	< 1	< 1	< 1	< 1
	8/27/2019	< 1	< 1	< 1	< 1
	3/3/2020	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1
	5/18/2021	< 1	< 1	< 1	< 1
	9/14/2021	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1
	9/13/2022	< 1	< 1	< 1	< 1
	3/21/2023	< 1	< 1	< 1	< 1
	3/21/2023	N/A	< 1	N/A	N/A
	8/15/2023	< 1	< 1	< 1	< 1
	8/15/2023	N/A	< 1	N/A	N/A
	5/7/2024	< 1	< 1	< 1	< 1
	5/7/2024	N/A	N/A	< 1	N/A
	11/5/2024	< 1	< 1	< 1	N/A
Xylenes, total, ug/L (CAS NO - 1330-20-7)	12/11/2018	1.03*	0.597*	< 3	< 3
	3/26/2019	< 3	< 3	< 3	< 3
	8/27/2019	< 3	< 3	< 3	< 3
	3/3/2020	0.696*	0.457*	1.41*	0.593*
	9/22/2020	< 3	< 3	< 3	< 3
	5/18/2021	< 3	< 3	< 3	< 3
	9/14/2021	< 3	< 3	< 3	< 3
	4/26/2022	< 3	< 3	< 3	< 3
	9/13/2022	< 3	< 3	< 3	< 3
	3/21/2023	< 3	< 3	< 3	< 3
	3/21/2023	N/A	< 3	N/A	N/A
	8/15/2023	< 3	< 3	< 3	< 3
	8/15/2023	N/A	< 3	N/A	N/A
	5/7/2024	< 3	< 3	< 3	< 3
	5/7/2024	N/A	N/A	< 3	N/A
	11/5/2024	< 3	< 3	< 3	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is est

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

Appendix C-3

Summary of Groundwater Chemistry – Source & Natural Attenuation

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	7/31/2009	N/A	N/A	N/A	N/A	< 0.006
	9/3/2009	< 0.006	< 0.006	N/A	N/A	< 0.006
	12/16/2009	< 0.006	< 0.006	N/A	N/A	< 0.006
	12/16/2009	N/A	N/A	N/A	N/A	< 0.006
	3/15/2010	< 0.006	< 0.006	N/A	N/A	< 0.006
	3/15/2010	N/A	N/A	N/A	N/A	< 0.006
	6/30/2010	< 0.006	< 0.006	N/A	N/A	< 0.006
	6/30/2010	N/A	N/A	N/A	N/A	< 0.006
	9/2/2010	< 0.006	0.00608	N/A	N/A	< 0.006
	3/8/2011	< 0.006	< 0.006	N/A	N/A	< 0.006
	9/14/2011	< 0.006	< 0.006	N/A	N/A	< 0.006
	3/22/2012	< 0.006	< 0.006	N/A	N/A	< 0.006
	8/20/2012	< 0.006	< 0.006	N/A	N/A	< 0.006
	3/19/2013	< 0.006	< 0.006	N/A	N/A	< 0.006
	7/17/2013	N/A	N/A	< 0.006	< 0.006	N/A
	8/22/2013	< 0.006	< 0.006	0.00159	< 0.006	0.00189
	8/22/2013	N/A	N/A	0.00111	N/A	N/A
	10/30/2013	N/A	N/A	< 0.006	< 0.006	N/A
	2/11/2014	N/A	N/A	< 0.006	< 0.006	N/A
	3/4/2014	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	3/4/2014	N/A	N/A	N/A	< 0.006	N/A
	10/28/2014	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	4/7/2015	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001
	7/28/2015	N/A	N/A	< 0.005	< 0.001	N/A
	9/22/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2015	N/A	N/A	N/A	< 0.001	N/A
	3/29/2016	< 0.001	< 0.001	< 0.001	0.000255*	< 0.001
	7/13/2016	< 0.001	< 0.001	< 0.001	0.000415*	< 0.001
	7/13/2016	N/A	N/A	N/A	N/A	< 0.001
	4/5/2017	< 0.001	< 0.001	< 0.001	0.000452*	< 0.001
	9/19/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/19/2017	N/A	< 0.001	N/A	N/A	N/A
	3/5/2018	< 0.001	< 0.001	< 0.001	0.000269*	< 0.001
	8/7/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/7/2018	N/A	N/A	N/A	N/A	< 0.001
	3/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/19/2019	N/A	N/A	< 0.001	N/A	N/A
	8/27/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/27/2019	N/A	N/A	N/A	N/A	< 0.001
	3/3/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	N/A	N/A	N/A	N/A
	5/18/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	5/18/2021	< 0.002	N/A	N/A	N/A	N/A
	9/14/2021	< 0.008	< 0.002	< 0.002	< 0.002	< 0.002
	4/26/2022	< 0.008	< 0.002	< 0.002	< 0.002	< 0.002
	4/26/2022	N/A	N/A	< 0.002	N/A	N/A
	9/13/2022	< 0.002	< 0.002	N/A	< 0.002	< 0.002
	9/13/2022	N/A	N/A	N/A	< 0.002	N/A
	3/21/2023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	8/15/2023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	5/7/2024	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	11/5/2024	< 0.002	< 0.002	N/A	< 0.002	< 0.002

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Arsenic, mg/L (CAS NO - 7440-38-2)	7/31/2009	N/A	N/A	N/A	N/A	0.0152
	9/3/2009	0.00294	0.0118	N/A	N/A	0.029
	12/16/2009	0.00415	0.00901	N/A	N/A	0.0318
	12/16/2009	N/A	N/A	N/A	N/A	0.036
	3/15/2010	0.00491	0.00628	N/A	N/A	0.0241
	3/15/2010	N/A	N/A	N/A	N/A	0.0246
	6/30/2010	0.00455	0.00649	N/A	N/A	0.0519
	6/30/2010	N/A	N/A	N/A	N/A	0.0519
	9/2/2010	0.00261	0.00334	N/A	N/A	0.011
	3/8/2011	0.00854	0.00652	N/A	N/A	0.00123
	9/14/2011	< 0.001	0.00247	N/A	N/A	0.0434
	3/22/2012	0.00971	0.0085	N/A	N/A	0.0295
	8/20/2012	0.00169	0.00983	N/A	N/A	0.082
	3/19/2013	0.005	0.00652	N/A	N/A	0.0782
	7/17/2013	N/A	N/A	0.0295	0.00227	N/A
	8/22/2013	0.00276	0.0152	0.0243	0.00679	0.101
	8/22/2013	N/A	N/A	0.0181	N/A	N/A
	10/30/2013	N/A	N/A	0.0263	0.00673	N/A
	2/11/2014	N/A	N/A	0.0209	0.00274	N/A
	3/4/2014	0.000509	0.00255	0.00388	0.001	0.0319
	3/4/2014	N/A	N/A	N/A	< 0.002	N/A
	10/28/2014	0.00218	0.00455	0.0158	0.00902	0.0475
	4/7/2015	0.00553	0.00465	0.014	0.00359	0.0189
	7/28/2015	N/A	N/A	**0.0249**	**0.0139**	N/A
	9/22/2015	**0.0196**	**0.00762**	**0.0254**	**0.0143**	**0.0583**
	9/22/2015	N/A	N/A	N/A	**0.0167**	N/A
	3/29/2016	**0.021**	**0.00635**	**0.0263**	0.00135*	**0.0202**
	7/13/2016	**0.0305**	**0.00575**	**0.0244**	**0.00384**	**0.0588**
	7/13/2016	N/A	N/A	N/A	N/A	**0.0701**
	4/5/2017	**0.02**	**0.00606**	**0.0271**	**0.00312**	**0.0163**
	9/19/2017	**0.0075**	**0.0067**	**0.00856**	**0.0114**	**0.0902**
	9/19/2017	N/A	**0.00694**	N/A	N/A	N/A
	3/5/2018	**0.0102**	**0.00581**	**0.0215**	**0.0109**	**0.0161**
	8/7/2018	**0.0125**	**0.0067**	**0.0142**	**0.00604**	**0.0441**
	8/7/2018	N/A	N/A	N/A	N/A	**0.0457**
	3/19/2019	**0.0347**	**0.00671**	**0.012**	**0.0146**	**0.017**
	3/19/2019	N/A	N/A	**0.0117**	N/A	N/A
	8/27/2019	**0.00931**	**0.00727**	**0.00776**	**0.00947**	**0.0399**
	8/27/2019	N/A	N/A	N/A	N/A	**0.0426**
	3/3/2020	**0.0302**	**0.00738**	**0.0251**	**0.0175**	**0.00855**
	9/22/2020	**0.0309**	**0.00698**	**0.0078**	**0.00931**	**0.0478**
	9/22/2020	**0.0253**	N/A	N/A	N/A	N/A
	5/18/2021	**0.0304**	**0.0061**	**0.00931**	**0.00661**	**0.0138**
	5/18/2021	**0.0225**	N/A	N/A	N/A	N/A
	9/14/2021	**0.0162**	**0.00621**	**0.00512**	**0.00956**	**0.0331**
	4/26/2022	**0.0294**	**0.00602**	**0.0112**	**0.0129**	**0.0116**
	4/26/2022	N/A	N/A	**0.0101**	N/A	N/A
	9/13/2022	**0.0232**	**0.00758**	N/A	**0.00858**	**0.0246**
	9/13/2022	N/A	N/A	N/A	**0.00728**	N/A
	3/21/2023	**0.0316**	**0.007**	**0.0177**	**0.00619**	**0.0124**
	8/15/2023	**0.0234**	**0.0066**	**0.0103**	**0.0175**	**0.0257**
	5/7/2024	**0.031**	**0.00711**	**0.0153**	**0.00484**	**0.00642**
	11/5/2024	**0.0247**	**0.00557**	N/A	**0.00715**	**0.0295**

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Barium, mg/L (CAS NO - 7440-39-3)	7/31/2009	N/A	N/A	N/A	N/A	0.464
	9/3/2009	0.134	0.513	N/A	N/A	0.416
	12/16/2009	1.06	0.634	N/A	N/A	0.439
	12/16/2009	N/A	N/A	N/A	N/A	0.465
	3/15/2010	0.726	0.618	N/A	N/A	0.405
	3/15/2010	N/A	N/A	N/A	N/A	0.431
	6/30/2010	0.513	0.562	N/A	N/A	0.413
	6/30/2010	N/A	N/A	N/A	N/A	0.413
	9/2/2010	0.336	0.481	N/A	N/A	0.401
	3/8/2011	0.703	0.657	N/A	N/A	0.258
	9/14/2011	0.655	0.563	N/A	N/A	0.418
	3/22/2012	0.69	0.629	N/A	N/A	0.353
	8/20/2012	0.429	0.509	N/A	N/A	0.383
	3/19/2013	0.827	0.577	N/A	N/A	0.26
	7/17/2013	N/A	N/A	1.03	0.375	N/A
	8/22/2013	1.89	1.97	0.722	1.02	1.56
	8/22/2013	N/A	N/A	0.492	N/A	N/A
	10/30/2013	N/A	N/A	1.96	1.05	N/A
	2/11/2014	N/A	N/A	1.03	0.638	N/A
	3/4/2014	1.14	0.651	0.399	0.413	0.378
	3/4/2014	N/A	N/A	N/A	0.406	N/A
	10/28/2014	1.93	0.675	0.382	0.401	0.469
	4/7/2015	1.62	0.522	0.33	0.355	0.433
	7/28/2015	N/A	N/A	0.167	0.298	N/A
	9/22/2015	1.77	0.603	0.181	0.306	0.439
	9/22/2015	N/A	N/A	N/A	0.306	N/A
	3/29/2016	1.51	0.498	0.164	0.115	0.338
	7/13/2016	1.81	0.492	0.161	0.246	0.391
	7/13/2016	N/A	N/A	N/A	N/A	0.372
	4/5/2017	1.75	0.501	0.186	0.245	0.355
	9/19/2017	1.67	0.578	0.315	0.174	0.466
	9/19/2017	N/A	0.58	N/A	N/A	N/A
	3/5/2018	2.03	0.639	0.219	0.169	0.342
	8/7/2018	2.38	0.556	0.246	0.152	0.429
	8/7/2018	N/A	N/A	N/A	N/A	0.442
	3/19/2019	2.29	0.52	0.257	0.211	0.316
	3/19/2019	N/A	N/A	0.245	N/A	N/A
	8/27/2019	1.92	0.494	0.246	0.214	0.446
	8/27/2019	N/A	N/A	N/A	N/A	0.437
	3/3/2020	2.46	0.58	0.239	0.166	0.277
	9/22/2020	2.17	0.527	0.264	0.227	0.422
	9/22/2020	2.09	N/A	N/A	N/A	N/A
	5/18/2021	2.03	0.509	0.275	0.185	0.361
	5/18/2021	2.31	N/A	N/A	N/A	N/A
	9/14/2021	2.3	0.521	0.165	0.201	0.433
	4/26/2022	2.62	0.525	0.138	0.257	0.429
	4/26/2022	N/A	N/A	0.139	N/A	N/A
	9/13/2022	2.28	0.506	N/A	0.188	0.437
	9/13/2022	N/A	N/A	N/A	0.213	N/A
	3/21/2023	2.36	0.527	0.13	0.145	0.359
	8/15/2023	2.33	0.508	0.153	0.14	0.438
	5/7/2024	2.8	0.52	0.183	0.135	0.328
	11/5/2024	2.63	0.515	N/A	0.177	0.477

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Beryllium, mg/L (CAS NO - 7440-41-7)	7/31/2009	N/A	N/A	N/A	N/A	< 0.001
	9/3/2009	< 0.001	< 0.001	N/A	N/A	< 0.001
	12/16/2009	0.00508	< 0.001	N/A	N/A	< 0.001
	12/16/2009	N/A	N/A	N/A	N/A	< 0.001
	3/15/2010	0.00218	< 0.001	N/A	N/A	< 0.001
	3/15/2010	N/A	N/A	N/A	N/A	< 0.001
	6/30/2010	0.00188	< 0.001	N/A	N/A	< 0.001
	6/30/2010	N/A	N/A	N/A	N/A	< 0.001
	9/2/2010	0.00159	< 0.001	N/A	N/A	< 0.001
	3/8/2011	< 0.001	0.00163	N/A	N/A	< 0.001
	9/14/2011	0.00144	< 0.001	N/A	N/A	< 0.001
	3/22/2012	< 0.001	< 0.001	N/A	N/A	< 0.001
	8/20/2012	< 0.001	< 0.001	N/A	N/A	< 0.001
	3/19/2013	< 0.001	< 0.001	N/A	N/A	< 0.001
	7/17/2013	N/A	N/A	0.00608	0.00311	N/A
	8/22/2013	0.00514	0.00633	0.00254	0.00434	0.00528
	8/22/2013	N/A	N/A	0.00349	N/A	N/A
	10/30/2013	N/A	N/A	0.0074	0.0053	N/A
	2/11/2014	N/A	N/A	0.00576	0.00384	N/A
	3/4/2014	0.00159	0.00177	0.00112	0.00157	0.000248
	3/4/2014	N/A	N/A	N/A	0.00183	N/A
	10/28/2014	0.00147	0.00115	0.00112	0.00133	< 0.001
	4/7/2015	< 0.003	< 0.001	0.000357	0.000487	< 0.001
	7/28/2015	N/A	N/A	< 0.005	0.000055*	N/A
	9/22/2015	< 0.001	0.000084*	< 0.001	< 0.001	< 0.001
	9/22/2015	N/A	N/A	N/A	< 0.001	N/A
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	7/13/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	7/13/2016	N/A	N/A	N/A	N/A	< 0.001
	4/5/2017	< 0.001	< 0.001	< 0.001	0.000128*	< 0.001
	9/19/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/19/2017	N/A	< 0.001	N/A	N/A	N/A
	3/5/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/7/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/7/2018	N/A	N/A	N/A	N/A	< 0.001
	3/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/19/2019	N/A	N/A	< 0.001	N/A	N/A
	8/27/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/27/2019	N/A	N/A	N/A	N/A	< 0.001
	3/3/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	< 0.001	0.000621*	< 0.001	< 0.001
	9/22/2020	< 0.001	N/A	N/A	N/A	N/A
	5/18/2021	< 0.001	< 0.001	0.000889*	< 0.001	< 0.001
	5/18/2021	< 0.001	N/A	N/A	N/A	N/A
	9/14/2021	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001
	4/26/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/26/2022	N/A	N/A	< 0.001	N/A	N/A
	9/13/2022	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	9/13/2022	N/A	N/A	N/A	< 0.001	N/A
	3/21/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/15/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/7/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	11/5/2024	< 0.001	< 0.001	N/A	< 0.001	< 0.001

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Cadmium, mg/L (CAS NO - 7440-43-9)	7/31/2009	N/A	N/A	N/A	N/A	0.000559
	9/3/2009	0.000776	0.00436	N/A	N/A	0.00664
	12/16/2009	0.00268	0.00268	N/A	N/A	0.00161
	12/16/2009	N/A	N/A	N/A	N/A	0.00256
	3/15/2010	0.00218	< 0.0005	N/A	N/A	0.00183
	3/15/2010	N/A	N/A	N/A	N/A	< 0.0005
	6/30/2010	0.00234	< 0.0005	N/A	N/A	< 0.0005
	6/30/2010	N/A	N/A	N/A	N/A	< 0.0005
	9/2/2010	0.00243	< 0.0005	N/A	N/A	0.00155
	3/8/2011	0.00137	< 0.0005	N/A	N/A	< 0.0005
	9/14/2011	0.0062	0.00137	N/A	N/A	0.000721
	3/22/2012	0.00569	< 0.0005	N/A	N/A	0.000671
	8/20/2012	0.00666	< 0.0005	N/A	N/A	0.00121
	3/19/2013	0.0217	< 0.0005	N/A	N/A	0.00374
	7/17/2013	N/A	N/A	0.00124	0.000546	N/A
	8/22/2013	0.00918	0.00226	0.0013	0.00212	0.005
	8/22/2013	N/A	N/A	0.00122	N/A	N/A
	10/30/2013	N/A	N/A	0.0018	0.00235	N/A
	2/11/2014	N/A	N/A	0.00183	0.00275	N/A
	3/4/2014	0.0111	0.000668	0.000779	0.00328	0.000455
	3/4/2014	N/A	N/A	N/A	0.00198	N/A
	10/28/2014	0.0127	0.00101	0.000664	0.000885	0.000915
	4/7/2015	0.00134	0.000134	0.000231	0.000516	0.000118
	7/28/2015	N/A	N/A	< 0.0025	< 0.0005	N/A
	9/22/2015	0.000148*	< 0.0005	0.00014*	0.00044*	< 0.0005
	9/22/2015	N/A	N/A	N/A	< 0.0005	N/A
	3/29/2016	0.000083*	< 0.0005	< 0.0005	0.00007*	< 0.0005
	7/13/2016	0.000083*	< 0.0005	< 0.0005	0.000045*	< 0.0005
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0005
	4/5/2017	0.000061*	< 0.0005	< 0.0005	0.000144*	< 0.0005
	9/19/2017	0.000076*	0.000478*	0.000045*	0.000187*	0.000139*
	9/19/2017	N/A	0.00017*	N/A	N/A	N/A
	3/5/2018	0.000124*	0.000063*	< 0.0005	< 0.0005	< 0.0005
	8/7/2018	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	8/7/2018	N/A	N/A	N/A	N/A	< 0.0005
	3/19/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	3/19/2019	N/A	N/A	< 0.0005	N/A	N/A
	8/27/2019	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	8/27/2019	N/A	N/A	N/A	N/A	< 0.0001
	3/3/2020	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000064*
	9/22/2020	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	9/22/2020	< 0.0001	N/A	N/A	N/A	N/A
	5/18/2021	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	5/18/2021	< 0.0001	N/A	N/A	N/A	N/A
	9/14/2021	< 0.0004	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	4/26/2022	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	4/26/2022	N/A	N/A	< 0.0001	N/A	N/A
	9/13/2022	< 0.0001	< 0.0001	N/A	< 0.0001	< 0.0001
	9/13/2022	N/A	N/A	N/A	0.000061*	N/A
	3/21/2023	**0.000108**	< 0.0001	< 0.0001	< 0.0001	0.000068*
	8/15/2023	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.000145*
	5/7/2024	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	11/5/2024	< 0.0002	< 0.0002	N/A	**0.000295**	< 0.0002

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Chromium, mg/L (CAS NO - 7440-47-3)	7/31/2009	N/A	N/A	N/A	N/A	< 0.02
	9/3/2009	< 0.02	< 0.02	N/A	N/A	< 0.02
	12/16/2009	< 0.02	< 0.02	N/A	N/A	< 0.02
	12/16/2009	N/A	N/A	N/A	N/A	< 0.02
	3/15/2010	< 0.02	< 0.02	N/A	N/A	< 0.02
	3/15/2010	N/A	N/A	N/A	N/A	< 0.02
	6/30/2010	< 0.02	< 0.02	N/A	N/A	< 0.02
	6/30/2010	N/A	N/A	N/A	N/A	< 0.02
	9/2/2010	0.0235	< 0.02	N/A	N/A	< 0.02
	3/8/2011	< 0.02	< 0.02	N/A	N/A	< 0.02
	9/14/2011	< 0.02	< 0.02	N/A	N/A	< 0.02
	3/22/2012	0.0222	< 0.02	N/A	N/A	< 0.02
	8/20/2012	< 0.02	< 0.02	N/A	N/A	< 0.02
	3/19/2013	< 0.02	< 0.02	N/A	N/A	< 0.02
	7/17/2013	N/A	N/A	< 0.02	< 0.02	N/A
	8/22/2013	0.00696	0.0128	0.0105	0.004	0.0149
	8/22/2013	N/A	N/A	0.0054	N/A	N/A
	10/30/2013	N/A	N/A	0.00656	0.0093	N/A
	2/11/2014	N/A	N/A	< 0.02	< 0.02	N/A
	3/4/2014	0.00734	0.00423	0.00359	0.00426	< 0.02
	3/4/2014	N/A	N/A	N/A	0.00367	N/A
	10/28/2014	< 0.02	0.00561	0.00504	0.00492	< 0.02
	4/7/2015	< 0.015	< 0.005	0.00201	0.00211	< 0.005
	7/28/2015	N/A	N/A	< 0.025	< 0.005	N/A
	9/22/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2015	N/A	N/A	N/A	< 0.005	N/A
	3/29/2016	< 0.005	< 0.005	< 0.005	0.000387*	< 0.005
	7/13/2016	0.000418*	< 0.005	< 0.005	0.000676*	< 0.005
	7/13/2016	N/A	N/A	N/A	N/A	< 0.005
	4/5/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/19/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/19/2017	N/A	< 0.005	N/A	N/A	N/A
	3/5/2018	< 0.005	0.000773*	< 0.005	< 0.005	< 0.005
	8/7/2018	< 0.005	< 0.005	< 0.005	0.00107*	< 0.005
	8/7/2018	N/A	N/A	N/A	N/A	< 0.005
	3/19/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/19/2019	N/A	N/A	< 0.005	N/A	N/A
	8/27/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/27/2019	N/A	N/A	N/A	N/A	< 0.005
	3/3/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2020	< 0.005	0.00114*	< 0.005	0.00129*	< 0.005
	9/22/2020	< 0.005	N/A	N/A	N/A	N/A
	5/18/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/18/2021	< 0.005	N/A	N/A	N/A	N/A
	9/14/2021	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005
	4/26/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/26/2022	N/A	N/A	< 0.005	N/A	N/A
	9/13/2022	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	9/13/2022	N/A	N/A	N/A	< 0.005	N/A
	3/21/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/15/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/7/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	11/5/2024	< 0.005	< 0.005	N/A	< 0.005	< 0.005

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Cobalt, mg/L (CAS NO - 7440-48-4)	7/31/2009	N/A	N/A	N/A	N/A	< 0.02
	9/3/2009	< 0.02	< 0.02	N/A	N/A	< 0.02
	12/16/2009	0.036	< 0.02	N/A	N/A	< 0.02
	12/16/2009	N/A	N/A	N/A	N/A	< 0.02
	3/15/2010	0.0415	0.00527	N/A	N/A	0.00667
	3/15/2010	N/A	N/A	N/A	N/A	0.00538
	6/30/2010	0.019	0.00289	N/A	N/A	0.00663
	6/30/2010	N/A	N/A	N/A	N/A	0.00663
	9/2/2010	0.011	< 0.00155	N/A	N/A	< 0.00155
	3/8/2011	0.0285	0.011	N/A	N/A	0.00447
	9/14/2011	0.0162	< 0.00155	N/A	N/A	0.00584
	3/22/2012	0.0296	0.00576	N/A	N/A	0.0107
	8/20/2012	0.0134	< 0.00155	N/A	N/A	0.00493
	3/19/2013	0.0449	0.00797	N/A	N/A	0.00876
	7/17/2013	N/A	N/A	0.0302	0.0112	N/A
	8/22/2013	0.0622	0.0396	0.0197	0.0347	0.054
	8/22/2013	N/A	N/A	0.0157	N/A	N/A
	10/30/2013	N/A	N/A	0.0549	0.036	N/A
	2/11/2014	N/A	N/A	0.0225	0.0125	N/A
	3/4/2014	0.0471	0.0129	0.0123	0.00626	0.00455
	3/4/2014	N/A	N/A	N/A	0.00757	N/A
	10/28/2014	0.0614	0.0137	0.0124	0.00872	0.00728
	4/7/2015	0.0289	0.00362	0.00758	0.00888	0.00541
	7/28/2015	N/A	N/A	0.00125*	**0.0146**	N/A
	9/22/2015	**0.0204**	**0.00168**	**0.00127**	**0.0165**	**0.00447**
	9/22/2015	N/A	N/A	N/A	**0.0183**	N/A
	3/29/2016	**0.0178**	**0.00182**	**0.00116**	**0.00054**	**0.00455**
	7/13/2016	**0.0172**	**0.000953**	**0.000968**	**0.000779**	**0.00405**
	7/13/2016	N/A	N/A	N/A	N/A	**0.00383**
	4/5/2017	**0.0218**	**0.0012**	**0.00135**	**0.00947**	**0.00449**
	9/19/2017	**0.019**	**0.00245**	**0.0127**	**0.00539**	**0.00339**
	9/19/2017	N/A	**0.00226**	N/A	N/A	N/A
	3/5/2018	**0.0235**	**0.00299**	**0.00346**	**0.0146**	**0.00341**
	8/7/2018	**0.0325**	**0.00479**	**0.0111**	**0.00581**	**0.00291**
	8/7/2018	N/A	N/A	N/A	N/A	**0.00296**
	3/19/2019	**0.028**	**0.00116**	**0.0233**	**0.0217**	**0.00364**
	3/19/2019	N/A	N/A	**0.0282**	N/A	N/A
	8/27/2019	**0.0223**	**0.00179**	**0.0151**	**0.00978**	**0.00436**
	8/27/2019	N/A	N/A	N/A	N/A	**0.00394**
	3/3/2020	**0.0268**	**0.00154**	**0.0334**	**0.0178**	**0.00223**
	9/22/2020	**0.0239**	**0.00102**	**0.0185**	**0.0275**	**0.00339**
	9/22/2020	**0.0242**	N/A	N/A	N/A	N/A
	5/18/2021	**0.0275**	**0.0012**	**0.0211**	**0.0118**	**0.00315**
	5/18/2021	**0.0272**	N/A	N/A	N/A	N/A
	9/14/2021	**0.0334**	**0.00407**	**0.0229**	**0.0121**	**0.00286**
	4/26/2022	**0.0294**	**0.00165**	**0.0157**	**0.0255**	**0.00304**
	4/26/2022	N/A	N/A	**0.016**	N/A	N/A
	9/13/2022	**0.0333**	**0.0012**	N/A	**0.0156**	**0.00444**
	9/13/2022	N/A	N/A	N/A	**0.0137**	N/A
	3/21/2023	**0.0253**	**0.00139**	**0.0115**	**0.0168**	**0.00135**
	8/15/2023	**0.0297**	**0.00278**	**0.0175**	**0.0133**	**0.00423**
	5/7/2024	**0.0263**	**0.000702**	**0.0126**	**0.00899**	0.000457*
	11/5/2024	**0.0316**	**0.00505**	N/A	**0.00634**	**0.00426**

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Copper, mg/L (CAS NO - 7440-50-8)	7/31/2009	N/A	N/A	N/A	N/A	< 0.02
	9/3/2009	< 0.02	< 0.02	N/A	N/A	< 0.02
	12/16/2009	0.0488	< 0.02	N/A	N/A	< 0.02
	12/16/2009	N/A	N/A	N/A	N/A	< 0.02
	3/15/2010	0.0285	< 0.02	N/A	N/A	< 0.02
	3/15/2010	N/A	N/A	N/A	N/A	< 0.02
	6/30/2010	0.0469	< 0.02	N/A	N/A	< 0.02
	6/30/2010	N/A	N/A	N/A	N/A	< 0.02
	9/2/2010	0.0589	< 0.02	N/A	N/A	< 0.02
	3/8/2011	0.0233	< 0.02	N/A	N/A	< 0.02
	9/14/2011	0.0542	< 0.02	N/A	N/A	< 0.02
	3/22/2012	0.0806	< 0.02	N/A	N/A	< 0.02
	8/20/2012	0.0494	< 0.02	N/A	N/A	< 0.02
	3/19/2013	0.0459	< 0.02	N/A	N/A	< 0.02
	7/17/2013	N/A	N/A	0.0428	< 0.02	N/A
	8/22/2013	0.0588	0.0055	0.0561	0.00907	0.00583
	8/22/2013	N/A	N/A	0.0368	N/A	N/A
	10/30/2013	N/A	N/A	0.0162	0.00718	N/A
	2/11/2014	N/A	N/A	0.0288	0.00336	N/A
	3/4/2014	0.0425	0.00316	0.0158	0.0121	0.0045
	3/4/2014	N/A	N/A	N/A	0.012	N/A
	5/21/2014	N/A	N/A	0.0169	N/A	N/A
	10/28/2014	0.0421	0.0111	0.0304	< 0.02	0.0149
	4/7/2015	0.0253	0.000511	0.014	0.0109	< 0.002
	7/28/2015	N/A	N/A	< 0.01	0.00143*	N/A
	9/22/2015	0.0012*	0.000945*	< 0.002	0.00187*	< 0.002
	9/22/2015	N/A	N/A	N/A	**0.00247**	N/A
	3/29/2016	< 0.005	< 0.005	< 0.005	0.00343*	< 0.005
	7/13/2016	< 0.005	< 0.005	< 0.005	0.00378*	< 0.005
	7/13/2016	N/A	N/A	N/A	N/A	< 0.005
	4/5/2017	< 0.005	< 0.005	< 0.005	0.00293*	< 0.005
	9/19/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/19/2017	N/A	< 0.005	N/A	N/A	N/A
	3/5/2018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/7/2018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/7/2018	N/A	N/A	N/A	N/A	< 0.005
	3/19/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/19/2019	N/A	N/A	< 0.005	N/A	N/A
	8/27/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/27/2019	N/A	N/A	N/A	N/A	< 0.005
	3/3/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2020	< 0.005	N/A	N/A	N/A	N/A
	5/18/2021	< 0.005	< 0.005	0.00456*	< 0.005	< 0.005
	5/18/2021	< 0.005	N/A	N/A	N/A	N/A
	9/14/2021	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005
	4/26/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/26/2022	N/A	N/A	< 0.005	N/A	N/A
	9/13/2022	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	9/13/2022	N/A	N/A	N/A	< 0.005	N/A
	3/21/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/15/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/7/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	11/5/2024	< 0.005	< 0.005	N/A	< 0.005	< 0.005

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Lead, mg/L (CAS NO - 7439-92-1)	7/31/2009	N/A	N/A	N/A	N/A	< 0.004
	9/3/2009	0.0061	0.00785	N/A	N/A	< 0.004
	12/16/2009	0.0302	0.0108	N/A	N/A	< 0.004
	12/16/2009	N/A	N/A	N/A	N/A	< 0.004
	3/15/2010	0.0322	0.00985	N/A	N/A	< 0.004
	3/15/2010	N/A	N/A	N/A	N/A	< 0.004
	6/30/2010	0.0223	< 0.004	N/A	N/A	< 0.004
	6/30/2010	N/A	N/A	N/A	N/A	< 0.004
	9/2/2010	0.0203	< 0.004	N/A	N/A	< 0.004
	3/8/2011	0.00878	0.0134	N/A	N/A	< 0.004
	9/14/2011	0.0244	< 0.004	N/A	N/A	< 0.004
	3/22/2012	0.0113	0.0107	N/A	N/A	< 0.004
	8/20/2012	0.00436	< 0.004	N/A	N/A	< 0.004
	3/19/2013	0.0143	< 0.004	N/A	N/A	< 0.004
	7/17/2013	N/A	N/A	< 0.004	< 0.004	N/A
	8/22/2013	0.0164	0.0163	0.0147	0.0158	0.00231
	8/22/2013	N/A	N/A	0.0155	N/A	N/A
	10/30/2013	N/A	N/A	0.0386	0.0303	N/A
	2/11/2014	N/A	N/A	0.0217	0.0155	N/A
	3/4/2014	0.00585	0.0144	0.00907	0.0148	0.00105
	3/4/2014	N/A	N/A	N/A	0.0147	N/A
	5/21/2014	N/A	N/A	N/A	0.00948	N/A
	10/28/2014	0.00762	0.0191	0.0136	0.0088	0.00375
	4/7/2015	0.0047	0.000294	0.00743	0.0106	0.000101
	7/28/2015	N/A	N/A	< 0.0025	0.000305*	N/A
	9/22/2015	0.000273*	**0.00144**	< 0.0005	0.000103*	< 0.0005
	9/22/2015	N/A	N/A	N/A	0.000226*	N/A
	3/29/2016	< 0.0005	< 0.0005	< 0.0005	**0.00102**	< 0.0005
	7/13/2016	< 0.0005	< 0.0005	< 0.0005	**0.00126**	< 0.0005
	7/13/2016	N/A	N/A	N/A	N/A	< 0.0005
	4/5/2017	< 0.0005	< 0.0005	< 0.0005	**0.000671**	< 0.0005
	9/19/2017	0.000349*	< 0.0005	**0.000686**	**0.00149**	< 0.0005
	9/19/2017	N/A	< 0.0005	N/A	N/A	N/A
	3/5/2018	< 0.0005	**0.000546**	< 0.0005	**0.000702**	< 0.0005
	8/7/2018	< 0.0005	< 0.0005	0.000475*	**0.000891**	< 0.0005
	8/7/2018	N/A	N/A	N/A	N/A	< 0.0005
	3/19/2019	< 0.0005	< 0.0005	0.000417*	< 0.0005	< 0.0005
	3/19/2019	N/A	N/A	< 0.0005	N/A	N/A
	8/27/2019	< 0.0005	< 0.0005	**0.00072**	< 0.0005	0.000417*
	8/27/2019	N/A	N/A	N/A	N/A	< 0.0005
	3/3/2020	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	9/22/2020	< 0.0005	< 0.0005	**0.000672**	0.000194*	< 0.0005
	9/22/2020	< 0.0005	N/A	N/A	N/A	N/A
	5/18/2021	< 0.0005	< 0.0005	**0.000944**	0.000295*	< 0.0005
	5/18/2021	< 0.0005	N/A	N/A	N/A	N/A
	9/14/2021	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	4/26/2022	< 0.002	< 0.0005	0.000415*	0.000302*	< 0.0005
	4/26/2022	N/A	N/A	0.000418*	N/A	N/A
	9/13/2022	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005
	9/13/2022	N/A	N/A	N/A	**0.00189**	N/A
	3/21/2023	< 0.0005	0.000343*	< 0.0005	**0.000541**	< 0.0005
	8/15/2023	0.000279*	**0.0006**	0.000258*	0.000388*	**0.000568**
	5/7/2024	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	11/5/2024	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Mercury, mg/L (CAS NO - 7439-97-6)	3/15/2010	N/A	N/A	N/A	N/A	< 0.0002
	6/30/2010	0.00743	< 0.0002	N/A	N/A	N/A
	9/14/2011	0.000348	< 0.0002	N/A	N/A	< 0.0002
	7/17/2013	0.00213	N/A	N/A	N/A	N/A
	8/22/2013	0.00105	N/A	N/A	N/A	N/A
	3/4/2014	0.00029	N/A	N/A	N/A	N/A
	10/28/2014	0.00292	N/A	N/A	N/A	N/A
	4/7/2015	0.000112	N/A	< 0.0002	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0002	N/A
	9/22/2015	0.00011*	N/A	N/A	N/A	N/A
	3/29/2016	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002
	7/13/2016	< 0.0002	N/A	N/A	< 0.0002	N/A
	4/5/2017	< 0.0002	N/A	N/A	N/A	N/A
	9/19/2017	< 0.0002	N/A	N/A	N/A	N/A
	3/5/2018	< 0.0002	N/A	N/A	N/A	N/A
	8/7/2018	< 0.0002	N/A	N/A	N/A	N/A
	3/19/2019	< 0.0002	N/A	N/A	N/A	N/A
	5/18/2021	< 0.0002	< 0.0004	< 0.0002	< 0.0002	< 0.0002
Nickel, mg/L (CAS NO - 7440-02-0)	7/31/2009	N/A	N/A	N/A	N/A	< 0.05
	9/3/2009	< 0.05	< 0.05	N/A	N/A	< 0.05
	12/16/2009	0.0831	< 0.05	N/A	N/A	< 0.05
	12/16/2009	N/A	N/A	N/A	N/A	< 0.05
	3/15/2010	0.126	< 0.05	N/A	N/A	< 0.05
	3/15/2010	N/A	N/A	N/A	N/A	< 0.05
	6/30/2010	0.0581	< 0.05	N/A	N/A	< 0.05
	6/30/2010	N/A	N/A	N/A	N/A	< 0.05
	9/2/2010	< 0.05	< 0.05	N/A	N/A	< 0.05
	3/8/2011	0.0674	< 0.05	N/A	N/A	< 0.05
	9/14/2011	0.0513	< 0.05	N/A	N/A	< 0.05
	3/22/2012	0.0608	< 0.05	N/A	N/A	< 0.05
	8/20/2012	< 0.05	< 0.05	N/A	N/A	< 0.05
	3/19/2013	0.0712	< 0.05	N/A	N/A	< 0.05
	7/17/2013	N/A	N/A	< 0.05	< 0.05	N/A
	8/22/2013	0.0771	0.0576	0.0323	0.0635	0.091
	8/22/2013	N/A	N/A	0.0287	N/A	N/A
	10/30/2013	N/A	N/A	0.0731	0.0768	N/A
	2/11/2014	N/A	N/A	0.0386	0.0253	N/A
	3/4/2014	0.0572	0.0215	0.0343	0.0212	0.0119
	3/4/2014	N/A	N/A	N/A	0.0227	N/A
	5/21/2014	N/A	N/A	0.0422	N/A	N/A
	10/28/2014	0.0833	0.0211	0.0235	0.0146	0.0132
	4/7/2015	0.0433	0.00681	0.0178	0.0148	0.00687
	7/28/2015	N/A	N/A	< 0.025	**0.0157**	N/A
	9/22/2015	**0.0426**	0.00371*	0.00169*	**0.0184**	**0.00637**
	9/22/2015	N/A	N/A	N/A	**0.017**	N/A
	3/29/2016	**0.0297**	0.00413*	0.00157*	0.00323*	**0.00566**
	7/13/2016	**0.0358**	0.00224*	< 0.005	0.00402*	**0.00564**
	7/13/2016	N/A	N/A	N/A	N/A	**0.00529**
	4/5/2017	**0.0352**	0.00279*	0.00166*	**0.0154**	**0.00727**
	9/19/2017	**0.0306**	**0.00555**	**0.0218**	**0.0055**	0.00216*
	9/19/2017	N/A	**0.00508**	N/A	N/A	N/A
	3/5/2018	**0.0316**	**0.00601**	**0.00544**	**0.0156**	0.00462*
	8/7/2018	**0.0415**	**0.00839**	**0.0147**	**0.00786**	0.00185*
	8/7/2018	N/A	N/A	N/A	N/A	0.00181*

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Nickel, mg/L (CAS NO - 7440-02-0)	3/19/2019	**0.0393**	0.00234*	**0.0202**	**0.0197**	0.00435*
	3/19/2019	N/A	N/A	**0.0249**	N/A	N/A
	8/27/2019	**0.0349**	0.00329*	**0.0156**	**0.0096**	0.00396*
	8/27/2019	N/A	N/A	N/A	N/A	0.00375*
	3/3/2020	**0.0385**	0.00315*	**0.0196**	**0.0122**	0.00417*
	9/22/2020	**0.0382**	0.00245*	**0.015**	**0.0456**	0.0026*
	9/22/2020	**0.0376**	N/A	N/A	N/A	N/A
	5/18/2021	**0.0367**	< 0.005	**0.0155**	**0.00905**	0.00239*
	5/18/2021	**0.0376**	N/A	N/A	N/A	N/A
	9/14/2021	**0.0392**	**0.00533**	0.00437*	**0.0103**	0.00219*
	4/26/2022	**0.0375**	< 0.005	0.00468*	**0.0174**	0.00426*
	4/26/2022	N/A	N/A	0.00486*	N/A	N/A
	9/13/2022	**0.0349**	0.00199*	N/A	**0.0206**	0.00446*
	9/13/2022	N/A	N/A	N/A	**0.0191**	N/A
	3/21/2023	**0.0315**	0.00218*	0.00476*	**0.0135**	**0.00624**
	8/15/2023	**0.0393**	0.00313*	0.00192*	**0.00804**	0.003*
	5/7/2024	**0.0345**	< 0.005	< 0.005	**0.00717**	0.00266*
	11/5/2024	**0.0405**	**0.00658**	N/A	**0.00939**	0.00465*
Selenium, mg/L (CAS NO - 7782-49-2)	7/31/2009	N/A	N/A	N/A	N/A	< 0.005
	9/3/2009	< 0.005	< 0.005	N/A	N/A	< 0.005
	12/16/2009	< 0.005	< 0.005	N/A	N/A	< 0.005
	12/16/2009	N/A	N/A	N/A	N/A	< 0.005
	3/15/2010	< 0.005	< 0.005	N/A	N/A	< 0.005
	3/15/2010	N/A	N/A	N/A	N/A	< 0.005
	6/30/2010	< 0.005	< 0.005	N/A	N/A	< 0.005
	6/30/2010	N/A	N/A	N/A	N/A	< 0.005
	9/2/2010	< 0.005	< 0.005	N/A	N/A	< 0.005
	3/8/2011	< 0.005	< 0.005	N/A	N/A	< 0.005
	9/14/2011	< 0.005	< 0.005	N/A	N/A	< 0.005
	3/22/2012	< 0.005	< 0.005	N/A	N/A	< 0.005
	8/20/2012	< 0.005	< 0.005	N/A	N/A	< 0.005
	3/19/2013	< 0.005	< 0.005	N/A	N/A	< 0.005
	7/17/2013	N/A	N/A	< 0.005	< 0.005	N/A
	8/22/2013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/22/2013	N/A	N/A	< 0.005	N/A	N/A
	10/30/2013	N/A	N/A	< 0.005	< 0.005	N/A
	2/11/2014	N/A	N/A	0.00276	0.00281	N/A
	3/4/2014	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/4/2014	N/A	N/A	N/A	< 0.005	N/A
	10/28/2014	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/7/2015	< 0.015	< 0.005	< 0.005	< 0.005	< 0.005
	7/28/2015	N/A	N/A	< 0.025	< 0.005	N/A
	9/22/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2015	N/A	N/A	N/A	< 0.005	N/A
	3/29/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	7/13/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	7/13/2016	N/A	N/A	N/A	N/A	< 0.005
	4/5/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/19/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/19/2017	N/A	< 0.005	N/A	N/A	N/A
	3/5/2018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/7/2018	< 0.005	0.000918*	< 0.005	< 0.005	< 0.005
	8/7/2018	N/A	N/A	N/A	N/A	< 0.005
	3/19/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/19/2019	N/A	N/A	< 0.005	N/A	N/A

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Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Selenium, mg/L (CAS NO - 7782-49-2)	8/27/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/27/2019	N/A	N/A	N/A	N/A	< 0.005
	3/3/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/22/2020	< 0.005	N/A	N/A	N/A	N/A
	5/18/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/18/2021	< 0.005	N/A	N/A	N/A	N/A
	9/14/2021	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005
	4/26/2022	< 0.005	< 0.005	< 0.005	< 0.005	0.00125*
	4/26/2022	N/A	N/A	< 0.005	N/A	N/A
	9/13/2022	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	9/13/2022	N/A	N/A	N/A	< 0.005	N/A
	3/21/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/15/2023	< 0.005	< 0.005	< 0.005	< 0.005	0.00141*
	5/7/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	11/5/2024	< 0.005	< 0.005	N/A	< 0.005	< 0.005
Silver, mg/L (CAS NO - 7440-22-4)	7/31/2009	N/A	N/A	N/A	N/A	< 0.02
	9/3/2009	< 0.02	< 0.02	N/A	N/A	< 0.02
	12/16/2009	< 0.02	< 0.02	N/A	N/A	< 0.02
	12/16/2009	N/A	N/A	N/A	N/A	< 0.02
	3/15/2010	< 0.02	< 0.02	N/A	N/A	< 0.02
	3/15/2010	N/A	N/A	N/A	N/A	< 0.02
	6/30/2010	< 0.02	< 0.02	N/A	N/A	< 0.02
	6/30/2010	N/A	N/A	N/A	N/A	< 0.02
	9/2/2010	< 0.02	< 0.02	N/A	N/A	< 0.02
	3/8/2011	< 0.02	< 0.02	N/A	N/A	< 0.02
	9/14/2011	< 0.02	< 0.02	N/A	N/A	< 0.02
	3/22/2012	< 0.02	< 0.02	N/A	N/A	< 0.02
	8/20/2012	< 0.02	< 0.02	N/A	N/A	< 0.02
	3/19/2013	< 0.02	< 0.02	N/A	N/A	< 0.02
	7/17/2013	N/A	N/A	< 0.02	< 0.02	N/A
	8/22/2013	0.00517	0.0062	0.006	0.00636	0.00572
	8/22/2013	N/A	N/A	0.00603	N/A	N/A
	10/30/2013	N/A	N/A	< 0.02	< 0.02	N/A
	2/11/2014	N/A	N/A	< 0.02	< 0.02	N/A
	3/4/2014	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	3/4/2014	N/A	N/A	N/A	< 0.02	N/A
	10/28/2014	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	4/7/2015	< 0.003	< 0.001	0.000052	< 0.001	< 0.001
	7/28/2015	N/A	N/A	0.000215*	< 0.001	N/A
	9/22/2015	< 0.001	< 0.001	< 0.001	< 0.001	0.000051*
	9/22/2015	N/A	N/A	N/A	< 0.001	N/A
	3/29/2016	0.000168*	0.000193*	< 0.001	< 0.001	< 0.001
	7/13/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	7/13/2016	N/A	N/A	N/A	N/A	< 0.001
	4/5/2017	< 0.001	< 0.001	< 0.001	0.000168*	< 0.001
	9/19/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/19/2017	N/A	< 0.001	N/A	N/A	N/A
	3/5/2018	< 0.001	< 0.001	< 0.001	< 0.001	0.000196*
	8/7/2018	< 0.001	0.000321*	< 0.001	< 0.001	< 0.001
	8/7/2018	N/A	N/A	N/A	N/A	< 0.001
	3/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/19/2019	N/A	N/A	< 0.001	N/A	N/A
	8/27/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/27/2019	N/A	N/A	N/A	N/A	< 0.001

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Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Silver, mg/L (CAS NO - 7440-22-4)	3/3/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	N/A	N/A	N/A	N/A
	5/18/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/18/2021	< 0.001	N/A	N/A	N/A	N/A
	9/14/2021	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001
	4/26/2022	< 0.001	< 0.001	0.000594*	< 0.001	0.000775*
	4/26/2022	N/A	N/A	< 0.001	N/A	N/A
	9/13/2022	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	9/13/2022	N/A	N/A	N/A	< 0.001	N/A
	3/21/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/15/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/7/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	11/5/2024	< 0.001	< 0.001	N/A	< 0.001	< 0.001
Thallium, mg/L (CAS NO - 7440-28-0)	7/31/2009	N/A	N/A	N/A	N/A	< 0.002
	9/3/2009	< 0.002	< 0.002	N/A	N/A	< 0.002
	12/16/2009	< 0.002	< 0.002	N/A	N/A	< 0.002
	12/16/2009	N/A	N/A	N/A	N/A	< 0.002
	3/15/2010	< 0.002	< 0.002	N/A	N/A	< 0.002
	3/15/2010	N/A	N/A	N/A	N/A	< 0.002
	6/30/2010	< 0.002	< 0.002	N/A	N/A	< 0.002
	6/30/2010	N/A	N/A	N/A	N/A	< 0.002
	9/2/2010	< 0.002	< 0.002	N/A	N/A	< 0.002
	3/8/2011	< 0.002	< 0.002	N/A	N/A	< 0.002
	9/14/2011	< 0.002	< 0.002	N/A	N/A	< 0.002
	3/22/2012	< 0.002	< 0.002	N/A	N/A	< 0.002
	8/20/2012	< 0.002	< 0.002	N/A	N/A	< 0.002
	3/19/2013	< 0.002	< 0.002	N/A	N/A	< 0.002
	7/17/2013	N/A	N/A	< 0.002	< 0.002	N/A
	8/22/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	8/22/2013	N/A	N/A	< 0.002	N/A	N/A
	10/30/2013	N/A	N/A	< 0.002	< 0.002	N/A
	2/11/2014	N/A	N/A	< 0.002	< 0.002	N/A
	3/4/2014	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	3/4/2014	N/A	N/A	N/A	< 0.002	N/A
	10/28/2014	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	4/7/2015	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001
	7/28/2015	N/A	N/A	< 0.005	< 0.001	N/A
	9/22/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2015	N/A	N/A	N/A	< 0.001	N/A
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	7/13/2016	0.00004*	< 0.001	< 0.001	< 0.001	< 0.001
	7/13/2016	N/A	N/A	N/A	N/A	< 0.001
	4/5/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/19/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/19/2017	N/A	< 0.001	N/A	N/A	N/A
	3/5/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/7/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/7/2018	N/A	N/A	N/A	N/A	< 0.001
	3/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/19/2019	N/A	N/A	< 0.001	N/A	N/A
	8/27/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/27/2019	N/A	N/A	N/A	N/A	< 0.001
	3/3/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Thallium, mg/L (CAS NO - 7440-28-0)	9/22/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/22/2020	< 0.001	N/A	N/A	N/A	N/A
	5/18/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/18/2021	< 0.001	N/A	N/A	N/A	N/A
	9/14/2021	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001
	4/26/2022	< 0.004	< 0.001	< 0.001	< 0.001	0.000373*
	4/26/2022	N/A	N/A	< 0.001	N/A	N/A
	9/13/2022	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	9/13/2022	N/A	N/A	N/A	< 0.001	N/A
	3/21/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/15/2023	< 0.001	< 0.001	< 0.001	< 0.001	**0.00214**
	5/7/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	11/5/2024	< 0.001	< 0.001	N/A	< 0.001	< 0.001
Tin, mg/L (CAS NO - 7440-31-5)	3/15/2010	N/A	N/A	N/A	N/A	< 0.1
	6/30/2010	< 0.1	< 0.1	N/A	N/A	N/A
	9/14/2011	< 0.1	< 0.1	N/A	N/A	< 0.1
	4/7/2015	N/A	N/A	< 0.1	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.005	N/A
	3/29/2016	0.0011*	< 0.005	< 0.005	N/A	< 0.005
	7/13/2016	N/A	N/A	N/A	< 0.005	N/A
	5/18/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium, mg/L (CAS NO - 7440-62-2)	7/31/2009	N/A	N/A	N/A	N/A	< 0.05
	9/3/2009	< 0.05	< 0.05	N/A	N/A	< 0.05
	12/16/2009	< 0.05	< 0.05	N/A	N/A	< 0.05
	12/16/2009	N/A	N/A	N/A	N/A	< 0.05
	3/15/2010	< 0.05	< 0.05	N/A	N/A	< 0.05
	3/15/2010	N/A	N/A	N/A	N/A	< 0.05
	6/30/2010	< 0.05	< 0.05	N/A	N/A	< 0.05
	6/30/2010	N/A	N/A	N/A	N/A	< 0.05
	9/2/2010	< 0.05	< 0.05	N/A	N/A	< 0.05
	3/8/2011	< 0.05	< 0.05	N/A	N/A	< 0.05
	9/14/2011	< 0.05	< 0.05	N/A	N/A	< 0.05
	3/22/2012	0.0693	< 0.05	N/A	N/A	< 0.05
	8/20/2012	< 0.05	< 0.05	N/A	N/A	< 0.05
	3/19/2013	< 0.05	< 0.05	N/A	N/A	< 0.05
	7/17/2013	N/A	N/A	< 0.05	< 0.05	N/A
	8/22/2013	0.0978	0.0701	0.0277	0.0592	0.108
	8/22/2013	N/A	N/A	0.033	N/A	N/A
	10/30/2013	N/A	N/A	0.0493	0.0672	N/A
	2/11/2014	N/A	N/A	0.0239	0.0275	N/A
	3/4/2014	0.023	0.0193	0.00998	0.0147	0.0045
	3/4/2014	N/A	N/A	N/A	0.0154	N/A
	10/28/2014	0.029	0.0197	0.0214	0.0218	0.00752
	4/7/2015	0.00501	0.000879	0.00913	0.0111	< 0.005
	7/28/2015	N/A	N/A	< 0.025	0.00102*	N/A
	9/22/2015	0.00072*	0.00276*	< 0.005	0.000893*	0.000533*
	9/22/2015	N/A	N/A	N/A	0.000761*	N/A
	3/29/2016	< 0.005	0.000464*	< 0.005	0.00109*	< 0.005
	7/13/2016	0.000459*	0.000583*	< 0.005	0.00158*	< 0.005
	7/13/2016	N/A	N/A	N/A	N/A	0.000262*
	4/5/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/19/2017	< 0.005	< 0.005	< 0.005	0.000929*	< 0.005
	9/19/2017	N/A	< 0.005	N/A	N/A	N/A
	3/5/2018	< 0.005	0.00165*	< 0.005	0.000869*	< 0.005

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Summary of Groundwater Chemistry

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Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Vanadium, mg/L (CAS NO - 7440-62-2)	8/7/2018	< 0.005	0.000549*	0.000607*	0.00195*	0.000546*
	8/7/2018	N/A	N/A	N/A	N/A	0.000544*
	3/19/2019	< 0.005	< 0.005	< 0.005	0.00134*	< 0.005
	3/19/2019	N/A	N/A	< 0.005	N/A	N/A
	8/27/2019	< 0.005	< 0.005	0.000885*	0.000971*	< 0.005
	8/27/2019	N/A	N/A	N/A	N/A	< 0.005
	3/3/2020	< 0.005	< 0.005	< 0.005	0.00103*	< 0.005
	9/22/2020	< 0.005	< 0.005	< 0.005	0.000998*	< 0.005
	9/22/2020	< 0.005	N/A	N/A	N/A	N/A
	5/18/2021	< 0.005	< 0.005	0.00152*	0.00125*	< 0.005
	5/18/2021	< 0.005	N/A	N/A	N/A	N/A
	9/14/2021	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005
	4/26/2022	< 0.005	< 0.005	< 0.005	0.00395*	< 0.005
	4/26/2022	N/A	N/A	< 0.005	N/A	N/A
	9/13/2022	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	9/13/2022	N/A	N/A	N/A	0.00282*	N/A
	3/21/2023	< 0.005	< 0.005	< 0.005	0.00135*	< 0.005
	8/15/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/7/2024	< 0.005	< 0.005	< 0.005	0.00112*	< 0.005
	11/5/2024	< 0.005	< 0.005	N/A	0.00264*	< 0.005
Zinc, mg/L (CAS NO - 7440-66-6)	7/31/2009	N/A	N/A	N/A	N/A	0.074
	9/3/2009	0.0683	0.0891	N/A	N/A	0.0792
	12/16/2009	0.17	0.119	N/A	N/A	0.0784
	12/16/2009	N/A	N/A	N/A	N/A	0.0786
	3/15/2010	0.109	0.118	N/A	N/A	0.0813
	3/15/2010	N/A	N/A	N/A	N/A	0.0826
	6/30/2010	0.025	< 0.02	N/A	N/A	0.0472
	6/30/2010	N/A	N/A	N/A	N/A	0.0472
	9/2/2010	0.0922	0.0641	N/A	N/A	0.0656
	3/8/2011	0.0721	0.096	N/A	N/A	0.0982
	9/14/2011	< 0.02	< 0.02	N/A	N/A	< 0.02
	3/22/2012	0.0632	0.0241	N/A	N/A	< 0.02
	8/20/2012	0.0315	< 0.02	N/A	N/A	0.0206
	3/19/2013	0.096	0.058	N/A	N/A	0.0623
	7/17/2013	N/A	N/A	0.114	0.129	N/A
	8/22/2013	0.167	0.158	0.122	0.14	0.199
	8/22/2013	N/A	N/A	0.128	N/A	N/A
	10/30/2013	N/A	N/A	0.267	0.237	N/A
	2/11/2014	N/A	N/A	< 0.02	0.0118	N/A
	3/4/2014	< 0.02	< 0.02	< 0.02	0.0156	< 0.02
	3/4/2014	N/A	N/A	N/A	< 0.02	N/A
	10/28/2014	0.0349	< 0.02	0.0199	0.022	< 0.02
	4/7/2015	< 0.03	< 0.01	0.0117	0.0217	< 0.01
	7/28/2015	N/A	N/A	< 0.05	< 0.01	N/A
	9/22/2015	< 0.01	< 0.01	< 0.01	< 0.01	0.0508
	9/22/2015	N/A	N/A	N/A	< 0.01	N/A
	3/29/2016	< 0.01	0.00998*	< 0.01	< 0.01	< 0.01
	7/13/2016	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	7/13/2016	N/A	N/A	N/A	N/A	< 0.01
	4/5/2017	< 0.02	< 0.02	< 0.02	< 0.02	0.0167*
	9/19/2017	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/19/2017	N/A	< 0.02	N/A	N/A	N/A
	3/5/2018	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	8/7/2018	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	8/7/2018	N/A	N/A	N/A	N/A	< 0.02

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Zinc, mg/L (CAS NO - 7440-66-6)	3/19/2019	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	3/19/2019	N/A	N/A	< 0.02	N/A	N/A
	8/27/2019	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02
	8/27/2019	N/A	N/A	N/A	N/A	< 0.02
	3/3/2020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/22/2020	< 0.02	< 0.02	0.0139*	0.0102*	< 0.02
	9/22/2020	< 0.02	N/A	N/A	N/A	N/A
	5/18/2021	< 0.02	< 0.02	0.0144*	< 0.02	< 0.02
	5/18/2021	< 0.02	N/A	N/A	N/A	N/A
	9/14/2021	< 0.08	< 0.02	0.0131*	< 0.02	< 0.02
	4/26/2022	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	4/26/2022	N/A	N/A	< 0.02	N/A	N/A
	9/13/2022	< 0.02	< 0.02	N/A	< 0.02	< 0.02
	9/13/2022	N/A	N/A	N/A	< 0.02	N/A
	3/21/2023	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	8/15/2023	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	5/7/2024	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	11/5/2024	0.0102*	< 0.02	N/A	< 0.02	< 0.02
Total Suspended Solids, mg/L (CAS NO - TSS)	3/4/2014	1810	1690	573	1150	228
	3/4/2014	N/A	N/A	N/A	1210	N/A
	5/21/2014	N/A	N/A	9350	1630	N/A
	10/28/2014	3010	1420	1380	4350	370
	4/7/2015	90.7	110	1080	255	102
	7/28/2015	62.7	307	58.5	45.8	84.1
	7/28/2015	62.7	307	N/A	N/A	84.1
	9/22/2015	45.8	168	9.91	29.1	57
	9/22/2015	N/A	N/A	N/A	37.1	N/A
	3/29/2016	30.9	87.5	9.87	34.6	46.2
	7/13/2016	35.4	90.3	12.3	21	62.4
	7/13/2016	N/A	N/A	N/A	N/A	61.2
	11/18/2016	N/A	N/A	N/A	17.2	N/A
	3/7/2017	N/A	N/A	N/A	18.6	N/A
	4/5/2017	33.4	59.9	23	17	46.2
	9/19/2017	11.3	74.3	54.6	98.5	56
	9/19/2017	N/A	68.4	N/A	N/A	N/A
	3/5/2018	24.9	99.3	19.3	9	20.7
	8/7/2018	48.8	60.5	15.6	48.7	35
	8/7/2018	N/A	N/A	N/A	N/A	34
	3/19/2019	45.1	88.2	15.5	17.3	13.8
	3/19/2019	N/A	N/A	16	N/A	N/A
	8/27/2019	20	80.3	29.3	39	60
	8/27/2019	N/A	N/A	N/A	N/A	53
	3/3/2020	20	92	6.25	10.3	12
	9/22/2020	43	90	32.8	9.5	52
	9/22/2020	38	N/A	N/A	N/A	N/A
	5/18/2021	43.3	71.2	97.6	23	30
	5/18/2021	44	N/A	N/A	N/A	N/A
	9/14/2021	18.8	42.7	12.5	56.3	31.7

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Metals Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Total Suspended Solids, mg/L (CAS NO - TSS)	4/26/2022	**47**	**89**	**7.75**	**9**	**16**
	4/26/2022	N/A	N/A	**8.5**	N/A	N/A
	9/13/2022	**51**	**94**	N/A	**49.8**	**39**
	9/13/2022	N/A	N/A	N/A	**150**	N/A
	3/21/2023	**49.5**	**121**	**8**	**32**	**32.3**
	8/15/2023	**47**	**106**	**27**	**13.3**	**51**
	5/7/2024	**50**	**100**	**38**	**9**	**12**
	11/5/2024	**32**	**57**	N/A	**9.5**	**43**

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	N/A	N/A	N/A	N/A	< 5
	3/15/2010	< 1	< 1	N/A	N/A	< 2
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 2	< 2	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	N/A	N/A	N/A	N/A	< 10
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	0.211*	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 2
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	7/31/2009	N/A	N/A	N/A	N/A	4.32
	9/3/2009	18.3	46.1	N/A	N/A	3.33
	12/16/2009	11.8	40.7	N/A	N/A	3.52
	12/16/2009	N/A	N/A	N/A	N/A	3.06
	3/15/2010	6.37	37.4	N/A	N/A	3.81
	3/15/2010	N/A	N/A	N/A	N/A	4.04
	6/30/2010	6.05	32.6	N/A	N/A	2.52
	6/30/2010	N/A	N/A	N/A	N/A	2.52
	9/2/2010	10.6	39.9	N/A	N/A	3.16
	3/8/2011	6.15	30.8	N/A	N/A	1.93
	9/14/2011	9.25	27.4	N/A	N/A	3.01
	3/22/2012	5.82	31.4	N/A	N/A	1.91
	8/20/2012	11	36.2	N/A	N/A	2.96
	3/19/2013	8.77	13.5	N/A	N/A	1.23
	7/17/2013	N/A	N/A	< 1	2.09	N/A
	8/22/2013	10.1	6.02	1.6	< 1	3.06
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	1.28	N/A
	2/11/2014	N/A	N/A	< 1	0.585*	N/A
	3/4/2014	12.6	6.86	< 1	< 1	3.14
	3/4/2014	N/A	N/A	N/A	0.55*	N/A
	10/28/2014	8.88	3.01	< 1	1.38	3.38
	4/7/2015	7.69	4.6	< 1	1.06	2.82
	7/28/2015	N/A	N/A	< 1	1.22	N/A
	9/22/2015	6.04	8.68	< 1	1.32	3.24
	9/22/2015	N/A	N/A	N/A	1.22	N/A
	3/29/2016	6.75	8.05	< 1	< 1	2.23
	7/13/2016	8.29	13.9	< 1	< 1	2.86
	7/13/2016	N/A	N/A	N/A	N/A	2.71
	4/5/2017	6.83	10.2	< 1	0.505*	1.79
	9/19/2017	9.11	8.13	0.623*	0.312*	3.61
	9/19/2017	N/A	7.7	N/A	N/A	N/A
	3/5/2018	8.74	4.54	< 1	< 1	3.46
	8/7/2018	9.05	3.38	< 1	< 1	3
	8/7/2018	N/A	N/A	N/A	N/A	2.72
	3/19/2019	10.2	7.65	0.704*	0.333*	1.37
	3/19/2019	N/A	N/A	0.674*	N/A	N/A
	8/27/2019	10.8	4.56	0.555*	< 1	2.16
	8/27/2019	N/A	N/A	N/A	N/A	2.47
	3/3/2020	8.86	3.45	0.779*	< 1	0.961*
	9/22/2020	8.99	4.92	0.619*	< 1	2.11
	9/22/2020	8.73	N/A	N/A	N/A	N/A
	5/18/2021	10.3	3.21	0.479*	< 1	1.3
	5/18/2021	9.05	N/A	N/A	N/A	N/A
	9/14/2021	9.19	1.23	0.261*	< 1	1.73
	4/26/2022	9.6	1.47	< 1	0.223*	1.16
	4/26/2022	N/A	N/A	0.222*	N/A	N/A
	9/13/2022	9.21	1.94	N/A	< 1	1.87
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	9.62	2.48	< 1	< 1	0.776*
	8/15/2023	11.8	1.63	< 1	< 1	1.59
	5/7/2024	10.4	1.15	< 1	< 1	0.637*
	11/5/2024	10.2	0.702*	N/A	< 1	1.09

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	7/31/2009	N/A	N/A	N/A	N/A	< 2
	9/3/2009	< 2	< 2	N/A	N/A	< 2
	12/16/2009	< 2	< 2	N/A	N/A	< 2
	12/16/2009	N/A	N/A	N/A	N/A	< 2
	3/15/2010	< 2	< 2	N/A	N/A	< 2
	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 2	< 2	N/A	N/A	< 2
	6/30/2010	N/A	N/A	N/A	N/A	< 2
	9/2/2010	< 2	< 2	N/A	N/A	< 2
	3/8/2011	< 2	< 2	N/A	N/A	< 2
	9/14/2011	< 2	< 2	N/A	N/A	< 2
	3/22/2012	< 2	< 2	N/A	N/A	< 2
	8/20/2012	< 2	< 2	N/A	N/A	< 2
	3/19/2013	< 2	< 2	N/A	N/A	< 2
	7/17/2013	N/A	N/A	< 2	< 2	N/A
	8/22/2013	< 2	< 2	< 2	< 2	< 2
	8/22/2013	N/A	N/A	< 2	N/A	N/A
	10/30/2013	N/A	N/A	< 2	< 2	N/A
	2/11/2014	N/A	N/A	< 2	< 2	N/A
	3/4/2014	< 2	< 2	< 2	< 2	< 2
	3/4/2014	N/A	N/A	N/A	< 2	N/A
	10/28/2014	< 2	< 2	< 2	< 2	< 2
	4/7/2015	< 2	< 2	< 2	< 2	< 2
	7/28/2015	N/A	N/A	< 2	< 2	N/A
	9/22/2015	< 2	< 2	< 2	< 2	< 2
	9/22/2015	N/A	N/A	N/A	< 2	N/A
	3/29/2016	< 2	< 2	< 2	< 2	< 2
	7/13/2016	< 2	< 2	< 2	< 2	< 2
	7/13/2016	N/A	N/A	N/A	N/A	< 2
	4/5/2017	< 2	< 2	< 2	< 2	< 2
	9/19/2017	< 2	< 2	< 2	< 2	< 2
	9/19/2017	N/A	< 2	N/A	N/A	N/A
	3/5/2018	< 2	< 2	< 2	< 2	< 2
	8/7/2018	< 2	< 2	< 2	< 2	< 2
	8/7/2018	N/A	N/A	N/A	N/A	< 2
	3/19/2019	< 2	< 2	< 2	< 2	< 2
	3/19/2019	N/A	N/A	< 2	N/A	N/A
	8/27/2019	< 2	< 2	< 2	< 2	< 2
	8/27/2019	N/A	N/A	N/A	N/A	< 2
	3/3/2020	< 2	< 2	< 2	< 2	< 2
	9/22/2020	< 2	< 2	< 2	< 2	< 2
	9/22/2020	< 2	N/A	N/A	N/A	N/A
	5/18/2021	< 2	< 2	< 2	< 2	< 2
	5/18/2021	< 2	N/A	N/A	N/A	N/A
	9/14/2021	< 2	< 2	< 2	< 2	< 2
	4/26/2022	< 2	< 2	< 2	< 2	< 2
	4/26/2022	N/A	N/A	< 2	N/A	N/A
	9/13/2022	< 2	< 2	N/A	< 2	< 2
	9/13/2022	N/A	N/A	N/A	< 2	N/A
	3/21/2023	< 2	< 2	< 2	< 2	< 2
	8/15/2023	< 2	< 2	< 2	< 2	< 2
	5/7/2024	< 2	< 2	< 2	< 2	< 2
	11/5/2024	< 2	< 2	N/A	< 2	< 2

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	7/31/2009	N/A	N/A	N/A	N/A	< 0.498
	9/3/2009	< 0.498	< 0.498	N/A	N/A	< 0.498
	12/16/2009	< 0.498	< 0.498	N/A	N/A	< 0.498
	12/16/2009	N/A	N/A	N/A	N/A	< 0.498
	3/15/2010	< 0.498	< 0.498	N/A	N/A	< 0.498
	3/15/2010	N/A	N/A	N/A	N/A	< 0.498
	6/30/2010	< 0.498	< 0.498	N/A	N/A	< 0.498
	6/30/2010	N/A	N/A	N/A	N/A	< 0.498
	9/2/2010	< 0.498	< 0.498	N/A	N/A	< 0.498
	3/8/2011	< 10	< 10	N/A	N/A	< 10
	9/14/2011	< 0.12	< 0.12	N/A	N/A	< 0.12
	3/22/2012	< 0.12	< 0.12	N/A	N/A	< 0.12
	8/20/2012	< 0.12	< 0.12	N/A	N/A	< 0.12
	3/19/2013	< 0.12	< 0.12	N/A	N/A	< 0.12
	7/17/2013	N/A	N/A	< 0.12	< 0.12	N/A
	8/22/2013	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	8/22/2013	N/A	N/A	< 0.12	N/A	N/A
	10/30/2013	N/A	N/A	< 0.12	< 0.12	N/A
	2/11/2014	N/A	N/A	< 0.12	< 0.12	N/A
	3/4/2014	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	3/4/2014	N/A	N/A	N/A	< 0.12	N/A
	10/28/2014	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	4/7/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	7/28/2015	N/A	N/A	< 0.5	< 0.5	N/A
	9/22/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/22/2015	N/A	N/A	N/A	< 0.5	N/A
	3/29/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	7/13/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	7/13/2016	N/A	N/A	N/A	N/A	< 0.5
	4/5/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/19/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/19/2017	N/A	< 0.5	N/A	N/A	N/A
	3/5/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	8/7/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	8/7/2018	N/A	N/A	N/A	N/A	< 0.5
	3/19/2019	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	3/19/2019	N/A	N/A	< 1.2	N/A	N/A
	8/27/2019	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	8/27/2019	N/A	N/A	N/A	N/A	< 1.2
	3/3/2020	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	9/22/2020	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	9/22/2020	< 1.2	N/A	N/A	N/A	N/A
	5/18/2021	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	5/18/2021	< 1.2	N/A	N/A	N/A	N/A
	9/14/2021	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	4/26/2022	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	4/26/2022	N/A	N/A	< 1.2	N/A	N/A
	9/13/2022	< 1.2	< 1.2	N/A	< 1.2	< 1.2
	9/13/2022	N/A	N/A	N/A	< 1.2	N/A
	3/21/2023	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	8/15/2023	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	5/7/2024	< 5	< 5	< 5	< 1.2	< 5
	11/5/2024	< 1.2	< 1.2	N/A	< 1.2	< 1.2

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	7/31/2009	N/A	N/A	N/A	N/A	< 0.255
	9/3/2009	< 0.255	< 0.255	N/A	N/A	< 0.255
	12/16/2009	< 0.255	< 0.255	N/A	N/A	< 0.255
	12/16/2009	N/A	N/A	N/A	N/A	< 0.255
	3/15/2010	< 0.255	< 0.255	N/A	N/A	< 0.255
	3/15/2010	N/A	N/A	N/A	N/A	< 0.255
	6/30/2010	< 0.255	< 0.255	N/A	N/A	< 0.255
	6/30/2010	N/A	N/A	N/A	N/A	< 0.255
	9/2/2010	< 0.255	< 0.255	N/A	N/A	< 0.255
	3/8/2011	< 10	< 10	N/A	N/A	< 10
	9/14/2011	< 0.13	< 0.13	N/A	N/A	< 0.13
	3/22/2012	< 0.13	< 0.13	N/A	N/A	< 0.13
	8/20/2012	< 0.13	< 0.13	N/A	N/A	< 0.13
	3/19/2013	< 0.13	< 0.13	N/A	N/A	< 0.13
	7/17/2013	N/A	N/A	< 0.13	< 0.13	N/A
	8/22/2013	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	8/22/2013	N/A	N/A	< 0.13	N/A	N/A
	10/30/2013	N/A	N/A	< 0.13	< 0.13	N/A
	2/11/2014	N/A	N/A	< 0.13	< 0.13	N/A
	3/4/2014	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	3/4/2014	N/A	N/A	N/A	< 0.13	N/A
	10/28/2014	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	4/7/2015	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	7/28/2015	N/A	N/A	< 0.13	< 0.13	N/A
	9/22/2015	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/22/2015	N/A	N/A	N/A	< 0.13	N/A
	3/29/2016	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	7/13/2016	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	7/13/2016	N/A	N/A	N/A	N/A	< 0.13
	4/5/2017	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/19/2017	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/19/2017	N/A	< 0.13	N/A	N/A	N/A
	3/5/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	8/7/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	8/7/2018	N/A	N/A	N/A	N/A	< 0.13
	3/19/2019	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	3/19/2019	N/A	N/A	< 0.34	N/A	N/A
	8/27/2019	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	8/27/2019	N/A	N/A	N/A	N/A	< 0.34
	3/3/2020	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	9/22/2020	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	9/22/2020	< 0.34	N/A	N/A	N/A	N/A
	5/18/2021	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	5/18/2021	< 0.34	N/A	N/A	N/A	N/A
	9/14/2021	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	4/26/2022	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	4/26/2022	N/A	N/A	< 0.34	N/A	N/A
	9/13/2022	< 0.34	< 0.34	N/A	< 0.34	< 0.34
	9/13/2022	N/A	N/A	N/A	< 0.34	N/A
	3/21/2023	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	8/15/2023	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	5/7/2024	< 1	< 1	< 1	< 0.34	< 1
	11/5/2024	< 0.34	< 0.34	N/A	< 0.34	< 0.34

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 2	< 2	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	0.292*	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	0.367*	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	0.424*	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	0.291*	< 1	< 1	< 1
	7/13/2016	< 1	0.449*	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	0.187*	0.448*	< 1	< 1	< 1
	9/19/2017	< 1	0.438*	< 1	< 1	< 1
	9/19/2017	N/A	0.465*	N/A	N/A	N/A
	3/5/2018	0.312*	0.399*	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	0.463*	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	**13.7**	N/A	N/A	< 1
	12/16/2009	< 1	**16.2**	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	**15.1**	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	**11.7**	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	**13.1**	N/A	N/A	< 1
	3/8/2011	< 1	**10.8**	N/A	N/A	< 1
	9/14/2011	< 1	**9.69**	N/A	N/A	< 1
	3/22/2012	< 1	**9.3**	N/A	N/A	< 1
	8/20/2012	< 1	**9.85**	N/A	N/A	< 1
	3/19/2013	< 1	**5.53**	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	**2.99**	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	**2.67**	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	**1.61**	< 1	< 1	< 1
	4/7/2015	< 1	**1.74**	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	**2.64**	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	**2.53**	< 1	< 1	< 1
	7/13/2016	< 1	**3.77**	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	**3.21**	< 1	< 1	< 1
	9/19/2017	< 1	**2.71**	< 1	< 1	< 1
	9/19/2017	N/A	**2.8**	N/A	N/A	N/A
	3/5/2018	< 1	**2.91**	< 1	< 1	< 1
	8/7/2018	< 1	**1.81**	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	**2.35**	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	**1.9**	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	**1.63**	< 1	< 1	< 1
	9/22/2020	< 1	**1.75**	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	**1.28**	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	0.831*	< 1	< 1	< 1
	4/26/2022	< 1	0.979*	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	0.799*	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	0.754*	< 1	< 1	< 1
	8/15/2023	< 1	0.705*	< 1	< 1	< 1
	5/7/2024	< 1	0.724*	< 1	< 1	< 1
	11/5/2024	< 1	0.402*	N/A	< 1	< 1

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 2	< 2	N/A	N/A	< 2
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	0.235*	< 1	< 1
	3/19/2019	N/A	N/A	0.303*	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	0.462*	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	0.396*	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	0.417*	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	0.525*	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
2-Butanone, ug/L (CAS NO - 78-93-3)	7/31/2009	N/A	N/A	N/A	N/A	< 10
	9/3/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	N/A	N/A	N/A	N/A	< 10
	3/15/2010	< 10	< 10	N/A	N/A	< 10
	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	< 10
	6/30/2010	N/A	N/A	N/A	N/A	< 10
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 10	< 10	N/A	N/A	< 10
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	< 10
	8/20/2012	< 10	< 10	N/A	N/A	< 10
	3/19/2013	< 10	< 10	N/A	N/A	< 10
	7/17/2013	N/A	N/A	< 10	< 10	N/A
	8/22/2013	< 10	< 10	< 10	< 10	< 10
	8/22/2013	N/A	N/A	< 10	N/A	N/A
	10/30/2013	N/A	N/A	0.821*	0.96*	N/A
	2/11/2014	N/A	N/A	< 10	< 10	N/A
	3/4/2014	< 10	< 10	< 10	< 10	< 10
	3/4/2014	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	< 10	< 10	< 10	< 10
	4/7/2015	< 10	< 10	< 10	< 10	< 10
	7/28/2015	N/A	N/A	< 10	< 10	N/A
	9/22/2015	< 10	< 10	< 10	< 10	< 10
	9/22/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	N/A	N/A	N/A	N/A	< 10
	4/5/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	< 10	1.89*	< 10	< 10	< 10
	9/19/2017	N/A	< 10	N/A	N/A	N/A
	3/5/2018	2.88*	2.14*	< 10	< 10	< 10
	8/7/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	N/A	N/A	N/A	N/A	< 10
	3/19/2019	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	N/A	< 10	N/A	N/A
	8/27/2019	< 10	< 10	< 10	< 10	< 10
	8/27/2019	N/A	N/A	N/A	N/A	< 10
	3/3/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	N/A	N/A	N/A	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
	5/18/2021	< 10	N/A	N/A	N/A	N/A
	9/14/2021	< 10	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10	< 10
	4/26/2022	N/A	N/A	< 10	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10
	9/13/2022	N/A	N/A	N/A	< 10	N/A
	3/21/2023	< 10	< 10	< 10	< 10	< 10
	8/15/2023	< 10	< 10	< 10	< 10	< 10
	5/7/2024	< 10	< 10	< 10	< 10	< 10
	11/5/2024	< 10	< 10	N/A	< 10	< 10

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
2-Hexanone, ug/L (CAS NO - 591-78-6)	7/31/2009	N/A	N/A	N/A	N/A	< 10
	9/3/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	N/A	N/A	N/A	N/A	< 10
	3/15/2010	< 10	< 10	N/A	N/A	< 10
	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	< 10
	6/30/2010	N/A	N/A	N/A	N/A	< 10
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 10	< 10	N/A	N/A	< 10
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	< 10
	8/20/2012	< 10	< 10	N/A	N/A	< 10
	3/19/2013	< 10	< 10	N/A	N/A	< 10
	7/17/2013	N/A	N/A	< 10	< 10	N/A
	8/22/2013	< 10	< 10	< 10	< 10	< 10
	8/22/2013	N/A	N/A	< 10	N/A	N/A
	10/30/2013	N/A	N/A	< 10	< 10	N/A
	2/11/2014	N/A	N/A	< 10	< 10	N/A
	3/4/2014	< 10	< 10	< 10	< 10	< 10
	3/4/2014	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	< 10	< 10	< 10	< 10
	4/7/2015	< 10	< 10	< 10	< 10	< 10
	7/28/2015	N/A	N/A	< 10	< 10	N/A
	9/22/2015	< 10	< 10	< 10	< 10	< 10
	9/22/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	N/A	N/A	N/A	N/A	< 10
	4/5/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	N/A	N/A	N/A
	3/5/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	N/A	N/A	N/A	N/A	< 10
	3/19/2019	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	N/A	< 10	N/A	N/A
	8/27/2019	< 10	< 10	< 10	< 10	< 10
	8/27/2019	N/A	N/A	N/A	N/A	< 10
	3/3/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	N/A	N/A	N/A	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
	5/18/2021	< 10	N/A	N/A	N/A	N/A
	9/14/2021	< 10	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10	< 10
	4/26/2022	N/A	N/A	< 10	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10
	9/13/2022	N/A	N/A	N/A	< 10	N/A
	3/21/2023	< 10	< 10	< 10	< 10	< 10
	8/15/2023	< 10	< 10	< 10	< 10	< 10
	5/7/2024	< 10	< 10	< 10	< 10	< 10
	11/5/2024	< 10	< 10	N/A	< 10	< 10

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	7/31/2009	N/A	N/A	N/A	N/A	< 10
	9/3/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	N/A	N/A	N/A	N/A	< 10
	3/15/2010	< 10	< 10	N/A	N/A	< 10
	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	< 10
	6/30/2010	N/A	N/A	N/A	N/A	< 10
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 10	< 10	N/A	N/A	< 10
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	< 10
	8/20/2012	< 10	< 10	N/A	N/A	< 10
	3/19/2013	< 10	< 10	N/A	N/A	< 10
	7/17/2013	N/A	N/A	< 10	< 10	N/A
	8/22/2013	< 10	< 10	< 10	< 10	< 10
	8/22/2013	N/A	N/A	< 10	N/A	N/A
	10/30/2013	N/A	N/A	< 10	< 10	N/A
	2/11/2014	N/A	N/A	< 10	< 10	N/A
	3/4/2014	< 10	< 10	< 10	< 10	< 10
	3/4/2014	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	< 10	< 10	< 10	< 10
	4/7/2015	< 10	< 10	< 10	< 10	< 10
	7/28/2015	N/A	N/A	< 10	< 10	N/A
	9/22/2015	< 10	< 10	< 10	< 10	< 10
	9/22/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	N/A	N/A	N/A	N/A	< 10
	4/5/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	< 10	< 10	< 10	< 10	0.676*
	9/19/2017	N/A	< 10	N/A	N/A	N/A
	3/5/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	N/A	N/A	N/A	N/A	< 10
	3/19/2019	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	N/A	< 10	N/A	N/A
	8/27/2019	< 10	< 10	< 10	< 10	< 10
	8/27/2019	N/A	N/A	N/A	N/A	< 10
	3/3/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	N/A	N/A	N/A	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
	5/18/2021	< 10	N/A	N/A	N/A	N/A
	9/14/2021	< 10	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10	< 10
	4/26/2022	N/A	N/A	< 10	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10
	9/13/2022	N/A	N/A	N/A	< 10	N/A
	3/21/2023	< 10	< 10	< 10	< 10	< 10
	8/15/2023	< 10	< 10	< 10	< 10	< 10
	5/7/2024	< 10	< 10	< 10	< 10	< 10
	11/5/2024	< 10	< 10	N/A	< 10	< 10

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Acetone, ug/L (CAS NO - 67-64-1)	7/31/2009	N/A	N/A	N/A	N/A	< 10
	9/3/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	N/A	N/A	N/A	N/A	< 10
	3/15/2010	< 10	< 10	N/A	N/A	< 10
	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	< 10
	6/30/2010	N/A	N/A	N/A	N/A	< 10
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 10	< 10	N/A	N/A	< 10
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	< 10
	8/20/2012	< 10	< 10	N/A	N/A	< 10
	3/19/2013	< 10	< 10	N/A	N/A	< 10
	7/17/2013	N/A	N/A	< 10	< 10	N/A
	8/22/2013	< 10	< 10	5.57*	4.42*	**18.5**
	8/22/2013	N/A	N/A	7.43*	N/A	N/A
	10/30/2013	N/A	N/A	6.73*	6.63*	N/A
	2/11/2014	N/A	N/A	< 10	< 10	N/A
	3/4/2014	< 10	< 10	< 10	2.19*	< 10
	3/4/2014	N/A	N/A	N/A	6.4*	N/A
	10/28/2014	< 10	< 10	< 10	< 10	< 10
	4/7/2015	< 10	< 10	< 10	2.52*	< 10
	7/28/2015	N/A	N/A	< 10	< 10	N/A
	9/22/2015	< 10	< 10	3.13*	< 10	< 10
	9/22/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	4.84*	3.25*	4.21*	2.01*	< 10
	7/13/2016	2.43*	< 10	2.01*	< 10	1.95*
	7/13/2016	N/A	N/A	N/A	N/A	2.05*
	4/5/2017	3.92*	3.89*	4.42*	6.25*	3.76*
	9/19/2017	3.52*	**18.9**	2.73*	2.5*	< 10
	9/19/2017	N/A	2.85*	N/A	N/A	N/A
	3/5/2018	5.01*	5.15*	< 10	2.71*	< 10
	8/7/2018	< 10	< 10	< 10	5.23*	< 10
	8/7/2018	N/A	N/A	N/A	N/A	< 10
	3/19/2019	4.27*	3.7*	4.09*	< 10	< 10
	3/19/2019	N/A	N/A	< 10	N/A	N/A
	8/27/2019	< 10	< 10	< 10	< 10	< 10
	8/27/2019	N/A	N/A	N/A	N/A	< 10
	3/3/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	8.75*	< 10	< 10	< 10	< 10
	9/22/2020	< 10	N/A	N/A	N/A	N/A
	5/18/2021	< 10	< 10	7.81*	**43.4**	< 10
	5/18/2021	< 10	N/A	N/A	N/A	N/A
	9/14/2021	< 10	< 10	4.95*	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10	< 10
	4/26/2022	N/A	N/A	< 10	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10
	9/13/2022	N/A	N/A	N/A	7.18*	N/A
	3/21/2023	< 10	< 10	< 10	**23.5**	< 10
	8/15/2023	4.14*	6.27*	5.07*	7.35*	5.75*
	5/7/2024	< 10	< 10	< 10	4.82*	< 10
	11/5/2024	3.26*	< 10	N/A	< 10	< 10

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Acrylonitrile, ug/L (CAS NO - 107-13-1)	7/31/2009	N/A	N/A	N/A	N/A	< 10
	9/3/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	N/A	N/A	N/A	N/A	< 10
	3/15/2010	< 10	< 10	N/A	N/A	< 10
	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	< 10
	6/30/2010	N/A	N/A	N/A	N/A	< 10
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 10	< 10	N/A	N/A	< 10
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	< 10
	8/20/2012	< 10	< 10	N/A	N/A	< 10
	3/19/2013	< 10	< 10	N/A	N/A	< 10
	7/17/2013	N/A	N/A	< 10	< 10	N/A
	8/22/2013	< 10	< 10	< 10	< 10	< 10
	8/22/2013	N/A	N/A	< 10	N/A	N/A
	10/30/2013	N/A	N/A	< 10	< 10	N/A
	2/11/2014	N/A	N/A	< 10	< 10	N/A
	3/4/2014	< 10	< 10	< 10	< 10	< 10
	3/4/2014	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	< 10	< 10	< 10	< 10
	4/7/2015	< 10	< 10	< 10	< 10	< 10
	7/28/2015	N/A	N/A	< 10	< 10	N/A
	9/22/2015	< 10	< 10	< 10	< 10	< 10
	9/22/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	N/A	N/A	N/A	N/A	< 10
	4/5/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	N/A	N/A	N/A
	3/5/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	N/A	N/A	N/A	N/A	< 10
	3/19/2019	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	N/A	< 10	N/A	N/A
	8/27/2019	< 10	< 10	< 10	< 10	< 10
	8/27/2019	N/A	N/A	N/A	N/A	< 10
	3/3/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	N/A	N/A	N/A	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
	5/18/2021	< 10	N/A	N/A	N/A	N/A
	9/14/2021	< 10	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10	< 10
	4/26/2022	N/A	N/A	< 10	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10
	9/13/2022	N/A	N/A	N/A	< 10	N/A
	3/21/2023	< 10	< 10	< 10	< 10	< 10
	8/15/2023	< 10	< 10	< 10	< 10	< 10
	5/7/2024	< 5	< 5	< 5	< 10	< 5
	11/5/2024	< 10	< 10	N/A	< 10	< 10

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Benzene, ug/L (CAS NO - 71-43-2)	7/31/2009	N/A	N/A	N/A	N/A	< 0.5
	9/3/2009	0.75	2.6	N/A	N/A	< 0.5
	12/16/2009	1.33	2.84	N/A	N/A	< 0.5
	12/16/2009	N/A	N/A	N/A	N/A	< 0.5
	3/15/2010	1.39	2.67	N/A	N/A	< 0.5
	3/15/2010	N/A	N/A	N/A	N/A	< 0.5
	6/30/2010	1.81	2.91	N/A	N/A	0.82
	6/30/2010	N/A	N/A	N/A	N/A	0.82
	9/2/2010	0.89	3	N/A	N/A	0.5
	3/8/2011	1.14	2.85	N/A	N/A	0.64
	9/14/2011	0.99	2.67	N/A	N/A	0.61
	3/22/2012	0.72	2.46	N/A	N/A	1.49
	8/20/2012	0.71	4.26	N/A	N/A	< 0.5
	3/19/2013	0.759	2.28	N/A	N/A	2.33
	7/17/2013	N/A	N/A	< 0.5	< 0.5	N/A
	8/22/2013	0.86	1.9	0.236*	0.17*	0.595
	8/22/2013	N/A	N/A	0.319*	N/A	N/A
	10/30/2013	N/A	N/A	0.157*	0.194*	N/A
	2/11/2014	N/A	N/A	0.206*	< 0.5	N/A
	3/4/2014	0.63	2.8	0.551	< 0.5	0.566
	3/4/2014	N/A	N/A	N/A	< 0.5	N/A
	10/28/2014	0.742	1.6	1.4	0.254*	0.359*
	4/7/2015	0.622	2.17	1.88	0.158*	0.675
	7/28/2015	N/A	N/A	1.79	0.301*	N/A
	9/22/2015	1.16	3.14	1.13	0.479*	0.905
	9/22/2015	N/A	N/A	N/A	0.454*	N/A
	3/29/2016	0.971	1.94	< 0.5	< 0.5	0.684
	7/13/2016	1.56	3.11	0.855	< 0.5	0.8
	7/13/2016	N/A	N/A	N/A	N/A	0.715
	4/5/2017	0.838	2.13	1.36	0.589	1.25
	9/19/2017	0.768	2.19	1.9	0.261*	0.546
	9/19/2017	N/A	2.18	N/A	N/A	N/A
	3/5/2018	0.883	2.21	0.342*	< 0.5	0.433*
	8/7/2018	0.83	1.77	0.537	< 0.5	0.543
	8/7/2018	N/A	N/A	N/A	N/A	0.548
	3/19/2019	1.13	2	1.48	1.7	0.572
	3/19/2019	N/A	N/A	1.59	N/A	N/A
	8/27/2019	0.853	2.02	0.746	0.683	0.691
	8/27/2019	N/A	N/A	N/A	N/A	0.687
	3/3/2020	1.01	1.54	1.43	1.43	0.465*
	9/22/2020	1.13	2.05	1.04	0.265*	0.536
	9/22/2020	1.02	N/A	N/A	N/A	N/A
	5/18/2021	0.796	1.79	3	1.39	0.47*
	5/18/2021	1.24	N/A	N/A	N/A	N/A
	9/14/2021	0.865	1.71	0.686	0.353*	0.293*
	4/26/2022	0.986	1.7	0.918	< 0.5	< 0.5
	4/26/2022	N/A	N/A	0.988	N/A	N/A
	9/13/2022	0.935	2.45	N/A	< 0.5	0.284*
	9/13/2022	N/A	N/A	N/A	0.248*	N/A
	3/21/2023	0.943	1.66	0.798	0.821	< 0.5
	8/15/2023	1.1	2.03	1.23	0.491*	0.341*
	5/7/2024	1.22	2.24	2.13	1.34	< 0.5
	11/5/2024	1.01	2.07	N/A	< 0.5	0.254*

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Bromochloromethane, ug/L (CAS NO - 74-97-5)	7/31/2009	N/A	N/A	N/A	N/A	< 5
	9/3/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	N/A	N/A	N/A	N/A	< 5
	3/15/2010	< 5	< 5	N/A	N/A	< 5
	3/15/2010	N/A	N/A	N/A	N/A	< 5
	6/30/2010	< 5	< 5	N/A	N/A	< 5
	6/30/2010	N/A	N/A	N/A	N/A	< 5
	9/2/2010	< 5	< 5	N/A	N/A	< 5
	3/8/2011	< 5	< 5	N/A	N/A	< 5
	9/14/2011	< 5	< 5	N/A	N/A	< 5
	3/22/2012	< 5	< 5	N/A	N/A	< 5
	8/20/2012	< 5	< 5	N/A	N/A	< 5
	3/19/2013	< 5	< 5	N/A	N/A	< 5
	7/17/2013	N/A	N/A	< 5	< 5	N/A
	8/22/2013	< 5	< 5	< 5	< 5	< 5
	8/22/2013	N/A	N/A	< 5	N/A	N/A
	10/30/2013	N/A	N/A	< 5	< 5	N/A
	2/11/2014	N/A	N/A	< 5	< 5	N/A
	3/4/2014	< 5	< 5	< 5	< 5	< 5
	3/4/2014	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	< 5	< 5	< 5	< 5
	4/7/2015	< 5	< 5	< 5	< 5	< 5
	7/28/2015	N/A	N/A	< 5	< 5	N/A
	9/22/2015	< 5	< 5	< 5	< 5	< 5
	9/22/2015	N/A	N/A	N/A	< 5	N/A
	3/29/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	N/A	N/A	N/A	N/A	< 5
	4/5/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	N/A	N/A	N/A
	3/5/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	N/A	N/A	N/A	N/A	< 5
	3/19/2019	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	N/A	< 5	N/A	N/A
	8/27/2019	< 5	< 5	< 5	< 5	< 5
	8/27/2019	N/A	N/A	N/A	N/A	< 5
	3/3/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	N/A	N/A	N/A	N/A
	5/18/2021	< 5	< 5	< 5	< 5	< 5
	5/18/2021	< 5	N/A	N/A	N/A	N/A
	9/14/2021	< 5	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5	< 5
	4/26/2022	N/A	N/A	< 5	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5
	9/13/2022	N/A	N/A	N/A	< 5	N/A
	3/21/2023	< 5	< 5	< 5	< 5	< 5
	8/15/2023	< 5	< 5	< 5	< 5	< 5
	5/7/2024	< 5	< 5	< 5	< 5	< 5
	11/5/2024	< 5	< 5	N/A	< 5	< 5

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	N/A	N/A	N/A	N/A	< 5
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 5	< 5	N/A	N/A	< 5
	6/30/2010	N/A	N/A	N/A	N/A	< 5
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Bromoform, ug/L (CAS NO - 75-25-2)	7/31/2009	N/A	N/A	N/A	N/A	< 5
	9/3/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	N/A	N/A	N/A	N/A	< 10
	3/15/2010	< 5	< 5	N/A	N/A	< 5
	3/15/2010	N/A	N/A	N/A	N/A	< 5
	6/30/2010	< 5	< 5	N/A	N/A	< 5
	6/30/2010	N/A	N/A	N/A	N/A	< 5
	9/2/2010	< 5	< 5	N/A	N/A	< 5
	3/8/2011	< 5	< 5	N/A	N/A	< 5
	9/14/2011	< 5	< 5	N/A	N/A	< 5
	3/22/2012	< 5	< 5	N/A	N/A	< 5
	8/20/2012	< 5	< 5	N/A	N/A	< 5
	3/19/2013	< 5	< 5	N/A	N/A	< 5
	7/17/2013	N/A	N/A	< 5	< 5	N/A
	8/22/2013	0.307*	< 5	0.378*	0.362*	0.331*
	8/22/2013	N/A	N/A	0.296*	N/A	N/A
	10/30/2013	N/A	N/A	< 5	< 5	N/A
	2/11/2014	N/A	N/A	< 5	< 5	N/A
	3/4/2014	< 5	< 5	< 5	< 5	< 5
	3/4/2014	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	< 5	< 5	< 5	< 5
	4/7/2015	< 5	< 5	< 5	< 5	< 5
	7/28/2015	N/A	N/A	< 5	< 5	N/A
	9/22/2015	< 5	< 5	< 5	< 5	< 5
	9/22/2015	N/A	N/A	N/A	< 5	N/A
	3/29/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	N/A	N/A	N/A	N/A	< 5
	4/5/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	N/A	N/A	N/A
	3/5/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	N/A	N/A	N/A	N/A	< 5
	3/19/2019	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	N/A	< 5	N/A	N/A
	8/27/2019	< 5	< 5	< 5	< 5	< 5
	8/27/2019	N/A	N/A	N/A	N/A	< 5
	3/3/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	N/A	N/A	N/A	N/A
	5/18/2021	< 5	< 5	< 5	< 5	< 5
	5/18/2021	< 5	N/A	N/A	N/A	N/A
	9/14/2021	< 5	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5	< 5
	4/26/2022	N/A	N/A	< 5	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5
	9/13/2022	N/A	N/A	N/A	< 5	N/A
	3/21/2023	< 5	< 5	< 5	< 5	< 5
	8/15/2023	< 5	< 5	< 5	< 5	< 5
	5/7/2024	< 5	< 5	< 5	< 5	< 5
	11/5/2024	< 5	< 5	N/A	< 5	< 5

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Bromomethane, ug/L (CAS NO - 74-83-9)	7/31/2009	N/A	N/A	N/A	N/A	< 4
	9/3/2009	< 4	< 4	N/A	N/A	< 4
	12/16/2009	< 4	< 4	N/A	N/A	< 4
	12/16/2009	N/A	N/A	N/A	N/A	< 4
	3/15/2010	< 4	< 4	N/A	N/A	< 4
	3/15/2010	N/A	N/A	N/A	N/A	< 4
	6/30/2010	< 4	< 4	N/A	N/A	< 4
	6/30/2010	N/A	N/A	N/A	N/A	< 4
	9/2/2010	< 4	< 4	N/A	N/A	< 4
	3/8/2011	< 4	< 4	N/A	N/A	< 4
	9/14/2011	< 4	< 4	N/A	N/A	< 4
	3/22/2012	< 4	< 4	N/A	N/A	< 4
	8/20/2012	< 4	< 4	N/A	N/A	< 4
	3/19/2013	< 4	< 4	N/A	N/A	< 4
	7/17/2013	N/A	N/A	< 4	< 4	N/A
	8/22/2013	< 4	0.34*	< 4	< 4	< 4
	8/22/2013	N/A	N/A	< 4	N/A	N/A
	10/30/2013	N/A	N/A	< 4	< 4	N/A
	2/11/2014	N/A	N/A	< 4	< 4	N/A
	3/4/2014	< 4	< 4	< 4	< 4	< 4
	3/4/2014	N/A	N/A	N/A	< 4	N/A
	10/28/2014	< 4	< 4	< 4	< 4	< 4
	4/7/2015	< 4	< 4	< 4	< 4	< 4
	7/28/2015	N/A	N/A	< 4	< 4	N/A
	9/22/2015	< 4	< 4	< 4	< 4	< 4
	9/22/2015	N/A	N/A	N/A	< 4	N/A
	3/29/2016	< 4	< 4	< 4	< 4	< 4
	7/13/2016	< 4	0.654*	< 4	< 4	0.247*
	7/13/2016	N/A	N/A	N/A	N/A	0.376*
	4/5/2017	< 4	< 4	< 4	< 4	< 4
	9/19/2017	0.626*	0.542*	0.593*	0.376*	0.403*
	9/19/2017	N/A	0.438*	N/A	N/A	N/A
	3/5/2018	0.249*	0.287*	< 4	< 4	< 4
	8/7/2018	< 4	< 4	< 4	< 4	< 4
	8/7/2018	N/A	N/A	N/A	N/A	< 4
	3/19/2019	< 4	< 4	< 4	< 4	< 4
	3/19/2019	N/A	N/A	< 4	N/A	N/A
	8/27/2019	< 4	< 4	< 4	< 4	< 4
	8/27/2019	N/A	N/A	N/A	N/A	< 4
	3/3/2020	< 4	< 4	< 4	< 4	< 4
	9/22/2020	< 4	< 4	< 4	< 4	< 4
	9/22/2020	< 4	N/A	N/A	N/A	N/A
	5/18/2021	< 4	< 4	< 4	< 4	< 4
	5/18/2021	< 4	N/A	N/A	N/A	N/A
	9/14/2021	< 4	< 4	< 4	< 4	< 4
	4/26/2022	< 4	< 4	< 4	< 4	< 4
	4/26/2022	N/A	N/A	< 4	N/A	N/A
	9/13/2022	< 4	< 4	N/A	< 4	< 4
	9/13/2022	N/A	N/A	N/A	< 4	N/A
	3/21/2023	< 4	< 4	< 4	< 4	< 4
	8/15/2023	< 4	< 4	< 4	< 4	< 4
	5/7/2024	< 4	< 4	< 4	< 4	< 4
	11/5/2024	< 4	< 4	N/A	< 4	< 4

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 2	< 2	N/A	N/A	< 2
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 5	< 5	N/A	N/A	< 5
	6/30/2010	N/A	N/A	N/A	N/A	< 5
	9/2/2010	< 4	< 4	N/A	N/A	< 4
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	0.197*	< 1	< 1	0.162*	1.61
	8/22/2013	N/A	N/A	0.248*	N/A	N/A
	10/30/2013	N/A	N/A	0.695*	0.167*	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	0.294*	0.328*
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	0.189*	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	7/31/2009	N/A	N/A	N/A	N/A	< 2
	9/3/2009	< 2	< 2	N/A	N/A	< 2
	12/16/2009	< 2	< 2	N/A	N/A	< 2
	12/16/2009	N/A	N/A	N/A	N/A	< 2
	3/15/2010	< 2	< 2	N/A	N/A	< 2
	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 4	< 4	N/A	N/A	< 4
	6/30/2010	N/A	N/A	N/A	N/A	< 4
	9/2/2010	< 5	< 5	N/A	N/A	< 5
	3/8/2011	< 2	< 2	N/A	N/A	< 2
	9/14/2011	< 4	< 4	N/A	N/A	< 4
	3/22/2012	< 2	< 2	N/A	N/A	< 2
	8/20/2012	< 2	< 2	N/A	N/A	< 2
	3/19/2013	< 2	< 2	N/A	N/A	< 2
	7/17/2013	N/A	N/A	< 2	< 2	N/A
	8/22/2013	< 2	< 2	< 2	< 2	< 2
	8/22/2013	N/A	N/A	< 2	N/A	N/A
	10/30/2013	N/A	N/A	< 2	< 2	N/A
	2/11/2014	N/A	N/A	< 2	< 2	N/A
	3/4/2014	< 2	< 2	< 2	< 2	< 2
	3/4/2014	N/A	N/A	N/A	< 2	N/A
	10/28/2014	< 2	< 2	< 2	< 2	< 2
	4/7/2015	< 2	< 2	< 2	< 2	< 2
	7/28/2015	N/A	N/A	< 2	< 2	N/A
	9/22/2015	< 2	< 2	< 2	< 2	< 2
	9/22/2015	N/A	N/A	N/A	< 2	N/A
	3/29/2016	< 2	< 2	< 2	< 2	< 2
	7/13/2016	< 2	< 2	< 2	< 2	< 2
	7/13/2016	N/A	N/A	N/A	N/A	< 2
	4/5/2017	< 2	< 2	< 2	< 2	< 2
	9/19/2017	< 2	< 2	< 2	< 2	< 2
	9/19/2017	N/A	< 2	N/A	N/A	N/A
	3/5/2018	< 2	< 2	< 2	< 2	< 2
	8/7/2018	< 2	< 2	< 2	< 2	< 2
	8/7/2018	N/A	N/A	N/A	N/A	< 2
	3/19/2019	< 2	< 2	< 2	< 2	< 2
	3/19/2019	N/A	N/A	< 2	N/A	N/A
	8/27/2019	< 2	< 2	< 2	< 2	< 2
	8/27/2019	N/A	N/A	N/A	N/A	< 2
	3/3/2020	< 2	< 2	< 2	< 2	< 2
	9/22/2020	< 2	< 2	< 2	< 2	< 2
	9/22/2020	< 2	N/A	N/A	N/A	N/A
	5/18/2021	< 2	< 2	< 2	< 2	< 2
	5/18/2021	< 2	N/A	N/A	N/A	N/A
	9/14/2021	< 2	< 2	< 2	< 2	< 2
	4/26/2022	< 2	< 2	< 2	< 2	< 2
	4/26/2022	N/A	N/A	< 2	N/A	N/A
	9/13/2022	< 2	< 2	N/A	< 2	< 2
	9/13/2022	N/A	N/A	N/A	< 2	N/A
	3/21/2023	< 2	< 2	< 2	< 2	< 2
	8/15/2023	< 2	< 2	< 2	< 2	< 2
	5/7/2024	< 2	< 2	< 2	< 2	< 2
	11/5/2024	< 2	< 2	N/A	< 2	< 2

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Chlorobenzene, ug/L (CAS NO - 108-90-7)	7/31/2009	N/A	N/A	N/A	N/A	**1.33**
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	**1.6**
	12/16/2009	N/A	N/A	N/A	N/A	**1.41**
	3/15/2010	< 1	< 1	N/A	N/A	**1.99**
	3/15/2010	N/A	N/A	N/A	N/A	**1.95**
	6/30/2010	< 1	< 1	N/A	N/A	**2.35**
	6/30/2010	N/A	N/A	N/A	N/A	**2.35**
	9/2/2010	< 1	< 1	N/A	N/A	**2.9**
	3/8/2011	< 1	< 1	N/A	N/A	**2.69**
	9/14/2011	< 1	< 1	N/A	N/A	**4.12**
	3/22/2012	< 1	< 1	N/A	N/A	**4.07**
	8/20/2012	< 1	< 1	N/A	N/A	**2.69**
	3/19/2013	< 1	< 1	N/A	N/A	**4.89**
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	**3.95**
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	0.39*	< 1	0.3*	< 1	**4.2**
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	0.305*	< 1	< 1	< 1	**4.36**
	4/7/2015	0.348*	< 1	< 1	< 1	**4.58**
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	**5.5**
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	0.48*	< 1	< 1	< 1	**5.1**
	7/13/2016	N/A	N/A	N/A	N/A	**5.25**
	4/5/2017	< 1	< 1	< 1	< 1	**5.05**
	9/19/2017	0.349*	< 1	0.728*	< 1	**6.15**
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	0.408*	< 1	0.375*	< 1	**5.72**
	8/7/2018	< 1	< 1	< 1	< 1	**4.92**
	8/7/2018	N/A	N/A	N/A	N/A	**5.2**
	3/19/2019	< 1	< 1	**1.16**	< 1	**4.3**
	3/19/2019	N/A	N/A	**1.15**	N/A	N/A
	8/27/2019	< 1	< 1	0.629*	< 1	**6.67**
	8/27/2019	N/A	N/A	N/A	N/A	**6.81**
	3/3/2020	< 1	< 1	**2.23**	< 1	**3.66**
	9/22/2020	0.462*	< 1	< 1	< 1	**6.49**
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	0.43*	< 1	**1.61**	< 1	**5.74**
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	0.829*	< 1	**7.67**
	4/26/2022	0.446*	< 1	**1.11**	< 1	**2.52**
	4/26/2022	N/A	N/A	0.987*	N/A	N/A
	9/13/2022	0.418*	< 1	N/A	< 1	**7.1**
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	**1.01**	< 1	**1.25**
	8/15/2023	0.492*	< 1	0.645*	< 1	**6.11**
	5/7/2024	0.504*	< 1	**1.52**	< 1	**1.25**
	11/5/2024	0.577*	< 1	N/A	< 1	**9.96**

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	7/31/2009	N/A	N/A	N/A	N/A	< 5
	9/3/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	N/A	N/A	N/A	N/A	< 10
	3/15/2010	< 5	< 5	N/A	N/A	< 5
	3/15/2010	N/A	N/A	N/A	N/A	< 5
	6/30/2010	< 5	< 5	N/A	N/A	< 5
	6/30/2010	N/A	N/A	N/A	N/A	< 5
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 5	< 5	N/A	N/A	< 5
	9/14/2011	< 5	< 5	N/A	N/A	< 5
	3/22/2012	< 5	< 5	N/A	N/A	< 5
	8/20/2012	< 5	< 5	N/A	N/A	< 5
	3/19/2013	< 5	< 5	N/A	N/A	< 5
	7/17/2013	N/A	N/A	< 5	< 5	N/A
	8/22/2013	< 5	< 5	< 5	< 5	< 5
	8/22/2013	N/A	N/A	< 5	N/A	N/A
	10/30/2013	N/A	N/A	< 5	< 5	N/A
	2/11/2014	N/A	N/A	< 5	< 5	N/A
	3/4/2014	< 5	< 5	< 5	< 5	< 5
	3/4/2014	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	< 5	< 5	< 5	< 5
	4/7/2015	< 5	< 5	< 5	< 5	< 5
	7/28/2015	N/A	N/A	< 5	< 5	N/A
	9/22/2015	< 5	< 5	< 5	< 5	< 5
	9/22/2015	N/A	N/A	N/A	< 5	N/A
	3/29/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	N/A	N/A	N/A	N/A	< 5
	4/5/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	N/A	N/A	N/A
	3/5/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	N/A	N/A	N/A	N/A	< 5
	3/19/2019	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	N/A	< 5	N/A	N/A
	8/27/2019	< 5	< 5	< 5	< 5	< 5
	8/27/2019	N/A	N/A	N/A	N/A	< 5
	3/3/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	N/A	N/A	N/A	N/A
	5/18/2021	< 5	< 5	< 5	< 5	< 5
	5/18/2021	< 5	N/A	N/A	N/A	N/A
	9/14/2021	< 5	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5	< 5
	4/26/2022	N/A	N/A	< 5	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5
	9/13/2022	N/A	N/A	N/A	< 5	N/A
	3/21/2023	< 5	< 5	< 5	< 5	< 5
	8/15/2023	< 5	< 5	< 5	< 5	< 5
	5/7/2024	< 5	< 5	< 5	< 5	< 5
	11/5/2024	< 5	< 5	N/A	< 5	< 5

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Chloroethane, ug/L (CAS NO - 75-00-3)	7/31/2009	N/A	N/A	N/A	N/A	**9.76**
	9/3/2009	**6.51**	**17.3**	N/A	N/A	**6.11**
	12/16/2009	**8.39**	**29.3**	N/A	N/A	**8.37**
	12/16/2009	N/A	N/A	N/A	N/A	**8.61**
	3/15/2010	**7.32**	**23.5**	N/A	N/A	**9.6**
	3/15/2010	N/A	N/A	N/A	N/A	**8.72**
	6/30/2010	**9.9**	**29.1**	N/A	N/A	**7.11**
	6/30/2010	N/A	N/A	N/A	N/A	**7.11**
	9/2/2010	**9.4**	**28.9**	N/A	N/A	**7.51**
	3/8/2011	**6.54**	**25.1**	N/A	N/A	**5.04**
	9/14/2011	**8.34**	**26.9**	N/A	N/A	**6.88**
	3/22/2012	**6.62**	**23.4**	N/A	N/A	**4.53**
	8/20/2012	**9.53**	**37.2**	N/A	N/A	**5.24**
	3/19/2013	**8.83**	**22.8**	N/A	N/A	**4.54**
	7/17/2013	N/A	N/A	< 4	< 4	N/A
	8/22/2013	**9.02**	**13.6**	2.73*	< 4	< 4
	8/22/2013	N/A	N/A	< 4	N/A	N/A
	10/30/2013	N/A	N/A	< 4	0.631*	N/A
	2/11/2014	N/A	N/A	< 4	< 4	N/A
	3/4/2014	**10.1**	**18.3**	< 4	< 4	3.9*
	3/4/2014	N/A	N/A	N/A	< 4	N/A
	10/28/2014	**8.27**	**10**	< 4	1.25*	3.49*
	4/7/2015	**6.78**	**11**	< 4	0.772*	**4.22**
	7/28/2015	N/A	N/A	< 4	1.4*	N/A
	9/22/2015	**7.36**	**11.7**	< 4	**4.97**	3.12*
	9/22/2015	N/A	N/A	N/A	< 4	N/A
	3/29/2016	**6.49**	**8.12**	< 4	< 4	2.7*
	7/13/2016	**8.83**	**9.64**	< 4	< 4	2.72*
	7/13/2016	N/A	N/A	N/A	N/A	2.74*
	4/5/2017	**6.9**	**6.93**	< 4	0.885*	2.7*
	9/19/2017	**7.12**	**8.24**	0.896*	1.43*	**4.22**
	9/19/2017	N/A	**8.16**	N/A	N/A	N/A
	3/5/2018	**6.12**	**6.17**	< 4	< 4	0.944*
	8/7/2018	**7.17**	**6.29**	< 4	< 4	2.07*
	8/7/2018	N/A	N/A	N/A	N/A	< 4
	3/19/2019	**9.49**	**6.11**	< 4	1.54*	1.05*
	3/19/2019	N/A	N/A	< 4	N/A	N/A
	8/27/2019	**9.98**	**6.43**	< 4	< 4	1.96*
	8/27/2019	N/A	N/A	N/A	N/A	2.98*
	3/3/2020	**7.73**	**4.64**	< 4	< 4	< 4
	9/22/2020	**10.7**	**5.07**	< 4	< 4	< 4
	9/22/2020	**9.74**	N/A	N/A	N/A	N/A
	5/18/2021	**10.7**	**5.53**	0.884*	< 4	1.61*
	5/18/2021	**10.9**	N/A	N/A	N/A	N/A
	9/14/2021	**8.31**	**4.36**	< 4	< 4	1.75*
	4/26/2022	**8.8**	3.09*	< 4	< 4	< 4
	4/26/2022	N/A	N/A	< 4	N/A	N/A
	9/13/2022	**7.42**	**5.37**	N/A	< 4	2.21*
	9/13/2022	N/A	N/A	N/A	< 4	N/A
	3/21/2023	**4.97**	3.58*	< 4	< 4	< 4
	8/15/2023	**6.14**	3.88*	< 4	< 4	1.29*
	5/7/2024	**5.66**	**4.06**	< 4	< 4	< 4
	11/5/2024	**4.73**	3.2*	N/A	< 4	1.58*

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Chloroform, ug/L (CAS NO - 67-66-3)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 2	< 2	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 3	< 3	< 3	< 3	< 3
	8/7/2018	N/A	N/A	N/A	N/A	< 3
	3/19/2019	< 3	< 3	< 3	< 3	< 3
	3/19/2019	N/A	N/A	< 3	N/A	N/A
	8/27/2019	< 3	< 3	< 3	< 3	< 3
	8/27/2019	N/A	N/A	N/A	N/A	< 3
	3/3/2020	< 3	< 3	< 3	< 3	< 3
	9/22/2020	< 3	< 3	< 3	< 3	< 3
	9/22/2020	< 3	N/A	N/A	N/A	N/A
	5/18/2021	< 3	< 3	< 3	< 3	< 3
	5/18/2021	< 3	N/A	N/A	N/A	N/A
	9/14/2021	< 3	< 3	< 3	< 3	< 3
	4/26/2022	< 3	< 3	< 3	< 3	< 3
	4/26/2022	N/A	N/A	< 3	N/A	N/A
	9/13/2022	< 3	< 3	N/A	< 3	< 3
	9/13/2022	N/A	N/A	N/A	< 3	N/A
	3/21/2023	< 3	< 3	< 3	< 3	< 3
	8/15/2023	< 3	< 3	< 3	< 3	< 3
	5/7/2024	< 3	< 3	< 3	< 3	< 3
	11/5/2024	< 3	< 3	N/A	< 3	< 3

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Chloromethane, ug/L (CAS NO - 74-87-3)	7/31/2009	N/A	N/A	N/A	N/A	< 3
	9/3/2009	< 3	< 3	N/A	N/A	< 3
	12/16/2009	< 3	< 3	N/A	N/A	< 3
	12/16/2009	N/A	N/A	N/A	N/A	< 3
	3/15/2010	< 3	< 3	N/A	N/A	< 3
	3/15/2010	N/A	N/A	N/A	N/A	< 3
	6/30/2010	< 3	< 3	N/A	N/A	< 3
	6/30/2010	N/A	N/A	N/A	N/A	< 3
	9/2/2010	< 3	< 3	N/A	N/A	< 3
	3/8/2011	< 3	< 3	N/A	N/A	< 3
	9/14/2011	< 3	< 3	N/A	N/A	< 3
	3/22/2012	< 3	< 3	N/A	N/A	< 3
	8/20/2012	< 3	< 3	N/A	N/A	< 3
	3/19/2013	< 3	< 3	N/A	N/A	< 3
	7/17/2013	N/A	N/A	< 3	< 3	N/A
	8/22/2013	0.347*	< 3	< 3	< 3	< 3
	8/22/2013	N/A	N/A	< 3	N/A	N/A
	10/30/2013	N/A	N/A	< 3	< 3	N/A
	2/11/2014	N/A	N/A	< 3	< 3	N/A
	3/4/2014	< 3	< 3	< 3	< 3	< 3
	3/4/2014	N/A	N/A	N/A	< 3	N/A
	10/28/2014	< 3	< 3	< 3	< 3	< 3
	4/7/2015	< 3	< 3	< 3	< 3	< 3
	7/28/2015	N/A	N/A	< 3	< 3	N/A
	9/22/2015	< 3	< 3	0.713*	0.58*	0.699*
	9/22/2015	N/A	N/A	N/A	0.637*	N/A
	3/29/2016	< 3	< 3	< 3	< 3	< 3
	7/13/2016	< 3	< 3	< 3	< 3	< 3
	7/13/2016	N/A	N/A	N/A	N/A	< 3
	4/5/2017	< 3	< 3	< 3	< 3	< 3
	9/19/2017	< 3	< 3	< 3	< 3	< 3
	9/19/2017	N/A	< 3	N/A	N/A	N/A
	3/5/2018	< 3	< 3	< 3	< 3	< 3
	8/7/2018	< 3	< 3	< 3	< 3	< 3
	8/7/2018	N/A	N/A	N/A	N/A	< 3
	3/19/2019	< 3	< 3	< 3	< 3	< 3
	3/19/2019	N/A	N/A	< 3	N/A	N/A
	8/27/2019	< 3	< 3	< 3	< 3	< 3
	8/27/2019	N/A	N/A	N/A	N/A	< 3
	3/3/2020	< 3	< 3	< 3	< 3	< 3
	9/22/2020	< 3	< 3	< 3	< 3	< 3
	9/22/2020	< 3	N/A	N/A	N/A	N/A
	5/18/2021	< 3	< 3	< 3	< 3	< 3
	5/18/2021	< 3	N/A	N/A	N/A	N/A
	9/14/2021	< 3	< 3	< 3	< 3	< 3
	4/26/2022	< 3	< 3	< 3	< 3	< 3
	4/26/2022	N/A	N/A	< 3	N/A	N/A
	9/13/2022	< 3	< 3	N/A	< 3	< 3
	9/13/2022	N/A	N/A	N/A	< 3	N/A
	3/21/2023	< 3	< 3	< 3	< 3	< 3
	8/15/2023	< 3	1.7*	< 3	0.754*	< 3
	5/7/2024	< 3	< 3	< 3	< 3	< 3
	11/5/2024	< 3	< 3	N/A	< 3	< 3

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	7/31/2009	N/A	N/A	N/A	N/A	4.48
	9/3/2009	20.8	6.21	N/A	N/A	3.34
	12/16/2009	29.4	8.73	N/A	N/A	4.54
	12/16/2009	N/A	N/A	N/A	N/A	3.66
	3/15/2010	18.9	7.3	N/A	N/A	4.68
	3/15/2010	N/A	N/A	N/A	N/A	4.86
	6/30/2010	24.7	6.67	N/A	N/A	3.36
	6/30/2010	N/A	N/A	N/A	N/A	3.36
	9/2/2010	17.3	6.89	N/A	N/A	4.11
	3/8/2011	11.3	6.5	N/A	N/A	3.19
	9/14/2011	17.3	5.76	N/A	N/A	3.8
	3/22/2012	8.44	4.88	N/A	N/A	1.48
	8/20/2012	12.7	7.36	N/A	N/A	3.25
	3/19/2013	6.84	3.49	N/A	N/A	1.12
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	6.03	2.19	0.589*	0.424*	3.53
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	0.325*	< 1	N/A
	3/4/2014	5.89	2.36	1.74	< 1	3.51
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	5.03	1.25	0.836*	< 1	4.01
	4/7/2015	5.16	2.04	1.01	< 1	3.17
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	5.18	3.21	< 1	< 1	3.73
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	3.39	3.26	< 1	< 1	2.25
	7/13/2016	5.06	6.17	0.147*	< 1	2.76
	7/13/2016	N/A	N/A	N/A	N/A	2.72
	4/5/2017	2.78	4.93	0.172*	0.238*	2.06
	9/19/2017	3.95	4.75	1.83	0.441*	3.75
	9/19/2017	N/A	4.51	N/A	N/A	N/A
	3/5/2018	2.77	3.66	0.503*	< 1	3.53
	8/7/2018	3.23	2.3	0.537*	< 1	2.97
	8/7/2018	N/A	N/A	N/A	N/A	2.59
	3/19/2019	3.49	4.62	1.77	< 1	1.43
	3/19/2019	N/A	N/A	1.74	N/A	N/A
	8/27/2019	4.03	4.22	1.76	< 1	2.88
	8/27/2019	N/A	N/A	N/A	N/A	2.66
	3/3/2020	3.48	4.03	2.16	< 1	1.04
	9/22/2020	3.63	4.08	1.6	< 1	2.42
	9/22/2020	4.23	N/A	N/A	N/A	N/A
	5/18/2021	3.97	3.12	1.61	< 1	1.59
	5/18/2021	3.41	N/A	N/A	N/A	N/A
	9/14/2021	3.11	0.885*	0.785*	< 1	2.23
	4/26/2022	3.54	1.51	0.61*	< 1	0.936*
	4/26/2022	N/A	N/A	0.574*	N/A	N/A
	9/13/2022	3.64	1.23	N/A	< 1	2.28
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	3.59	1.87	0.352*	< 1	0.303*
	8/15/2023	4.38	1.17	0.441*	< 1	1.8
	5/7/2024	4.22	0.676*	0.645*	< 1	0.254*
	11/5/2024	3.71	0.385*	N/A	< 1	1.44

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	7/31/2009	N/A	N/A	N/A	N/A	< 5
	9/3/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	N/A	N/A	N/A	N/A	< 5
	3/15/2010	< 5	< 5	N/A	N/A	< 5
	3/15/2010	N/A	N/A	N/A	N/A	< 5
	6/30/2010	< 5	< 5	N/A	N/A	< 5
	6/30/2010	N/A	N/A	N/A	N/A	< 5
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 5	< 5	N/A	N/A	< 5
	9/14/2011	< 5	< 5	N/A	N/A	< 5
	3/22/2012	< 5	< 5	N/A	N/A	< 5
	8/20/2012	< 5	< 5	N/A	N/A	< 5
	3/19/2013	< 5	< 5	N/A	N/A	< 5
	7/17/2013	N/A	N/A	< 5	< 5	N/A
	8/22/2013	< 5	< 5	< 5	< 5	< 5
	8/22/2013	N/A	N/A	< 5	N/A	N/A
	10/30/2013	N/A	N/A	< 5	< 5	N/A
	2/11/2014	N/A	N/A	< 5	< 5	N/A
	3/4/2014	< 5	< 5	< 5	< 5	< 5
	3/4/2014	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	< 5	< 5	< 5	< 5
	4/7/2015	< 5	< 5	< 5	< 5	< 5
	7/28/2015	N/A	N/A	< 5	< 5	N/A
	9/22/2015	< 5	< 5	< 5	< 5	< 5
	9/22/2015	N/A	N/A	N/A	< 5	N/A
	3/29/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	N/A	N/A	N/A	N/A	< 5
	4/5/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	N/A	N/A	N/A
	3/5/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	N/A	N/A	N/A	N/A	< 5
	3/19/2019	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	N/A	< 5	N/A	N/A
	8/27/2019	< 5	< 5	< 5	< 5	< 5
	8/27/2019	N/A	N/A	N/A	N/A	< 5
	3/3/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	N/A	N/A	N/A	N/A
	5/18/2021	< 5	< 5	< 5	< 5	< 5
	5/18/2021	< 5	N/A	N/A	N/A	N/A
	9/14/2021	< 5	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5	< 5
	4/26/2022	N/A	N/A	< 5	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5
	9/13/2022	N/A	N/A	N/A	< 5	N/A
	3/21/2023	< 5	< 5	< 5	< 5	< 5
	8/15/2023	< 5	< 5	< 5	< 5	< 5
	5/7/2024	< 5	< 5	< 5	< 5	< 5
	11/5/2024	< 5	< 5	N/A	< 5	< 5

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Ethylbenzene, ug/L (CAS NO - 100-41-4)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	0.272*	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	0.671*	< 1	N/A
	9/22/2015	< 1	< 1	0.626*	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	0.309*	< 1	< 1
	9/19/2017	< 1	< 1	0.61*	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	0.77*	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	0.563*	< 1	< 1
	5/7/2024	< 1	< 1	0.515*	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Iodomethane, ug/L (CAS NO - 74-88-4)	7/31/2009	N/A	N/A	N/A	N/A	< 50
	9/3/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	< 20	< 20	N/A	N/A	< 20
	12/16/2009	N/A	N/A	N/A	N/A	< 20
	3/15/2010	< 10	< 10	N/A	N/A	< 10
	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 50	< 50	N/A	N/A	< 50
	6/30/2010	N/A	N/A	N/A	N/A	< 50
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 10	< 10	N/A	N/A	< 10
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	< 10
	8/20/2012	< 10	< 10	N/A	N/A	< 10
	3/19/2013	< 10	< 10	N/A	N/A	< 10
	7/17/2013	N/A	N/A	< 10	< 10	N/A
	8/22/2013	< 10	< 10	< 10	< 10	< 10
	8/22/2013	N/A	N/A	< 10	N/A	N/A
	10/30/2013	N/A	N/A	< 10	< 10	N/A
	2/11/2014	N/A	N/A	< 10	< 10	N/A
	3/4/2014	< 10	< 10	< 10	< 10	< 10
	3/4/2014	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	< 10	< 10	< 10	< 10
	4/7/2015	< 10	< 10	< 10	< 10	< 10
	7/28/2015	N/A	N/A	< 10	< 10	N/A
	9/22/2015	< 10	< 10	< 10	< 10	< 10
	9/22/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	< 10	< 10	< 10	< 10	1.53*
	7/13/2016	N/A	N/A	N/A	N/A	1*
	4/5/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	N/A	N/A	N/A
	3/5/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	N/A	N/A	N/A	N/A	< 10
	3/19/2019	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	N/A	< 10	N/A	N/A
	8/27/2019	< 10	< 10	< 10	< 10	< 10
	8/27/2019	N/A	N/A	N/A	N/A	< 10
	3/3/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	N/A	N/A	N/A	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
	5/18/2021	< 10	N/A	N/A	N/A	N/A
	9/14/2021	< 10	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10	< 10
	4/26/2022	N/A	N/A	< 10	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10
	9/13/2022	N/A	N/A	N/A	< 10	N/A
	3/21/2023	< 10	< 10	< 10	< 10	< 10
	8/15/2023	< 10	< 10	< 10	< 10	< 10
	5/7/2024	< 10	< 10	< 10	< 10	< 10
	11/5/2024	< 10	< 10	N/A	< 10	< 10

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Methylene Bromide, ug/L (CAS NO - 74-95-3)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 2	< 2	N/A	N/A	< 2
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Methylene Chloride, ug/L (CAS NO - 75-09-2)	7/31/2009	N/A	N/A	N/A	N/A	< 5
	9/3/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	N/A	N/A	N/A	N/A	< 5
	3/15/2010	< 5	< 5	N/A	N/A	< 5
	3/15/2010	N/A	N/A	N/A	N/A	< 5
	6/30/2010	< 5	< 5	N/A	N/A	< 5
	6/30/2010	N/A	N/A	N/A	N/A	< 5
	9/2/2010	< 5	< 5	N/A	N/A	< 5
	3/8/2011	< 5	< 5	N/A	N/A	< 5
	9/14/2011	< 5	< 5	N/A	N/A	< 5
	3/22/2012	< 5	< 5	N/A	N/A	< 5
	8/20/2012	< 5	< 5	N/A	N/A	< 5
	3/19/2013	< 5	< 5	N/A	N/A	< 5
	7/17/2013	N/A	N/A	< 5	< 5	N/A
	8/22/2013	0.445*	0.603*	0.264*	< 5	< 5
	8/22/2013	N/A	N/A	0.339*	N/A	N/A
	10/30/2013	N/A	N/A	< 5	< 5	N/A
	2/11/2014	N/A	N/A	< 5	< 5	N/A
	3/4/2014	< 5	0.227*	< 5	< 5	< 5
	3/4/2014	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	1*	< 5	< 5	< 5
	4/7/2015	< 5	0.302*	< 5	< 5	< 5
	7/28/2015	N/A	N/A	0.402*	1.42*	N/A
	9/22/2015	0.283*	0.661*	< 5	0.288*	< 5
	9/22/2015	N/A	N/A	N/A	0.339*	N/A
	3/29/2016	< 5	0.367*	< 5	< 5	< 5
	7/13/2016	0.268*	0.714*	0.201*	0.291*	0.345*
	7/13/2016	N/A	N/A	N/A	N/A	0.366*
	4/5/2017	0.251*	0.461*	0.257*	< 5	0.203*
	9/19/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	N/A	N/A	N/A
	3/5/2018	< 5	0.307*	< 5	0.291*	< 5
	8/7/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	N/A	N/A	N/A	N/A	< 5
	3/19/2019	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	N/A	< 5	N/A	N/A
	8/27/2019	< 5	< 5	< 5	< 5	< 5
	8/27/2019	N/A	N/A	N/A	N/A	< 5
	3/3/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	N/A	N/A	N/A	N/A
	5/18/2021	< 5	< 5	< 5	< 5	< 5
	5/18/2021	< 5	N/A	N/A	N/A	N/A
	9/14/2021	< 5	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5	< 5
	4/26/2022	N/A	N/A	< 5	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5
	9/13/2022	N/A	N/A	N/A	< 5	N/A
	3/21/2023	< 5	< 5	< 5	< 5	< 5
	8/15/2023	< 5	< 5	< 5	< 5	< 5
	5/7/2024	< 5	< 5	< 5	< 5	< 5
	11/5/2024	< 5	< 5	N/A	< 5	< 5

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Styrene, ug/L (CAS NO - 100-42-5)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 2	< 2	N/A	N/A	< 2
	12/16/2009	N/A	N/A	N/A	N/A	< 2
	3/15/2010	< 5	< 5	N/A	N/A	< 2
	3/15/2010	N/A	N/A	N/A	N/A	< 5
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 4	< 4	N/A	N/A	< 4
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	< 1	0.224*	< 1
	8/22/2013	N/A	N/A	0.269*	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	0.743*	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	< 1	0.22*	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	< 1	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	< 1	< 1	0.531*	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Toluene, ug/L (CAS NO - 108-88-3)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	< 1	0.204*	0.177*	0.201*
	8/22/2013	N/A	N/A	0.2*	N/A	N/A
	10/30/2013	N/A	N/A	0.346*	0.366*	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	0.29*	< 1	< 1
	4/7/2015	< 1	< 1	0.204*	< 1	< 1
	7/28/2015	N/A	N/A	0.694*	< 1	N/A
	9/22/2015	< 1	0.324*	0.381*	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	< 1	< 1	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	< 1	0.213*	0.161*	< 1
	9/19/2017	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	N/A	N/A	N/A
	3/5/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	< 1	< 1	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	< 1	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	< 1	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	< 1	< 1	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	< 1	< 1	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	< 1	< 1	N/A	N/A	< 1
	3/8/2011	< 1	< 1	N/A	N/A	< 1
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	3/22/2012	< 1	< 1	N/A	N/A	< 1
	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	< 1	0.445*	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	< 1	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	0.255*	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	0.474*	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	0.331*	< 1	< 1	< 1
	7/13/2016	0.211*	0.386*	< 1	< 1	< 1
	7/13/2016	N/A	N/A	N/A	N/A	< 1
	4/5/2017	< 1	0.409*	< 1	< 1	< 1
	9/19/2017	< 1	0.441*	0.223*	< 1	< 1
	9/19/2017	N/A	0.459*	N/A	N/A	N/A
	3/5/2018	< 1	0.515*	< 1	< 1	< 1
	8/7/2018	< 1	0.374*	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	0.39*	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	0.337*	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	0.336*	< 1	< 1	< 1
	9/22/2020	< 1	0.444*	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	0.383*	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	0.277*	< 1	< 1	< 1
	4/26/2022	< 1	0.374*	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	0.342*	< 1	< 1	< 1
	5/7/2024	< 1	0.295*	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	7/31/2009	N/A	N/A	N/A	N/A	< 5
	9/3/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	< 5	< 5	N/A	N/A	< 5
	12/16/2009	N/A	N/A	N/A	N/A	< 5
	3/15/2010	< 5	< 5	N/A	N/A	< 5
	3/15/2010	N/A	N/A	N/A	N/A	< 5
	6/30/2010	< 5	< 5	N/A	N/A	< 5
	6/30/2010	N/A	N/A	N/A	N/A	< 5
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 5	< 5	N/A	N/A	< 5
	9/14/2011	< 5	< 5	N/A	N/A	< 5
	3/22/2012	< 5	< 5	N/A	N/A	< 5
	8/20/2012	< 5	< 5	N/A	N/A	< 5
	3/19/2013	< 5	< 5	N/A	N/A	< 5
	7/17/2013	N/A	N/A	< 5	< 5	N/A
	8/22/2013	< 5	< 5	< 5	< 5	< 5
	8/22/2013	N/A	N/A	< 5	N/A	N/A
	10/30/2013	N/A	N/A	< 5	< 5	N/A
	2/11/2014	N/A	N/A	< 5	< 5	N/A
	3/4/2014	< 5	< 5	< 5	< 5	< 5
	3/4/2014	N/A	N/A	N/A	< 5	N/A
	10/28/2014	< 5	< 5	< 5	< 5	< 5
	4/7/2015	< 5	< 5	< 5	< 5	< 5
	7/28/2015	N/A	N/A	< 5	< 5	N/A
	9/22/2015	< 5	< 5	< 5	< 5	< 5
	9/22/2015	N/A	N/A	N/A	< 5	N/A
	3/29/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	< 5	< 5	< 5	< 5	< 5
	7/13/2016	N/A	N/A	N/A	N/A	< 5
	4/5/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	N/A	N/A	N/A
	3/5/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	< 5	< 5	< 5	< 5	< 5
	8/7/2018	N/A	N/A	N/A	N/A	< 5
	3/19/2019	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	N/A	< 5	N/A	N/A
	8/27/2019	< 5	< 5	< 5	< 5	< 5
	8/27/2019	N/A	N/A	N/A	N/A	< 5
	3/3/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	< 5	< 5	< 5	< 5
	9/22/2020	< 5	N/A	N/A	N/A	N/A
	5/18/2021	< 5	< 5	< 5	< 5	< 5
	5/18/2021	< 5	N/A	N/A	N/A	N/A
	9/14/2021	< 5	< 5	< 5	< 5	< 5
	4/26/2022	< 5	< 5	< 5	< 5	< 5
	4/26/2022	N/A	N/A	< 5	N/A	N/A
	9/13/2022	< 5	< 5	N/A	< 5	< 5
	9/13/2022	N/A	N/A	N/A	< 5	N/A
	3/21/2023	< 5	< 5	< 5	< 5	< 5
	8/15/2023	< 5	< 5	< 5	< 5	< 5
	5/7/2024	< 5	< 5	< 5	< 5	< 5
	11/5/2024	< 5	< 5	N/A	< 5	< 5

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	7/31/2009	N/A	N/A	N/A	N/A	< 10
	9/3/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	< 10	< 10	N/A	N/A	< 10
	12/16/2009	N/A	N/A	N/A	N/A	< 10
	3/15/2010	< 10	< 10	N/A	N/A	< 10
	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	< 10
	6/30/2010	N/A	N/A	N/A	N/A	< 10
	9/2/2010	< 10	< 10	N/A	N/A	< 10
	3/8/2011	< 10	< 10	N/A	N/A	< 10
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	< 10
	8/20/2012	< 10	< 10	N/A	N/A	< 10
	3/19/2013	< 10	< 10	N/A	N/A	< 10
	7/17/2013	N/A	N/A	< 10	< 10	N/A
	8/22/2013	< 10	< 10	< 10	< 10	< 10
	8/22/2013	N/A	N/A	< 10	N/A	N/A
	10/30/2013	N/A	N/A	< 10	< 10	N/A
	2/11/2014	N/A	N/A	< 10	< 10	N/A
	3/4/2014	< 10	< 10	< 10	< 10	< 10
	3/4/2014	N/A	N/A	N/A	< 10	N/A
	10/28/2014	< 10	< 10	< 10	< 10	< 10
	4/7/2015	< 10	< 10	< 10	< 10	< 10
	7/28/2015	N/A	N/A	< 10	< 10	N/A
	9/22/2015	< 10	< 10	< 10	< 10	< 10
	9/22/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	N/A	N/A	N/A	N/A	< 10
	4/5/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	N/A	N/A	N/A
	3/5/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	N/A	N/A	N/A	N/A	< 10
	3/19/2019	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	N/A	< 10	N/A	N/A
	8/27/2019	< 10	< 10	< 10	< 10	< 10
	8/27/2019	N/A	N/A	N/A	N/A	< 10
	3/3/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	N/A	N/A	N/A	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
	5/18/2021	< 10	N/A	N/A	N/A	N/A
	9/14/2021	< 10	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10	< 10
	4/26/2022	N/A	N/A	< 10	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10
	9/13/2022	N/A	N/A	N/A	< 10	N/A
	3/21/2023	< 10	< 10	< 10	< 10	< 10
	8/15/2023	< 10	< 10	< 10	< 10	< 10
	5/7/2024	< 10	< 10	< 10	< 10	< 10
	11/5/2024	< 10	< 10	N/A	< 10	< 10

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Trichloroethene, ug/L (CAS NO - 79-01-6)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	2.77	1	N/A	N/A	< 1
	12/16/2009	2.61	1.25	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	2.05	1.49	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	2.38	1.35	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1
	9/2/2010	1.01	1.38	N/A	N/A	< 1
	3/8/2011	< 1	1.31	N/A	N/A	< 1
	9/14/2011	1.07	1.04	N/A	N/A	< 1
	3/22/2012	< 1	1.37	N/A	N/A	< 1
	8/20/2012	< 1	1.6	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	0.513*	0.56*	< 1	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	< 1	0.477*	< 1	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	< 1	0.385*	< 1	< 1	0.312*
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	< 1	1.3	< 1	< 1	< 1
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	0.28*	1.13	< 1	< 1	< 1
	7/13/2016	0.335*	2.05	< 1	< 1	0.229*
	7/13/2016	N/A	N/A	N/A	N/A	0.259*
	4/5/2017	< 1	1.72	< 1	< 1	< 1
	9/19/2017	< 1	1.4	0.433*	0.281*	0.384*
	9/19/2017	N/A	1.43	N/A	N/A	N/A
	3/5/2018	< 1	0.985*	< 1	< 1	< 1
	8/7/2018	< 1	0.669*	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	< 1	1.58	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	0.794*	< 1	< 1	< 1
	8/27/2019	N/A	N/A	N/A	N/A	< 1
	3/3/2020	< 1	0.752*	< 1	< 1	< 1
	9/22/2020	0.525*	0.574*	< 1	< 1	< 1
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	< 1	0.471*	< 1	< 1	< 1
	5/18/2021	< 1	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	< 1	< 1	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	< 1	< 1	N/A	< 1	< 1
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	< 1	< 1	< 1	< 1	< 1
	8/15/2023	< 1	< 1	< 1	< 1	< 1
	5/7/2024	< 1	< 1	< 1	< 1	< 1
	11/5/2024	< 1	< 1	N/A	< 1	< 1

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	7/31/2009	N/A	N/A	N/A	N/A	< 4
	9/3/2009	< 4	< 4	N/A	N/A	< 4
	12/16/2009	< 4	< 4	N/A	N/A	< 4
	12/16/2009	N/A	N/A	N/A	N/A	< 4
	3/15/2010	< 4	< 4	N/A	N/A	< 4
	3/15/2010	N/A	N/A	N/A	N/A	< 4
	6/30/2010	< 4	< 4	N/A	N/A	< 4
	6/30/2010	N/A	N/A	N/A	N/A	< 4
	9/2/2010	< 4	< 4	N/A	N/A	< 4
	3/8/2011	< 4	< 4	N/A	N/A	< 4
	9/14/2011	< 4	< 4	N/A	N/A	< 4
	3/22/2012	< 4	< 4	N/A	N/A	< 4
	8/20/2012	< 5	< 5	N/A	N/A	< 4
	3/19/2013	< 4	< 4	N/A	N/A	< 4
	7/17/2013	N/A	N/A	< 4	< 4	N/A
	8/22/2013	< 4	< 4	< 4	< 4	< 4
	8/22/2013	N/A	N/A	< 4	N/A	N/A
	10/30/2013	N/A	N/A	< 4	< 4	N/A
	2/11/2014	N/A	N/A	< 4	< 4	N/A
	3/4/2014	< 4	< 4	< 4	< 4	< 4
	3/4/2014	N/A	N/A	N/A	< 4	N/A
	10/28/2014	< 4	< 4	< 4	< 4	< 4
	4/7/2015	< 4	< 4	< 4	< 4	< 4
	7/28/2015	N/A	N/A	< 4	< 4	N/A
	9/22/2015	< 4	< 4	< 4	< 4	< 4
	9/22/2015	N/A	N/A	N/A	< 4	N/A
	3/29/2016	< 4	< 4	< 4	< 4	< 4
	7/13/2016	< 4	< 4	< 4	< 4	< 4
	7/13/2016	N/A	N/A	N/A	N/A	< 4
	4/5/2017	< 4	< 4	< 4	< 4	< 4
	9/19/2017	< 4	< 4	< 4	< 4	< 4
	9/19/2017	N/A	< 4	N/A	N/A	N/A
	3/5/2018	< 4	< 4	< 4	< 4	< 4
	8/7/2018	< 4	< 4	< 4	< 4	< 4
	8/7/2018	N/A	N/A	N/A	N/A	< 4
	3/19/2019	< 4	< 4	< 4	< 4	< 4
	3/19/2019	N/A	N/A	< 4	N/A	N/A
	8/27/2019	< 4	< 4	< 4	< 4	< 4
	8/27/2019	N/A	N/A	N/A	N/A	< 4
	3/3/2020	< 4	< 4	< 4	< 4	< 4
	9/22/2020	< 4	< 4	< 4	< 4	< 4
	9/22/2020	< 4	N/A	N/A	N/A	N/A
	5/18/2021	< 4	< 4	< 4	< 4	< 4
	5/18/2021	< 4	N/A	N/A	N/A	N/A
	9/14/2021	< 4	< 4	< 4	< 4	< 4
	4/26/2022	< 4	< 4	< 4	< 4	< 4
	4/26/2022	N/A	N/A	< 4	N/A	N/A
	9/13/2022	< 4	< 4	N/A	< 4	< 4
	9/13/2022	N/A	N/A	N/A	< 4	N/A
	3/21/2023	< 4	< 4	< 4	< 4	< 4
	8/15/2023	< 4	< 4	< 4	< 4	< 4
	5/7/2024	< 4	< 4	< 4	< 4	< 4
	11/5/2024	< 4	< 4	N/A	< 4	< 4

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	7/31/2009	N/A	N/A	N/A	N/A	< 2
	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 2	< 2	N/A	N/A	N/A
	9/14/2011	< 2	< 2	N/A	N/A	< 2
	3/22/2012	< 10	< 10	N/A	N/A	< 10
	8/20/2012	< 10	< 10	N/A	N/A	< 4
	3/19/2013	< 2	< 2	N/A	N/A	< 2
	7/17/2013	N/A	N/A	< 2	< 2	N/A
	8/22/2013	< 2	< 2	< 2	< 2	< 2
	8/22/2013	N/A	N/A	< 2	N/A	N/A
	10/30/2013	N/A	N/A	< 2	< 2	N/A
	2/11/2014	N/A	N/A	< 2	< 2	N/A
	3/4/2014	< 2	< 2	< 2	< 2	< 2
	3/4/2014	N/A	N/A	N/A	< 2	N/A
	10/28/2014	< 10	< 10	< 10	< 10	< 10
	4/7/2015	< 10	< 10	< 10	< 10	< 10
	7/28/2015	N/A	N/A	< 10	< 10	N/A
	9/22/2015	< 10	< 10	< 10	< 10	< 10
	9/22/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	< 10	< 10	< 10	< 10	< 10
	7/13/2016	N/A	N/A	N/A	N/A	< 10
	4/5/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	N/A	N/A	N/A
	3/5/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	< 10	< 10	< 10	< 10	< 10
	8/7/2018	N/A	N/A	N/A	N/A	< 10
	3/19/2019	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	N/A	< 10	N/A	N/A
	8/27/2019	< 10	< 10	< 10	< 10	< 10
	8/27/2019	N/A	N/A	N/A	N/A	< 10
	3/3/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	< 10	< 10	< 10	< 10
	9/22/2020	< 10	N/A	N/A	N/A	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
	5/18/2021	< 10	N/A	N/A	N/A	N/A
	9/14/2021	< 10	< 10	< 10	< 10	< 10
	4/26/2022	< 10	< 10	< 10	< 10	< 10
	4/26/2022	N/A	N/A	< 10	N/A	N/A
	9/13/2022	< 10	< 10	N/A	< 10	< 10
	9/13/2022	N/A	N/A	N/A	< 10	N/A
	3/21/2023	< 10	< 10	< 10	< 10	< 10
	8/15/2023	< 10	< 10	< 10	< 10	< 10
	5/7/2024	< 10	< 10	< 10	< 10	< 10
	11/5/2024	< 10	< 10	N/A	< 10	< 10
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	7/31/2009	N/A	N/A	N/A	N/A	< 1
	9/3/2009	**1.76**	**5.72**	N/A	N/A	< 1
	12/16/2009	**1.81**	**7.82**	N/A	N/A	< 1
	12/16/2009	N/A	N/A	N/A	N/A	< 1
	3/15/2010	**1.99**	**6.61**	N/A	N/A	< 1
	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	**2.22**	**6.51**	N/A	N/A	< 1
	6/30/2010	N/A	N/A	N/A	N/A	< 1

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	9/2/2010	1.42	6.61	N/A	N/A	< 1
	3/8/2011	1.25	6.65	N/A	N/A	< 1
	9/14/2011	1.42	5.54	N/A	N/A	< 1
	3/22/2012	< 1	4.64	N/A	N/A	< 1
	8/20/2012	< 4	7.55	N/A	N/A	< 1
	3/19/2013	< 1	3.34	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A
	8/22/2013	0.961*	1.94	0.234*	< 1	< 1
	8/22/2013	N/A	N/A	< 1	N/A	N/A
	10/30/2013	N/A	N/A	< 1	< 1	N/A
	2/11/2014	N/A	N/A	< 1	< 1	N/A
	3/4/2014	0.965*	2.82	0.574*	< 1	< 1
	3/4/2014	N/A	N/A	N/A	< 1	N/A
	10/28/2014	< 1	< 1	< 1	< 1	< 1
	4/7/2015	0.746*	2.25	< 1	< 1	< 1
	7/28/2015	N/A	N/A	< 1	< 1	N/A
	9/22/2015	0.92*	3.16	< 1	< 1	0.476*
	9/22/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	0.867*	1.97	< 1	< 1	0.323*
	7/13/2016	1.34	3.1	< 1	< 1	0.355*
	7/13/2016	N/A	N/A	N/A	N/A	0.354*
	4/5/2017	0.772*	2.59	< 1	< 1	0.309*
	9/19/2017	0.93*	2.5	0.356*	< 1	0.532*
	9/19/2017	N/A	2.57	N/A	N/A	N/A
	3/5/2018	0.816*	2.04	< 1	< 1	0.472*
	8/7/2018	0.738*	1.45	< 1	< 1	< 1
	8/7/2018	N/A	N/A	N/A	N/A	< 1
	3/19/2019	1.2	2.46	< 1	< 1	< 1
	3/19/2019	N/A	N/A	< 1	N/A	N/A
	8/27/2019	< 1	2.07	0.241*	< 1	0.374*
	8/27/2019	N/A	N/A	N/A	N/A	0.297*
	3/3/2020	0.963*	2.21	< 1	< 1	< 1
	9/22/2020	1.21	2.36	< 1	< 1	0.296*
	9/22/2020	< 1	N/A	N/A	N/A	N/A
	5/18/2021	1.09	2.12	0.274*	< 1	< 1
	5/18/2021	1.09	N/A	N/A	N/A	N/A
	9/14/2021	< 1	< 1	< 1	< 1	< 1
	4/26/2022	0.855*	1.63	< 1	< 1	< 1
	4/26/2022	N/A	N/A	< 1	N/A	N/A
	9/13/2022	1	1.52	N/A	< 1	0.181*
	9/13/2022	N/A	N/A	N/A	< 1	N/A
	3/21/2023	0.774*	1.78	< 1	< 1	< 1
	8/15/2023	0.758*	1.14	< 1	< 1	< 1
	5/7/2024	1.04	0.845*	< 1	< 1	< 1
	11/5/2024	0.695*	0.242*	N/A	< 1	< 1
Xylenes, total, ug/L (CAS NO - 1330-20-7)	7/31/2009	N/A	N/A	N/A	N/A	< 3
	9/3/2009	< 3	< 3	N/A	N/A	< 3
	12/16/2009	< 6	< 6	N/A	N/A	< 6
	12/16/2009	N/A	N/A	N/A	N/A	< 6
	3/15/2010	< 3	< 3	N/A	N/A	< 3
	3/15/2010	N/A	N/A	N/A	N/A	< 3
	6/30/2010	< 3	< 3	N/A	N/A	< 3
	6/30/2010	N/A	N/A	N/A	N/A	< 3
	9/2/2010	< 3	< 3	N/A	N/A	< 3

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Appendix I VOC Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Xylenes, total, ug/L (CAS NO - 1330-20-7)	3/8/2011	< 3	< 3	N/A	N/A	< 3
	9/14/2011	< 3	< 3	N/A	N/A	< 3
	3/22/2012	< 3	< 3	N/A	N/A	< 3
	8/20/2012	< 3	< 3	N/A	N/A	< 3
	3/19/2013	< 3	< 3	N/A	N/A	< 3
	7/17/2013	N/A	N/A	< 3	< 3	N/A
	8/22/2013	< 3	< 3	0.18*	0.172*	< 3
	8/22/2013	N/A	N/A	0.348*	N/A	N/A
	10/30/2013	N/A	N/A	< 3	0.342*	N/A
	2/11/2014	N/A	N/A	< 3	< 3	N/A
	3/4/2014	< 3	< 3	< 3	< 3	< 3
	3/4/2014	N/A	N/A	N/A	< 3	N/A
	10/28/2014	< 3	< 3	0.396*	< 3	< 3
	4/7/2015	< 3	< 3	< 3	< 3	< 3
	7/28/2015	N/A	N/A	1.02*	< 3	N/A
	9/22/2015	< 3	0.202*	0.953*	< 3	< 3
	9/22/2015	N/A	N/A	N/A	< 3	N/A
	3/29/2016	< 3	< 3	< 3	< 3	< 3
	7/13/2016	< 3	0.15*	0.41*	< 3	< 3
	7/13/2016	N/A	N/A	N/A	N/A	< 3
	4/5/2017	< 3	< 3	0.516*	< 3	< 3
	9/19/2017	< 3	< 3	1.03*	< 3	< 3
	9/19/2017	N/A	< 3	N/A	N/A	N/A
	3/5/2018	< 3	< 3	0.335*	< 3	< 3
	8/7/2018	< 3	< 3	< 3	< 3	< 3
	8/7/2018	N/A	N/A	N/A	N/A	< 3
	3/19/2019	< 3	< 3	< 3	< 3	< 3
	3/19/2019	N/A	N/A	< 3	N/A	N/A
	8/27/2019	< 3	< 3	< 3	< 3	< 3
	8/27/2019	N/A	N/A	N/A	N/A	< 3
	3/3/2020	< 3	< 3	< 3	< 3	< 3
	9/22/2020	< 3	< 3	< 3	0.53*	< 3
	9/22/2020	< 3	N/A	N/A	N/A	N/A
	5/18/2021	< 3	< 3	0.492*	< 3	< 3
	5/18/2021	< 3	N/A	N/A	N/A	N/A
	9/14/2021	< 3	< 3	< 3	< 3	< 3
	4/26/2022	< 3	< 3	< 3	< 3	< 3
	4/26/2022	N/A	N/A	< 3	N/A	N/A
	9/13/2022	< 3	< 3	N/A	< 3	< 3
	9/13/2022	N/A	N/A	N/A	< 3	N/A
	3/21/2023	< 3	< 3	0.42*	< 3	< 3
	8/15/2023	< 3	< 3	< 3	< 3	< 3
	5/7/2024	< 3	< 3	1.42*	< 3	< 3
	11/5/2024	< 3	< 3	N/A	< 3	< 3
M&P-Xylene, ug/L (CAS NO - 179601-23-1)	8/20/2012	< 2	< 2	N/A	N/A	< 2
	3/19/2013	< 2	< 2	N/A	N/A	< 2
	7/17/2013	N/A	N/A	< 2	< 2	N/A
O-Xylene, ug/L (CAS NO - 95-47-6)	8/20/2012	< 1	< 1	N/A	N/A	< 1
	3/19/2013	< 1	< 1	N/A	N/A	< 1
	7/17/2013	N/A	N/A	< 1	< 1	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	N/A
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	4/7/2015	N/A	N/A	< 1	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	N/A	< 1
	7/13/2016	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	3/15/2010	N/A	N/A	N/A	N/A	< 5
	6/30/2010	< 5	< 5	N/A	N/A	N/A
	9/14/2011	< 5	< 5	N/A	N/A	< 5
	4/7/2015	N/A	N/A	< 5	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 5	N/A
	3/29/2016	< 5	< 5	< 5	N/A	< 5
	7/13/2016	N/A	N/A	N/A	< 5	N/A
	5/18/2021	< 5	< 5	< 5	< 5	< 5
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	N/A
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	4/7/2015	N/A	N/A	< 1	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	N/A	< 1
	7/13/2016	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	N/A
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	4/7/2015	N/A	N/A	< 1	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	N/A	< 1
	7/13/2016	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
1-Naphthylamine, ug/L (CAS NO - 134-32-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 10.2	< 10	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	3/15/2010	N/A	N/A	N/A	N/A	< 4
	6/30/2010	< 4	< 4	N/A	N/A	N/A
	9/14/2011	< 4	< 4	N/A	N/A	< 4
	4/7/2015	N/A	N/A	< 4	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 4	N/A
	3/29/2016	< 4	< 4	< 4	N/A	< 4
	7/13/2016	N/A	N/A	N/A	< 4	N/A
	5/18/2021	< 4	< 4	< 4	< 4	< 4
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
2,4,5-T [2C], ug/L (CAS NO - 93-76-5)	3/15/2010	N/A	N/A	N/A	N/A	< 0.5
	6/30/2010	< 0.56	< 0.53	N/A	N/A	N/A
	9/14/2011	< 1	< 1	N/A	N/A	< 1.1
	4/7/2015	N/A	N/A	< 1.08	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 1.1	N/A
	3/29/2016	< 1.19	< 1.19	< 1.12	N/A	< 1.09
	7/13/2016	N/A	N/A	N/A	< 1.06	N/A
	5/18/2021	< 1.08	< 1.06	< 1.13	< 1.11	< 1.12

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)	3/15/2010	N/A	N/A	N/A	N/A	< 0.5
	6/30/2010	< 0.56	< 0.53	N/A	N/A	N/A
	9/14/2011	< 1	< 1	N/A	N/A	< 1.1
	4/7/2015	N/A	N/A	< 1.08	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 1.1	N/A
	3/29/2016	< 1.19	< 1.19	< 1.12	N/A	< 1.09
	7/13/2016	N/A	N/A	N/A	< 1.06	N/A
	5/18/2021	< 1.08	< 1.06	< 1.13	< 1.11	< 1.12
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
2,4-D [2C], ug/L (CAS NO - 94-75-7)	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1.1	< 1.1	N/A	N/A	N/A
	9/14/2011	< 1	< 1	N/A	N/A	< 1.1
	4/7/2015	N/A	N/A	< 1.08	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 1.1	N/A
	3/29/2016	< 1.19	< 1.19	< 1.12	N/A	< 1.09
	7/13/2016	N/A	N/A	N/A	< 1.06	N/A
	5/18/2021	< 1.08	< 1.06	< 1.13	1.71	< 1.12
	9/14/2021	N/A	N/A	N/A	< 5.56	N/A
	4/26/2022	N/A	N/A	N/A	0.551*	N/A
	3/21/2023	N/A	N/A	N/A	< 1.02	N/A
	8/15/2023	N/A	N/A	N/A	< 0.981	N/A
	5/7/2024	N/A	N/A	N/A	2.05*	N/A
	11/5/2024	N/A	N/A	N/A	< 0.587	N/A
2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)	3/15/2010	N/A	N/A	N/A	N/A	< 20
	6/30/2010	< 20	< 20	N/A	N/A	N/A
	9/14/2011	< 20	< 20	N/A	N/A	< 20
	4/7/2015	N/A	N/A	< 20.4	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 20.6	N/A
	3/29/2016	< 23.3	< 22.7	< 21.5	N/A	< 22.2
	7/13/2016	N/A	N/A	N/A	< 20.6	N/A
	5/18/2021	< 21.3	< 22.2	< 21.5	< 21.5	< 21.1
	9/14/2021	N/A	N/A	N/A	< 21.1	N/A
2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
2-Methylphenol, ug/L (CAS NO - 95-48-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
2-Naphthylamine, ug/L (CAS NO - 91-59-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 10.2	< 10	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 51	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 51.5	N/A
	3/29/2016	< 58.1	< 56.8	< 53.8	N/A	< 55.6
	7/13/2016	N/A	N/A	N/A	< 51.5	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	3.82*	N/A
	9/22/2015	< 10.2	< 10	N/A	N/A	N/A
	9/23/2015	N/A	< 10000	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	**15.7**	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
	4/26/2022	N/A	N/A	N/A	< 10	N/A
	9/13/2022	N/A	N/A	N/A	< 10	N/A
	3/21/2023	N/A	N/A	N/A	5.54*	N/A
	8/15/2023	N/A	N/A	N/A	3.46*	N/A
	5/7/2024	N/A	N/A	N/A	**14.2**	N/A
	11/5/2024	N/A	N/A	N/A	< 10	N/A
3-Chloropropene, ug/L (CAS NO - 107-05-1)	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 2	< 2	N/A	N/A	N/A
	9/14/2011	< 2	< 2	N/A	N/A	< 2
	4/7/2015	N/A	N/A	< 2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 2	N/A
	3/29/2016	< 2	< 2	< 2	N/A	< 2
	7/13/2016	N/A	N/A	N/A	< 2	N/A
	5/18/2021	< 2	< 2	< 2	< 2	< 2

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	34.3	30.2	N/A	N/A	N/A
	3/8/2011	< 10	< 10	N/A	N/A	N/A
	6/28/2011	< 11.1	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	N/A
	8/20/2012	< 10	< 10	N/A	N/A	N/A
	3/19/2013	< 10	< 10	N/A	N/A	N/A
	8/22/2013	< 10.2	< 10.2	N/A	N/A	N/A
	3/4/2014	< 10.2	< 10.5	N/A	N/A	N/A
	10/28/2014	< 10	< 10	N/A	N/A	N/A
	4/7/2015	< 10	< 10	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/22/2015	< 10.2	< 10	N/A	N/A	N/A
	9/23/2015	< 10.2	< 10	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
4,4`-DDD, ug/L (CAS NO - 72-54-8)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	0.00254*	N/A
	3/29/2016	0.00403*	0.00494*	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	**0.0336**	N/A
	11/18/2016	N/A	N/A	N/A	< 0.0344	N/A
	3/7/2017	N/A	N/A	N/A	0.00403*	N/A
	4/5/2017	N/A	N/A	N/A	0.00568*	N/A
	9/19/2017	N/A	N/A	N/A	0.0123*	N/A
	3/5/2018	N/A	N/A	N/A	0.00267*	N/A
	8/7/2018	N/A	N/A	N/A	< 0.0344	N/A
	3/19/2019	N/A	N/A	N/A	< 0.0344	N/A
	8/27/2019	N/A	N/A	N/A	< 0.0327	N/A
	3/3/2020	N/A	N/A	N/A	0.00983*	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
4,4`-DDE, ug/L (CAS NO - 72-55-9)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	0.00257*	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.00786*	0.00463*	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
4,4`-DDT, ug/L (CAS NO - 50-29-3)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.00673*	0.0128*	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 10.2	< 10	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	75.2	59.7	N/A	N/A	N/A
	3/8/2011	< 10	< 10	N/A	N/A	N/A
	6/28/2011	< 11.1	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	N/A
	8/20/2012	< 10	< 10	N/A	N/A	N/A
	3/19/2013	< 10	< 10	N/A	N/A	N/A
	8/22/2013	< 10.2	< 10.2	N/A	N/A	N/A
	3/4/2014	< 10.2	< 10.5	N/A	N/A	N/A
	10/28/2014	< 10	< 10	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	4/7/2015	< 10	< 10	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/22/2015	< 10.2	< 10	N/A	N/A	N/A
	9/23/2015	< 10.2	< 10	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
4-Nitroaniline, ug/L (CAS NO - 100-01-6)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
7,12-Dimethylbenz [a] anthracene, ug/L (CAS NO - 57-97-6)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Acenaphthene, ug/L (CAS NO - 83-32-9)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Acenaphthene, ug/L (CAS NO - 83-32-9)	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Acenaphthylene, ug/L (CAS NO - 208-96-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Acetonitrile, ug/L (CAS NO - 75-05-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10000
	6/30/2010	< 10000	< 10000	N/A	N/A	N/A
	9/14/2011	< 10000	< 10000	N/A	N/A	< 10000
	4/7/2015	N/A	N/A	1130*	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10000	N/A
	3/29/2016	< 10000	< 10000	< 10000	N/A	< 10000
	7/13/2016	N/A	N/A	N/A	< 10000	N/A
	5/18/2021	< 10000	< 10000	< 10000	< 10000	< 10000
Acetophenone, ug/L (CAS NO - 98-86-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Acrolein, ug/L (CAS NO - 107-02-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	N/A	< 10
	7/13/2016	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
Aldrin, ug/L (CAS NO - 309-00-2)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	< 0.0372	0.00658*	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Anthracene, ug/L (CAS NO - 120-12-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	0.702*
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	20	15.6	N/A	N/A	N/A
	3/8/2011	< 10	< 10	N/A	N/A	N/A
	6/28/2011	< 11.1	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	N/A
	8/20/2012	< 10	< 10	N/A	N/A	N/A
	3/19/2013	< 10	< 10	N/A	N/A	N/A
	8/22/2013	< 10.2	< 10.2	N/A	N/A	N/A
	3/4/2014	< 10.2	< 10.5	N/A	N/A	N/A
	10/28/2014	< 10	< 10	N/A	N/A	N/A
	4/7/2015	< 10	< 10	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	9/22/2015	< 10.2	< 10	N/A	N/A	N/A
	9/23/2015	< 10.2	< 10	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Alpha-BHC, ug/L (CAS NO - 319-84-6)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.00727*	0.00792*	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	0.0164*	< 0.034	< 0.0337	< 0.0348	< 0.039
Beta-BHC, ug/L (CAS NO - 319-85-7)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.032*	0.0116*	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Delta-BHC, ug/L (CAS NO - 319-86-8)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.0111*	0.0118*	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.0106*	< 0.0356	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	1.67*	N/A	N/A
	7/28/2015	N/A	N/A	N/A	1.75*	N/A
	3/29/2016	1.28*	1.19*	1.14*	N/A	1.2*
	7/13/2016	N/A	N/A	N/A	0.809*	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Chlordane, ug/L (CAS NO - 57-74-9)	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 2	< 2	N/A	N/A	N/A
	9/14/2011	< 2	< 2	N/A	N/A	< 2
	4/7/2015	N/A	N/A	< 2.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 2.2	N/A
	3/29/2016	< 2.33	< 2.22	< 2.17	N/A	< 2.33
	7/13/2016	N/A	N/A	N/A	< 2.04	N/A
	5/18/2021	< 2.11	< 2.13	< 2.11	< 2.17	< 2.44
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Chloroprene, ug/L (CAS NO - 126-99-8)	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	N/A
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	4/7/2015	N/A	N/A	< 1	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 1	N/A
	3/29/2016	< 1	< 1	< 1	N/A	< 1
	7/13/2016	N/A	N/A	N/A	< 1	N/A
	5/18/2021	< 1	< 1	< 1	< 1	< 1
Chrysene, ug/L (CAS NO - 218-01-9)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A

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Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Chrysene, ug/L (CAS NO - 218-01-9)	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Cyanide, mg/L (CAS NO - 57-12-5)	3/15/2010	N/A	N/A	N/A	N/A	< 0.01
	6/30/2010	< 0.01	< 0.01	N/A	N/A	N/A
	9/14/2011	< 0.01	< 0.01	N/A	N/A	< 0.01
	4/7/2015	N/A	N/A	< 0.01	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.01	N/A
	3/29/2016	< 0.01	< 0.01	< 0.01	N/A	< 0.01
	7/13/2016	N/A	N/A	N/A	< 0.01	N/A
	5/18/2021	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	0.57*	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Dibenzofuran, ug/L (CAS NO - 132-64-9)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	3/15/2010	N/A	N/A	N/A	N/A	< 3
	6/30/2010	< 3	< 3	N/A	N/A	N/A
	9/14/2011	< 3	< 3	N/A	N/A	< 3
	4/7/2015	N/A	N/A	< 3	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 3	N/A
	3/29/2016	0.475*	0.662*	< 3	N/A	0.363*
	7/13/2016	N/A	N/A	N/A	< 3	N/A
	5/18/2021	< 3	< 3	< 3	< 3	< 3
Dieldrin, ug/L (CAS NO - 60-57-1)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.00947*	0.00778*	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Diethyl phthalate, ug/L (CAS NO - 84-66-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	0.43*	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Dimethoate, ug/L (CAS NO - 60-51-5)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 20.4	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 20.6	N/A
	3/29/2016	2.52*	< 22.7	2.32*	N/A	2.4*
	7/13/2016	N/A	N/A	N/A	< 20.6	N/A
	5/18/2021	< 21.3	< 22.2	< 21.5	< 21.5	< 21.1
Dinoseb, ug/L (CAS NO - 88-85-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Dinoseb, ug/L (CAS NO - 88-85-7)	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Diphenylamine, ug/L (CAS NO - 122-39-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Disulfoton, ug/L (CAS NO - 298-04-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Endosulfan I, ug/L (CAS NO - 959-98-8)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.00865*	< 0.0356	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	0.0132*	< 0.034	< 0.0337	< 0.0348	< 0.039
Endosulfan II, ug/L (CAS NO - 33213-65-9)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	< 0.0372	< 0.0356	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.00455*	< 0.0356	< 0.0348	N/A	0.00426*
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Endrin, ug/L (CAS NO - 72-20-8)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.00797*	0.0069*	< 0.0348	N/A	0.00259*
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Endrin aldehyde, ug/L (CAS NO - 7421-93-4)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	0.0101*	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	< 0.0372	< 0.0356	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Ethyl Methacrylate, ug/L (CAS NO - 97-63-2)	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 5	< 5	N/A	N/A	N/A
	9/14/2011	< 2	< 2	N/A	N/A	< 2
	4/7/2015	N/A	N/A	< 2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 2	N/A
	3/29/2016	< 2	< 2	< 2	N/A	< 2
	7/13/2016	N/A	N/A	N/A	< 2	N/A
	5/18/2021	< 2	< 2	< 2	< 2	< 2
Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Famphur, ug/L (CAS NO - 52-85-7)	3/15/2010	N/A	N/A	N/A	N/A	< 20
	6/30/2010	< 20	< 20	N/A	N/A	N/A
	9/14/2011	< 20	< 20	N/A	N/A	< 20
	4/7/2015	N/A	N/A	< 20.4	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 20.6	N/A
	3/29/2016	< 23.3	< 22.7	< 21.5	N/A	< 22.2
	7/13/2016	N/A	N/A	N/A	< 20.6	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Fluoranthene, ug/L (CAS NO - 206-44-0)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Fluorene, ug/L (CAS NO - 86-73-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Heptachlor, ug/L (CAS NO - 76-44-8)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Heptachlor, ug/L (CAS NO - 76-44-8)	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	< 0.0372	< 0.0356	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	0.00871*	0.0127*	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	< 0.0327	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 20.4	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 20.6	N/A
	3/29/2016	< 23.3	< 22.7	< 21.5	N/A	< 22.2
	7/13/2016	N/A	N/A	N/A	< 20.6	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Hexachloroethane, ug/L (CAS NO - 67-72-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Hexachloropropene, ug/L (CAS NO - 1888-71-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Isobutanol, mg/L (CAS NO - 78-83-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	N/A	< 10
	7/13/2016	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
Isodrin, ug/L (CAS NO - 465-73-6)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Isophorone, ug/L (CAS NO - 78-59-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Isosafrole, ug/L (CAS NO - 120-58-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Kepone, ug/L (CAS NO - 143-50-0)	3/15/2010	N/A	N/A	N/A	N/A	< 20
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Methacrylonitrile, ug/L (CAS NO - 126-98-7)	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	N/A
	9/14/2011	< 1	< 1	N/A	N/A	< 1
	4/7/2015	N/A	N/A	< 10	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10	N/A

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Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Methacrylonitrile, ug/L (CAS NO - 126-98-7)	3/29/2016	< 10	< 10	< 10	N/A	< 10
	7/13/2016	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
Methapyrilene, ug/L (CAS NO - 91-80-5)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 10.2	< 10	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Methoxychlor, ug/L (CAS NO - 72-43-5)	3/15/2010	N/A	N/A	N/A	N/A	< 0.032
	6/30/2010	< 0.032	< 0.032	N/A	N/A	N/A
	9/14/2011	< 0.032	< 0.032	N/A	N/A	< 0.032
	4/7/2015	N/A	N/A	< 0.0352	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.0352	N/A
	3/29/2016	< 0.0372	< 0.0356	< 0.0348	N/A	< 0.0372
	7/13/2016	N/A	N/A	N/A	0.0142*	N/A
	5/18/2021	< 0.0337	< 0.034	< 0.0337	< 0.0348	< 0.039
Methyl Methacrylate, ug/L (CAS NO - 80-62-6)	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 4	< 4	N/A	N/A	N/A
	9/14/2011	< 2	< 2	N/A	N/A	< 2
	4/7/2015	N/A	N/A	< 2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 2	N/A
	3/29/2016	< 2	< 2	< 2	N/A	< 2
	7/13/2016	N/A	N/A	N/A	< 2	N/A
	5/18/2021	< 2	< 2	< 2	< 2	< 2
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 10.2	< 10	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Naphthalene, ug/L (CAS NO - 91-20-3)	3/15/2010	N/A	N/A	N/A	N/A	< 5
	6/30/2010	< 5	< 5	N/A	N/A	N/A
	9/14/2011	< 5	< 5	N/A	N/A	< 5
	4/7/2015	N/A	N/A	< 5	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 5	N/A
	3/29/2016	< 5	< 5	< 5	N/A	< 5
	7/13/2016	N/A	N/A	N/A	< 5	N/A
	5/18/2021	< 5	< 5	< 5	< 5	< 5
Nitrobenzene, ug/L (CAS NO - 98-95-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
N-Nitrosodiethylamine, ug/L (CAS NO - 55-18-5)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 0.002	< 0.002	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
N-Nitrosodimethylamine, ug/L (CAS NO - 62-75-9)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	27.1	20.9	N/A	N/A	N/A
	3/8/2011	< 10	< 10	N/A	N/A	N/A
	6/28/2011	< 11.1	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	N/A
	8/20/2012	< 10	< 10	N/A	N/A	N/A
	3/19/2013	< 10	< 10	N/A	N/A	N/A
	8/22/2013	< 10.2	< 10.2	N/A	N/A	N/A
	3/4/2014	< 10.2	< 10.5	N/A	N/A	N/A
	10/28/2014	< 10	< 10	N/A	N/A	N/A
	4/7/2015	< 10	< 10	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/22/2015	< 10.2	< 10	N/A	N/A	N/A
	9/23/2015	< 0.002	< 0.002	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
N-Nitrosodi-n-butylamine, ug/L (CAS NO - 924-16-3)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 0.002	< 0.002	N/A	N/A	N/A
	3/29/2016	2.45*	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
N-Nitrosodi-n-propylamine, ug/L (CAS NO - 621-64-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 0.002	< 0.002	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 0.02	< 0.02	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
N-Nitrosomethylethylamine, ug/L (CAS NO - 10595-95-6)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 0.002	< 0.002	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
N-Nitrosopiperidine, ug/L (CAS NO - 100-75-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 0.002	< 0.002	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	16.1	12.7	N/A	N/A	N/A
	3/8/2011	< 10	< 10	N/A	N/A	N/A
	6/28/2011	< 11.1	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	3/22/2012	< 10	< 10	N/A	N/A	N/A
	8/20/2012	< 10	< 10	N/A	N/A	N/A
	3/19/2013	< 10	< 10	N/A	N/A	N/A
	8/22/2013	< 10.2	< 10.2	N/A	N/A	N/A
	3/4/2014	< 10.2	< 10.5	N/A	N/A	N/A
	10/28/2014	< 10	< 10	N/A	N/A	N/A
	4/7/2015	< 10	< 10	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/22/2015	< 10.2	< 10	N/A	N/A	N/A
	9/23/2015	< 0.002	< 0.002	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
O-Toluidine, ug/L (CAS NO - 95-53-4)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	9/23/2015	< 10.2	< 10	N/A	N/A	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Parathion-Ethyl, ug/L (CAS NO - 56-38-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	1.39*	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Parathion-Methyl, ug/L (CAS NO - 298-00-0)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
PCB-1016, ug/L (CAS NO - 12674-11-2)	3/15/2010	N/A	N/A	N/A	N/A	< 0.8
	6/30/2010	< 0.8	< 0.8	N/A	N/A	N/A
	9/14/2011	< 0.8	< 0.8	N/A	N/A	< 0.8
	4/7/2015	N/A	N/A	< 0.8	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.842	N/A
	3/29/2016	< 0.909	< 0.92	< 0.87	N/A	< 0.851
	7/13/2016	N/A	N/A	N/A	< 0.825	N/A
	5/18/2021	< 0.842	< 0.851	< 0.842	< 0.87	< 0.976
PCB-1221, ug/L (CAS NO - 11104-28-2)	3/15/2010	N/A	N/A	N/A	N/A	< 0.8
	6/30/2010	< 0.8	< 0.8	N/A	N/A	N/A
	9/14/2011	< 0.8	< 0.8	N/A	N/A	< 0.8
	4/7/2015	N/A	N/A	< 0.8	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.842	N/A
	3/29/2016	< 0.909	< 0.92	< 0.87	N/A	< 0.851
	7/13/2016	N/A	N/A	N/A	< 0.825	N/A
	5/18/2021	< 0.842	< 0.851	< 0.842	< 0.87	< 0.976
PCB-1232, ug/L (CAS NO - 11141-16-5)	3/15/2010	N/A	N/A	N/A	N/A	< 0.8
	6/30/2010	< 0.8	< 0.8	N/A	N/A	N/A
	9/14/2011	< 0.8	< 0.8	N/A	N/A	< 0.8
	4/7/2015	N/A	N/A	< 0.8	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.842	N/A
	3/29/2016	< 0.909	< 0.92	< 0.87	N/A	< 0.851
	7/13/2016	N/A	N/A	N/A	< 0.825	N/A
	5/18/2021	< 0.842	< 0.851	< 0.842	< 0.87	< 0.976
PCB-1242, ug/L (CAS NO - 53469-21-9)	3/15/2010	N/A	N/A	N/A	N/A	< 0.8
	6/30/2010	< 0.8	< 0.8	N/A	N/A	N/A
	9/14/2011	< 0.8	< 0.8	N/A	N/A	< 0.8
	4/7/2015	N/A	N/A	< 0.8	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.842	N/A
	3/29/2016	< 0.909	< 0.92	< 0.87	N/A	< 0.851
	7/13/2016	N/A	N/A	N/A	< 0.825	N/A
	5/18/2021	< 0.842	< 0.851	< 0.842	< 0.87	< 0.976
PCB-1248, ug/L (CAS NO - 12672-29-6)	3/15/2010	N/A	N/A	N/A	N/A	< 0.8
	6/30/2010	< 0.8	< 0.8	N/A	N/A	N/A
	9/14/2011	< 0.8	< 0.8	N/A	N/A	< 0.8
	4/7/2015	N/A	N/A	< 0.8	N/A	N/A

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Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
PCB-1248, ug/L (CAS NO - 12672-29-6)	7/28/2015	N/A	N/A	N/A	< 0.842	N/A
	3/29/2016	< 0.909	< 0.92	< 0.87	N/A	< 0.851
	7/13/2016	N/A	N/A	N/A	< 0.825	N/A
	5/18/2021	< 0.842	< 0.851	< 0.842	< 0.87	< 0.976
PCB-1254, ug/L (CAS NO - 11097-69-1)	3/15/2010	N/A	N/A	N/A	N/A	< 0.8
	6/30/2010	< 0.8	< 0.8	N/A	N/A	N/A
	9/14/2011	< 0.8	< 0.8	N/A	N/A	< 0.8
	4/7/2015	N/A	N/A	< 0.8	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.842	N/A
	3/29/2016	< 0.909	< 0.92	< 0.87	N/A	< 0.851
	7/13/2016	N/A	N/A	N/A	< 0.825	N/A
	5/18/2021	< 0.842	< 0.851	< 0.842	< 0.87	< 0.976
PCB-1260, ug/L (CAS NO - 11096-82-5)	3/15/2010	N/A	N/A	N/A	N/A	< 0.8
	6/30/2010	< 0.8	< 0.8	N/A	N/A	N/A
	9/14/2011	< 0.8	< 0.8	N/A	N/A	< 0.8
	4/7/2015	N/A	N/A	< 0.8	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 0.842	N/A
	3/29/2016	< 0.909	< 0.92	< 0.87	N/A	< 0.851
	7/13/2016	N/A	N/A	N/A	< 0.825	N/A
	5/18/2021	< 0.842	< 0.851	< 0.842	< 0.87	< 0.976
Pentachlorobenzene, ug/L (CAS NO - 608-93-5)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Pentachloronitrobenzene, ug/L (CAS NO - 82-68-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
Phenacetin, ug/L (CAS NO - 62-44-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Phenanthrene, ug/L (CAS NO - 85-01-8)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Phenol, ug/L (CAS NO - 108-95-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
	9/14/2021	N/A	N/A	N/A	< 10.5	N/A
Phorate, ug/L (CAS NO - 298-02-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Pronamide, ug/L (CAS NO - 23950-58-5)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Propionitrile, ug/L (CAS NO - 107-12-0)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10	N/A
	3/29/2016	< 10	< 10	< 10	N/A	< 10
	7/13/2016	N/A	N/A	N/A	< 10	N/A
	5/18/2021	< 10	< 10	< 10	< 10	< 10
Pyrene, ug/L (CAS NO - 129-00-0)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Safrole, ug/L (CAS NO - 94-59-7)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Safrole, ug/L (CAS NO - 94-59-7)	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Sulfide, mg/L (CAS NO - 18496-25-8)	3/15/2010	N/A	N/A	N/A	N/A	< 1
	6/30/2010	< 1	< 1	N/A	N/A	N/A
	9/14/2011	< 1	< 1	N/A	N/A	**0.53**
	3/19/2013	N/A	N/A	N/A	N/A	< 1
	8/22/2013	N/A	N/A	N/A	N/A	0.648*
	3/4/2014	N/A	N/A	N/A	N/A	< 1
	10/28/2014	N/A	N/A	N/A	N/A	< 1
	4/7/2015	N/A	N/A	< 1	N/A	< 1
	7/28/2015	N/A	N/A	N/A	< 1	N/A
	9/22/2015	N/A	N/A	N/A	N/A	< 1
	3/29/2016	< 1	< 1	< 1	N/A	< 1
	7/13/2016	N/A	N/A	N/A	< 1	< 1
	4/5/2017	N/A	N/A	N/A	N/A	< 1
	5/18/2021	< 1	< 1	< 1	0.622*	< 1
Thionazin, ug/L (CAS NO - 297-97-2)	3/15/2010	N/A	N/A	N/A	N/A	< 10
	6/30/2010	< 10	< 10	N/A	N/A	N/A
	9/14/2011	< 10	< 10	N/A	N/A	< 10
	4/7/2015	N/A	N/A	< 10.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 10.3	N/A
	3/29/2016	< 11.6	< 11.4	< 10.8	N/A	< 11.1
	7/13/2016	N/A	N/A	N/A	< 10.3	N/A
	5/18/2021	< 10.6	< 11.1	< 10.8	< 10.8	< 10.5
Toxaphene, ug/L (CAS NO - 8001-35-2)	3/15/2010	N/A	N/A	N/A	N/A	< 2
	6/30/2010	< 2	< 2	N/A	N/A	N/A
	9/14/2011	< 2	< 2	N/A	N/A	< 2
	4/7/2015	N/A	N/A	< 2.2	N/A	N/A
	7/28/2015	N/A	N/A	N/A	< 2.2	N/A
	3/29/2016	< 2.33	< 2.22	< 2.17	N/A	< 2.33
	7/13/2016	N/A	N/A	N/A	< 2.04	N/A
	5/18/2021	< 2.11	< 2.13	< 2.11	< 2.17	< 2.44
Ammonia as N, mg/L (CAS NO - 7664-41-7)	4/5/2012	< 0.2	**0.335**	N/A	N/A	< 0.2
	10/28/2014	**0.333**	**0.269**	N/A	N/A	0.125*
	7/28/2015	0.196*	**0.43**	N/A	N/A	0.172*
	7/28/2015	0.196*	**0.43**	N/A	N/A	0.172*
	9/22/2015	**0.478**	**0.311**	< 0.2	N/A	0.104*
	3/29/2016	**0.274**	**0.291**	< 0.2	< 0.2	< 0.2
Dissolved Organic Carbon, mg/L (CAS NO - DOC)	10/28/2014	**3.67**	**9.32**	N/A	N/A	**2.6**
Ethane, Dissolved, mg/L (CAS NO - 74-84-0)	8/22/2013	< 0.005	N/A	N/A	N/A	< 0.005
Ethene, Dissolved, mg/L (CAS NO - 74-85-1)	8/22/2013	< 0.005	N/A	N/A	N/A	< 0.005
Iron, Total, mg/L (CAS NO - 7439-89-6)	10/28/2014	**7.41**	**35**	N/A	N/A	**25**
	7/28/2015	**10.6**	**44.2**	N/A	N/A	**29.2**
	7/28/2015	**10.6**	**44.2**	N/A	N/A	**29.2**
	9/22/2015	**32.4**	**36.5**	**4.64**	N/A	**26**
	3/29/2016	**10.1**	**38.9**	**4.56**	**0.477**	**19.9**
	9/14/2021	N/A	**29.3**	N/A	N/A	N/A
	9/13/2022	**20.8**	**41.1**	N/A	**4.46**	**23.5**
	3/21/2023	N/A	N/A	**7.77**	N/A	N/A
	5/7/2024	**24.2**	**43.8**	**19.5**	**3**	**3.67**

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Manganese, mg/L (CAS NO - 7439-96-5)	10/28/2014	59.4	1.55	N/A	N/A	0.816
	7/28/2015	13.7	0.88	N/A	N/A	0.77
	7/28/2015	13.7	0.88	N/A	N/A	0.77
	9/22/2015	16.8	0.855	0.567	N/A	0.801
	3/29/2016	13.1	0.958	0.539	0.0627	0.914
	9/14/2021	N/A	1.02	N/A	N/A	N/A
	9/13/2022	13.4	0.817	N/A	1.97	0.533
	3/21/2023	N/A	N/A	2.05	N/A	N/A
	5/7/2024	11	0.972	4.35	1.57	0.117
Methane, Dissolved, mg/L (CAS NO - 74-82-8)	10/28/2014	0.0385	0.129	N/A	N/A	0.0439
	7/28/2015	2.23	3.66	N/A	N/A	1.94
	7/28/2015	2.23	3.66	N/A	N/A	1.94
	9/22/2015	3.64	3.22	0.306	N/A	1.92
	3/29/2016	3.04	4.1	1.23	0.00299*	2.07
Nitrate (NO3), mg/L (CAS NO - 14797-55-8)	8/22/2013	< 0.1	N/A	N/A	N/A	< 0.1
	10/28/2014	0.18	< 0.1	N/A	N/A	< 0.1
	7/28/2015	< 0.1	< 0.1	N/A	N/A	< 0.1
	7/28/2015	< 0.1	< 0.1	N/A	N/A	< 0.1
	9/22/2015	< 0.1	< 0.1	< 0.1	N/A	< 0.1
	3/29/2016	0.0873*	< 0.1	< 0.1	< 0.1	< 0.1
	9/13/2022	0.386	0.903	N/A	< 0.5	< 0.5
	3/21/2023	N/A	N/A	< 0.1	N/A	N/A
	5/7/2024	0.108*	< 0.2	< 0.2	< 0.2	< 0.2
Sulfate, mg/L (CAS NO - 14808-79-8)	4/5/2012	14.2	6.27	N/A	N/A	42.9
	8/22/2013	15	3.39*	N/A	N/A	47.7
	10/28/2014	16.5	3.1*	N/A	N/A	53.4
	7/28/2015	15.3	2.9*	N/A	N/A	51.7
	7/28/2015	15.3	2.9*	N/A	N/A	51.7
	9/22/2015	N/A	N/A	44.4	N/A	N/A
	3/29/2016	21.8	1.01	44.9	10.8	41.8
	9/14/2021	N/A	< 5	N/A	N/A	N/A
	9/13/2022	25.1	< 5	N/A	8.3	41
	3/21/2023	N/A	N/A	41.4	N/A	N/A
	5/7/2024	26.9	0.448*	29	0.531*	31.5
Total Organic Carbon, mg/L (CAS NO - TOC)	8/22/2013	1.94	N/A	N/A	N/A	4.08
	10/28/2014	2.36	8.92	N/A	N/A	2.72
	7/28/2015	5.47	6.59	N/A	N/A	3.16
	7/28/2015	5.47	6.59	N/A	N/A	3.16
	9/22/2015	5.76	6.2	0.902*	N/A	2.97
	3/29/2016	4.02	6.24	1.48	7.12	2.93
	9/13/2022	9.24	6.59	N/A	4.6	4.1
	3/21/2023	N/A	N/A	1.25	N/A	N/A
	5/7/2024	5.05	6.01	2.34	5.41	4.01
Alkalinity, Phenol. [CaCO3], mg/L (CAS NO - PALK)	4/5/2012	< 5	< 5	N/A	N/A	< 5
	8/22/2013	< 5	< 5	N/A	N/A	< 5
	10/28/2014	< 5	< 5	N/A	N/A	< 5
Alkalinity, Total [CaCO3], mg/L (CAS NO - TALK)	4/5/2012	784	1170	N/A	N/A	867
	8/22/2013	824	1140	N/A	N/A	903
	10/28/2014	810	1160	N/A	N/A	867
Bicarbonate, mg/L (CAS NO - BICARB)	4/5/2012	784	1170	N/A	N/A	867
	8/22/2013	824	1140	N/A	N/A	903
	10/28/2014	810	1160	N/A	N/A	867
	9/22/2015	N/A	N/A	423	N/A	N/A
	3/29/2016	N/A	N/A	449	306	N/A

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Other Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Calcium, mg/L (CAS NO - 7440-70-2)	4/5/2012	**216**	**273**	N/A	N/A	**213**
	8/22/2013	**464**	**377**	N/A	N/A	**245**
	10/28/2014	**268**	**328**	N/A	N/A	**229**
	9/22/2015	N/A	N/A	**111**	N/A	N/A
	3/29/2016	N/A	N/A	**123**	**43.4**	N/A
Carbonate, mg/L (CAS NO - CARB)	4/5/2012	< 5	< 5	N/A	N/A	< 5
	8/22/2013	< 5	< 5	N/A	N/A	< 5
	10/28/2014	< 5	< 5	N/A	N/A	< 5
	9/22/2015	N/A	N/A	< 5	N/A	N/A
	3/29/2016	N/A	N/A	< 5	< 5	N/A
Chloride, mg/L (CAS NO - 16887-00-6)	4/5/2012	**158**	**36.1**	N/A	N/A	**15.8**
	8/22/2013	**169**	**66.7**	N/A	N/A	**15.9**
	10/28/2014	**224**	**53.1**	N/A	N/A	**18.5**
	9/22/2015	N/A	N/A	**34.8**	N/A	N/A
	3/29/2016	N/A	N/A	**30.4**	**9.4**	**16.7**
Magnesium, mg/L (CAS NO - 7439-95-4)	4/5/2012	**107**	**128**	N/A	N/A	**86.5**
	8/22/2013	**152**	**147**	N/A	N/A	**99.5**
	10/28/2014	**128**	**139**	N/A	N/A	**98.9**
	9/22/2015	N/A	N/A	**57.2**	N/A	N/A
	3/29/2016	N/A	N/A	**53.8**	**14.9**	N/A
Potassium, mg/L (CAS NO - 7440-09-7)	4/5/2012	< 1	< 1	N/A	N/A	**1.54**
	8/22/2013	**1.17**	0.817*	N/A	N/A	**1.36**
	10/28/2014	**1.42**	0.944*	N/A	N/A	0.968*
	9/22/2015	N/A	N/A	< 1	N/A	N/A
	3/29/2016	N/A	N/A	0.427*	**1.68**	N/A
Sodium, mg/L (CAS NO - 7440-23-5)	4/5/2012	**27.2**	**18.1**	N/A	N/A	**10.4**
	8/22/2013	**31.9**	**23.9**	N/A	N/A	**12**
	10/28/2014	**36.9**	**22**	N/A	N/A	**12.3**
	9/22/2015	N/A	N/A	**6.55**	N/A	N/A
	3/29/2016	N/A	N/A	**6.3**	**58.3**	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Source

Total Natural_Attenuations Constituents	Sample Date	MW-20 DNG	MW-24 DNG	MW-32 DNG	MW-33 DNG	MW-90-11 DNG
Iron, Total, mg/L (CAS NO - 7439-89-6)	10/28/2014	7.41	35	N/A	N/A	25
	7/28/2015	10.6	44.2	N/A	N/A	29.2
	7/28/2015	10.6	44.2	N/A	N/A	29.2
	9/22/2015	32.4	36.5	4.64	N/A	26
	3/29/2016	10.1	38.9	4.56	0.477	19.9
	9/14/2021	N/A	29.3	N/A	N/A	N/A
	9/13/2022	20.8	41.1	N/A	4.46	23.5
	3/21/2023	N/A	N/A	7.77	N/A	N/A
	5/7/2024	24.2	43.8	19.5	3	3.67
Manganese, mg/L (CAS NO - 7439-96-5)	10/28/2014	59.4	1.55	N/A	N/A	0.816
	7/28/2015	13.7	0.88	N/A	N/A	0.77
	7/28/2015	13.7	0.88	N/A	N/A	0.77
	9/22/2015	16.8	0.855	0.567	N/A	0.801
	3/29/2016	13.1	0.958	0.539	0.0627	0.914
	9/14/2021	N/A	1.02	N/A	N/A	N/A
	9/13/2022	13.4	0.817	N/A	1.97	0.533
	3/21/2023	N/A	N/A	2.05	N/A	N/A
	5/7/2024	11	0.972	4.35	1.57	0.117
Nitrate (NO3), mg/L (CAS NO - 14797-55-8)	8/22/2013	< 0.1	N/A	N/A	N/A	< 0.1
	10/28/2014	0.18	< 0.1	N/A	N/A	< 0.1
	7/28/2015	< 0.1	< 0.1	N/A	N/A	< 0.1
	7/28/2015	< 0.1	< 0.1	N/A	N/A	< 0.1
	9/22/2015	< 0.1	< 0.1	< 0.1	N/A	< 0.1
	3/29/2016	0.0873*	< 0.1	< 0.1	< 0.1	< 0.1
	9/13/2022	0.386	0.903	N/A	< 0.5	< 0.5
	3/21/2023	N/A	N/A	< 0.1	N/A	N/A
	5/7/2024	0.108*	< 0.2	< 0.2	< 0.2	< 0.2
Sulfate, mg/L (CAS NO - 14808-79-8)	4/5/2012	14.2	6.27	N/A	N/A	42.9
	8/22/2013	15	3.39*	N/A	N/A	47.7
	10/28/2014	16.5	3.1*	N/A	N/A	53.4
	7/28/2015	15.3	2.9*	N/A	N/A	51.7
	7/28/2015	15.3	2.9*	N/A	N/A	51.7
	9/22/2015	N/A	N/A	44.4	N/A	N/A
	3/29/2016	21.8	1.01	44.9	10.8	41.8
	9/14/2021	N/A	< 5	N/A	N/A	N/A
	9/13/2022	25.1	< 5	N/A	8.3	41
	3/21/2023	N/A	N/A	41.4	N/A	N/A
	5/7/2024	26.9	0.448*	29	0.531*	31.5
Total Organic Carbon, mg/L (CAS NO - TOC)	8/22/2013	1.94	N/A	N/A	N/A	4.08
	10/28/2014	2.36	8.92	N/A	N/A	2.72
	7/28/2015	5.47	6.59	N/A	N/A	3.16
	7/28/2015	5.47	6.59	N/A	N/A	3.16
	9/22/2015	5.76	6.2	0.902*	N/A	2.97
	3/29/2016	4.02	6.24	1.48	7.12	2.93
	9/13/2022	9.24	6.59	N/A	4.6	4.1
	3/21/2023	N/A	N/A	1.25	N/A	N/A
	5/7/2024	5.05	6.01	2.34	5.41	4.01

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

Appendix C-4

Summary of Groundwater Chemistry – Bracketing

SCS ENGINEERS

Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - Bracketing

Appendix I VOC Constituents	Sample Date	MW-34 DNG	MW-90-18 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	8/1/2012	N/A	< 1
	10/30/2014	N/A	< 1
	7/28/2015	N/A	< 1
	7/28/2015	N/A	< 1
	9/23/2015	N/A	< 1
	3/29/2016	< 1	< 1
	8/7/2018	N/A	< 1
	3/26/2019	N/A	< 1
	8/27/2019	< 1	< 1
	3/3/2020	< 1	N/A
	3/24/2020	N/A	< 1
	9/22/2020	N/A	< 1
	5/18/2021	< 1	< 1
	9/13/2022	N/A	< 1
	3/21/2023	N/A	< 1
	8/15/2023	N/A	< 1
	5/7/2024	N/A	< 1
	11/5/2024	N/A	< 1

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

Appendix D

Statistical Output

Attachment A

1st 2024 Statistical Evaluation Output

Time Series Plot

Water Table Aquifer

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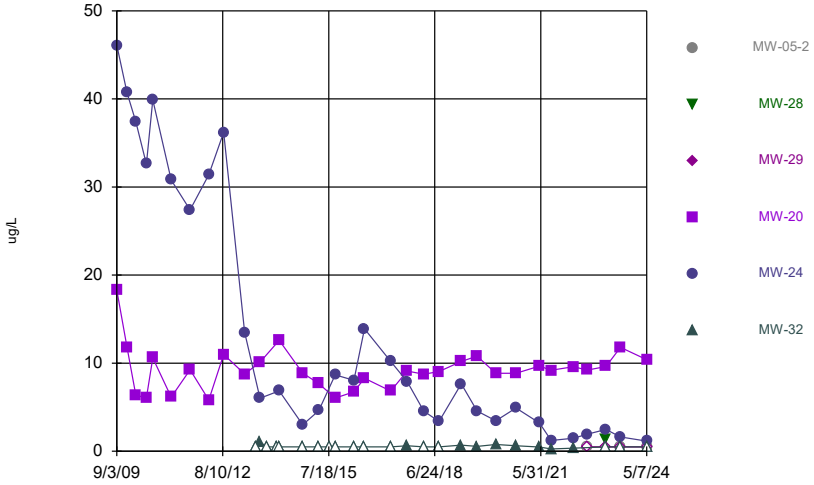
Hollow symbols indicate censored values.

Time Series



Constituent: 1,1-Dichloroethane Analysis Run 6/24/2024 5:24 PM View: 2024SSN - Time Series Main + S
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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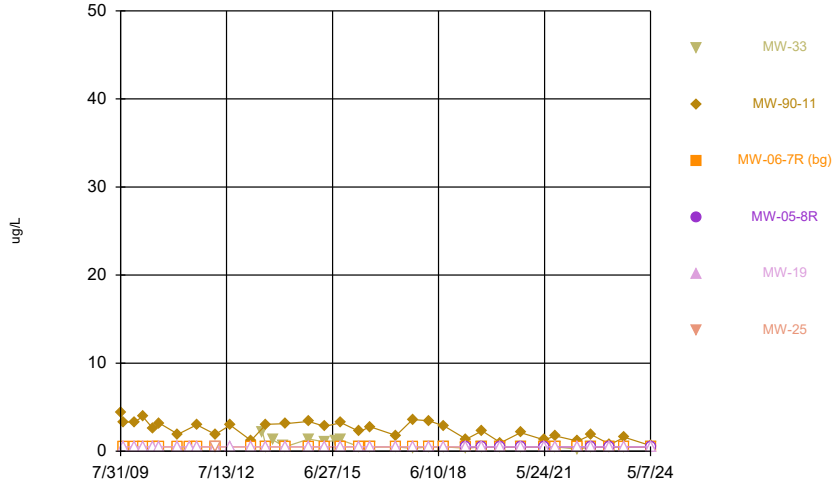
Hollow symbols indicate censored values.

Time Series



Constituent: 1,1-Dichloroethane Analysis Run 6/24/2024 5:24 PM View: 2024SSN - Time Series Main + S
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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Hollow symbols indicate censored values.

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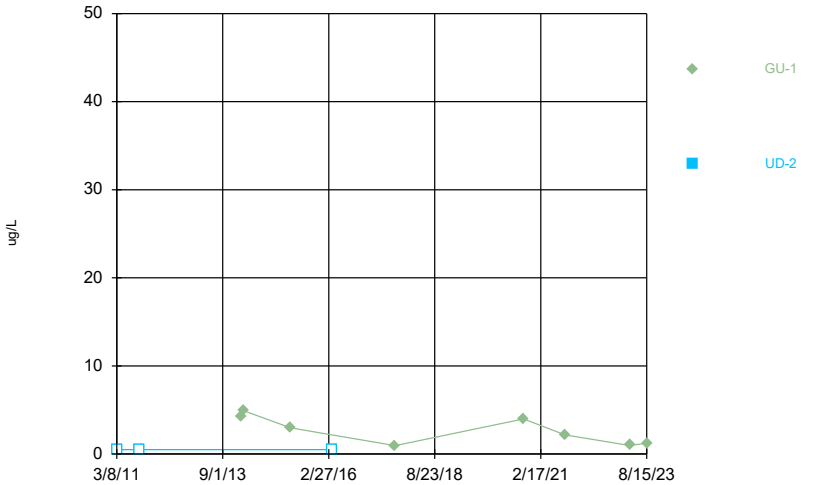
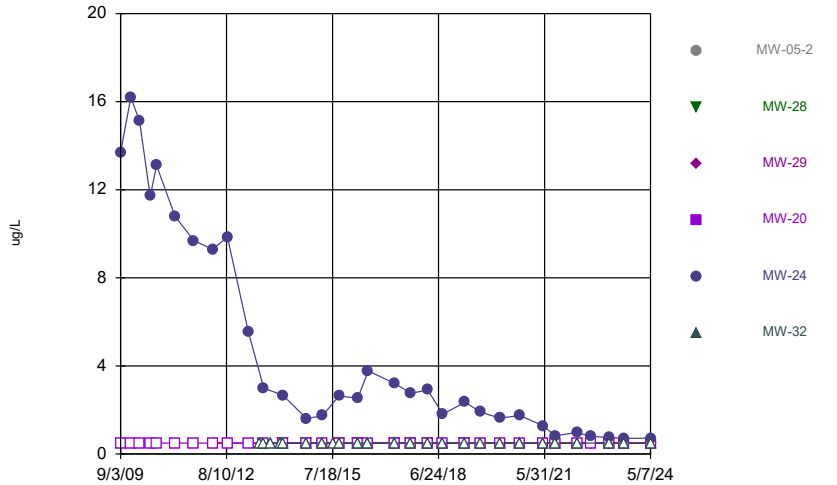


Constituent: 1,1-Dichloroethane Analysis Run 6/24/2024 5:24 PM View: 2024SSN - Time Series Main + S
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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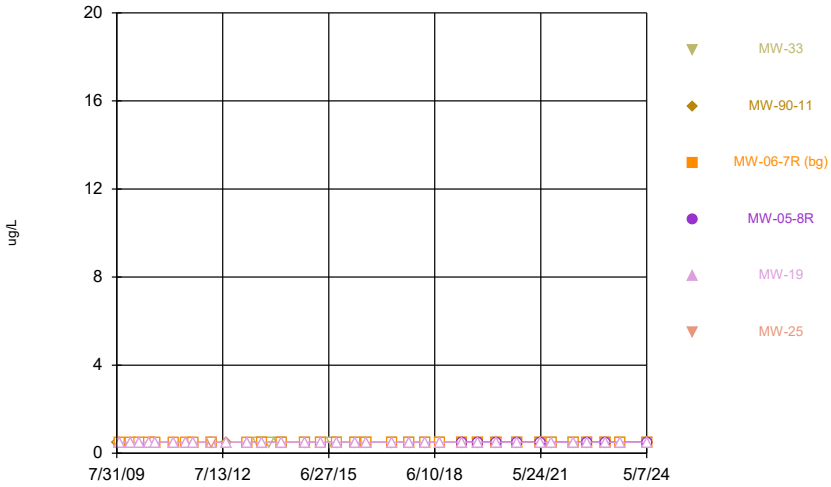
Hollow symbols indicate censored values.

Time Series



Constituent: 1,2-Dichloropropane Analysis Run 6/24/2024 5:24 PM View: 2024SSN - Time Series Main +
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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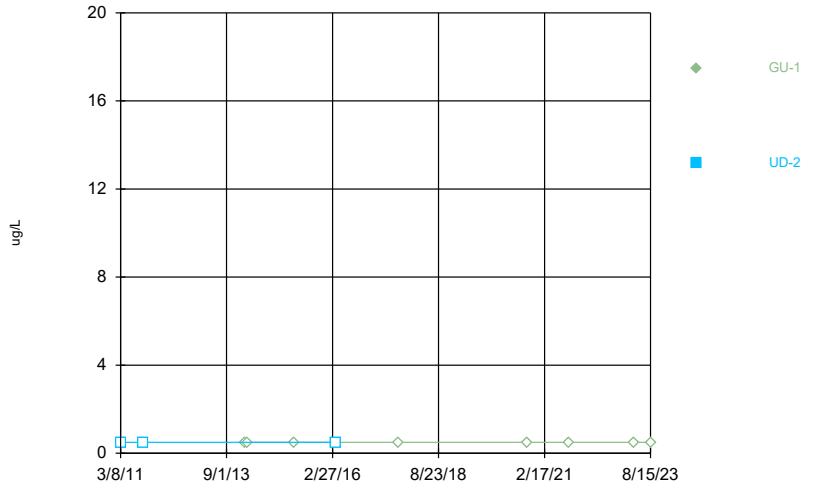
Hollow symbols indicate censored values.

Time Series



Constituent: 1,2-Dichloropropane Analysis Run 6/24/2024 5:24 PM View: 2024SSN - Time Series Main +
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Hollow symbols indicate censored values.

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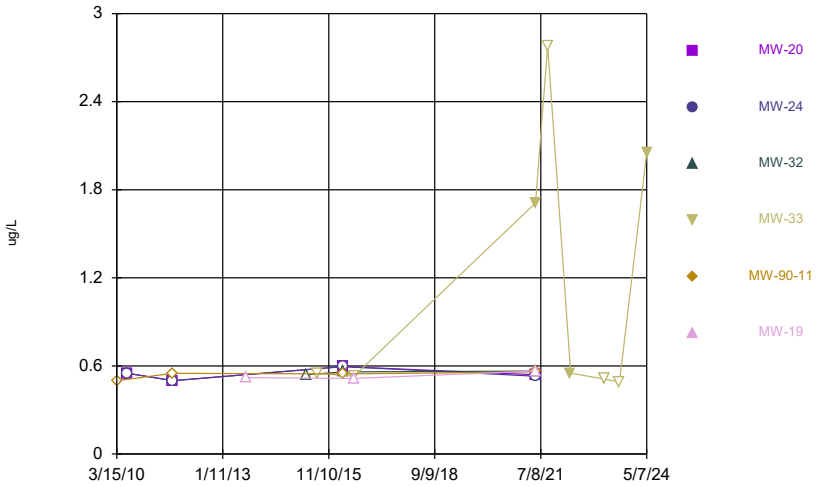

Constituent: 2,4-D [2C] Analysis Run 6/24/2024 5:24 PM View: 2024SSN - Time Series Main + Source + A
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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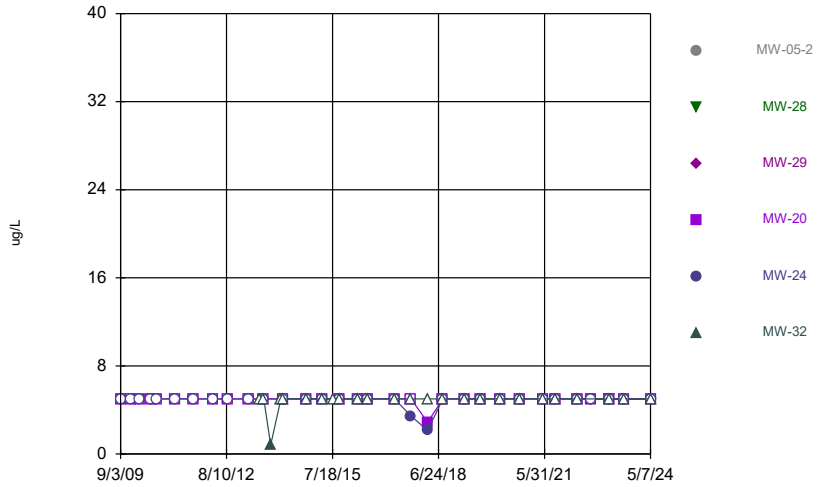
Time Series



Constituent: 2-Butanone Analysis Run 6/24/2024 5:24 PM View: 2024SSN - Time Series Main + Source +
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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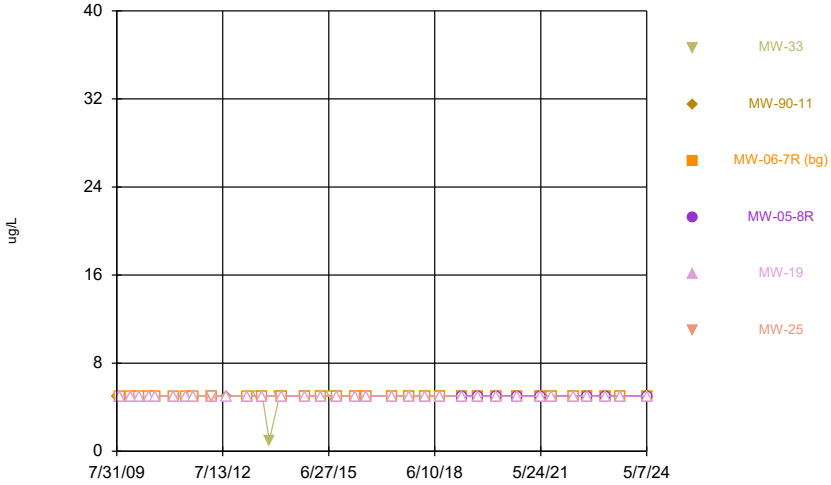
Hollow symbols indicate censored values.

Time Series



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Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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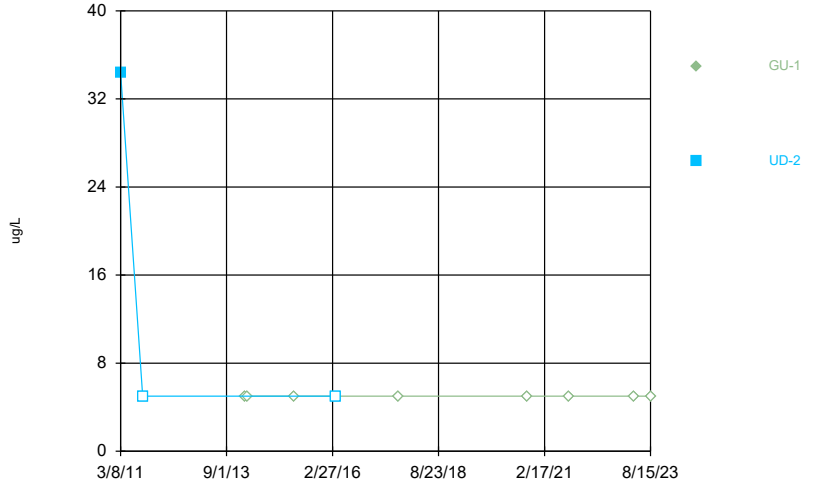
Hollow symbols indicate censored values.

Time Series



Constituent: 2-Butanone Analysis Run 6/24/2024 5:24 PM View: 2024SSN - Time Series Main + Source +
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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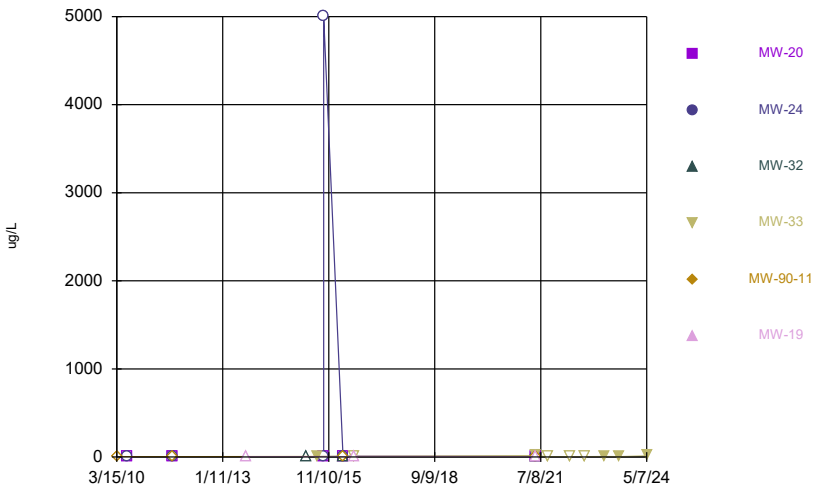
Hollow symbols indicate censored values.

Time Series



Constituent: 3/4-Methylphenol Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sou
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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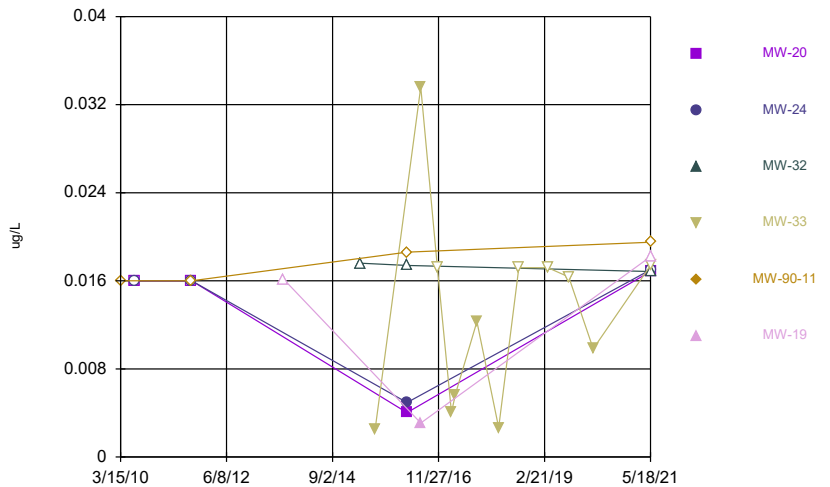
Hollow symbols indicate censored values.

Time Series



Constituent: 4,4`-DDD Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + A
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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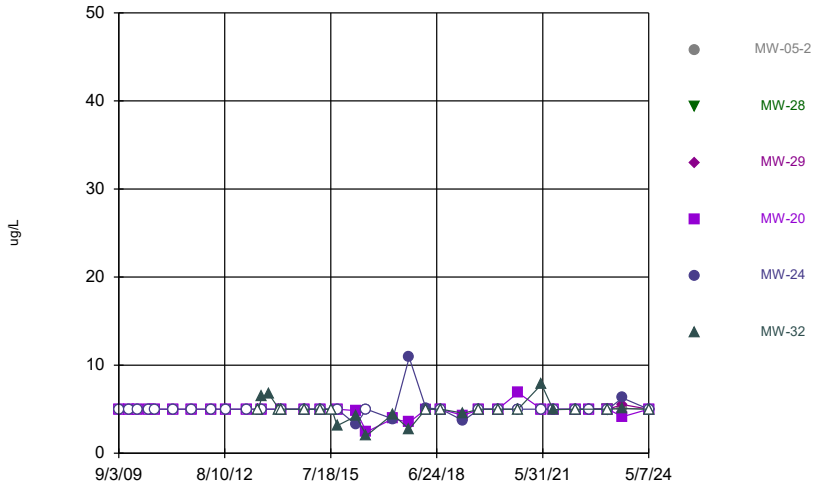
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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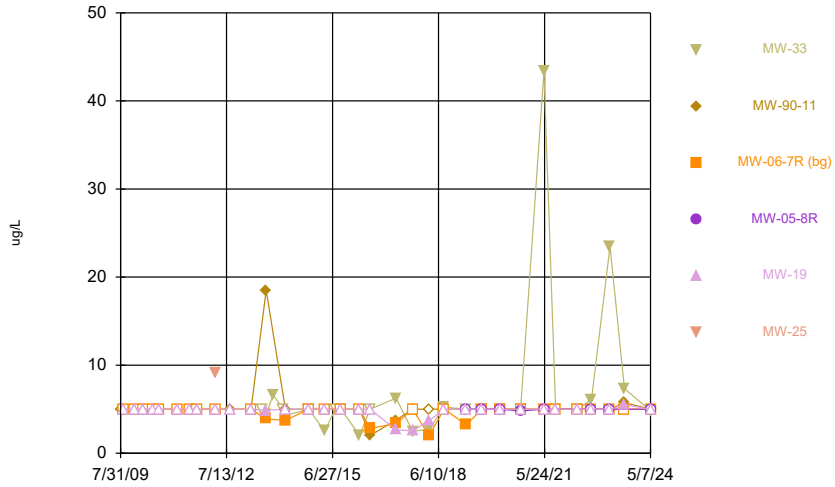
Hollow symbols indicate censored values.

Time Series



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Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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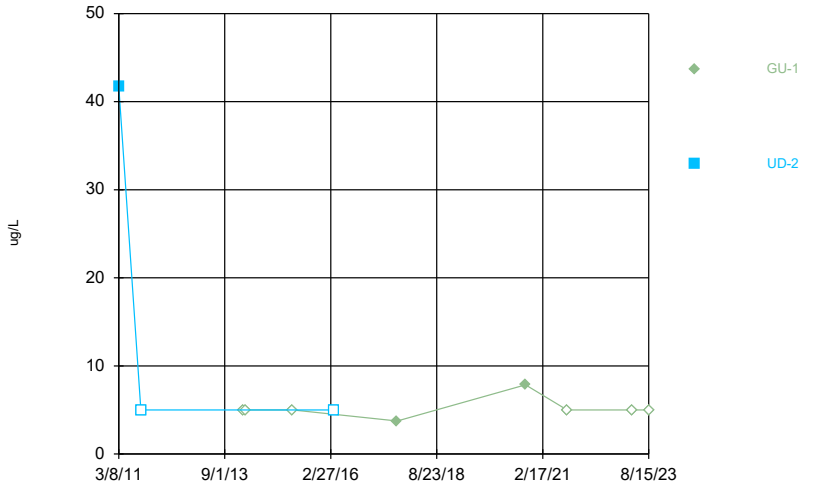
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
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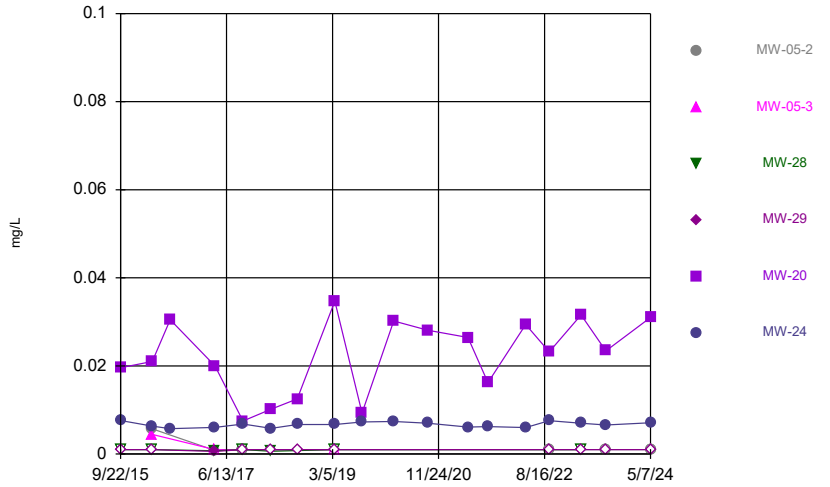
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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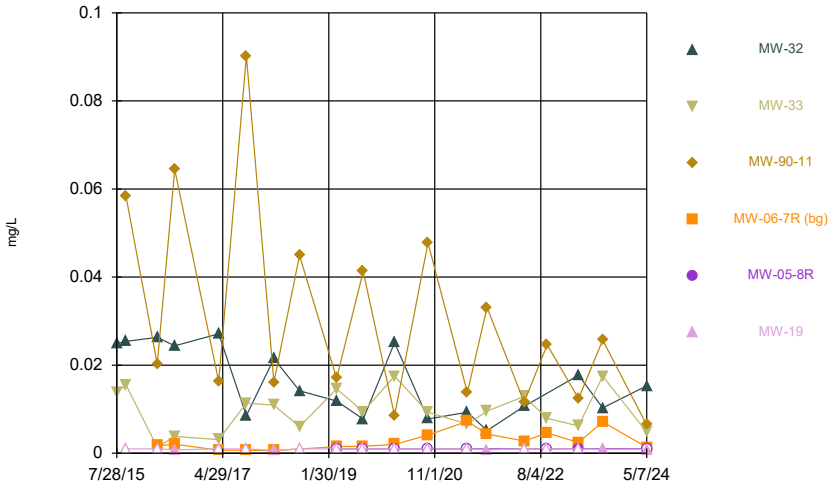
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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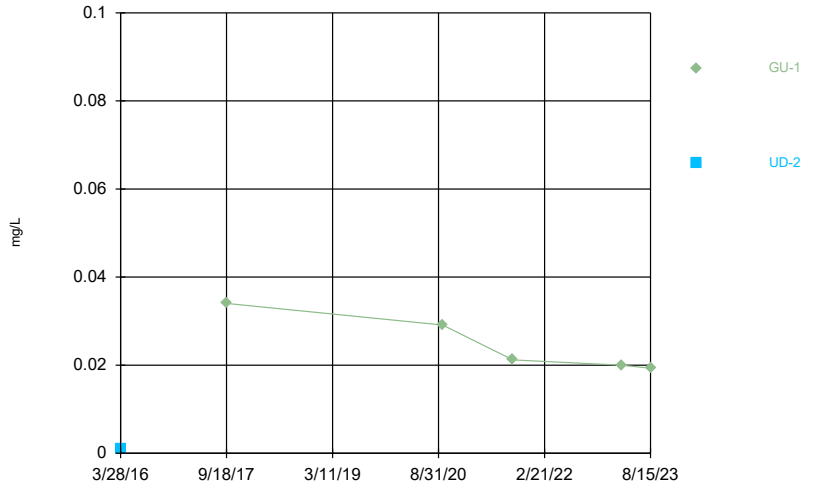
Time Series



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Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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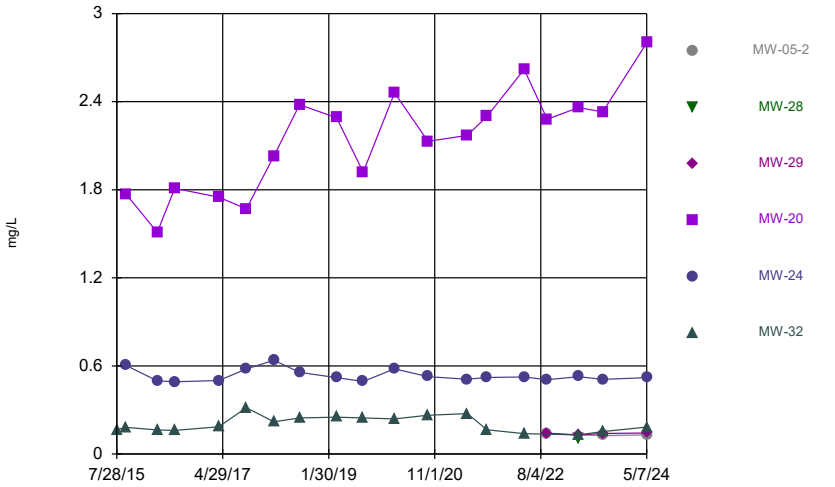
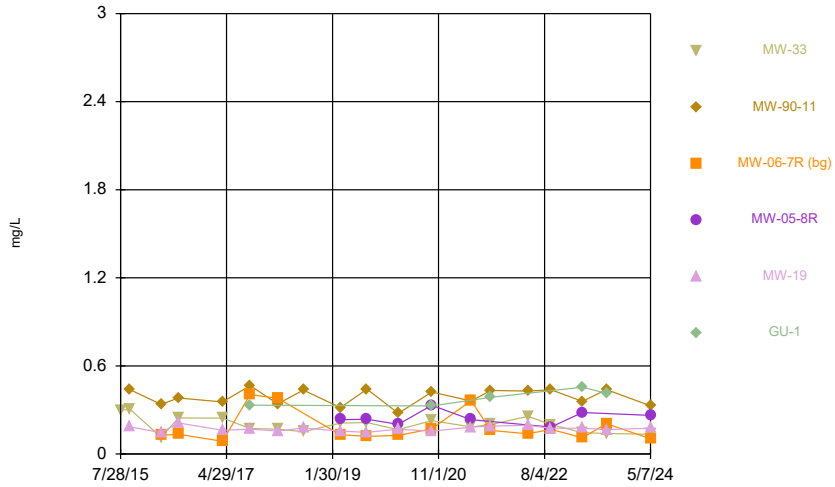
Time Series



Constituent: Barium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Barium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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Time Series

Constituent: Barium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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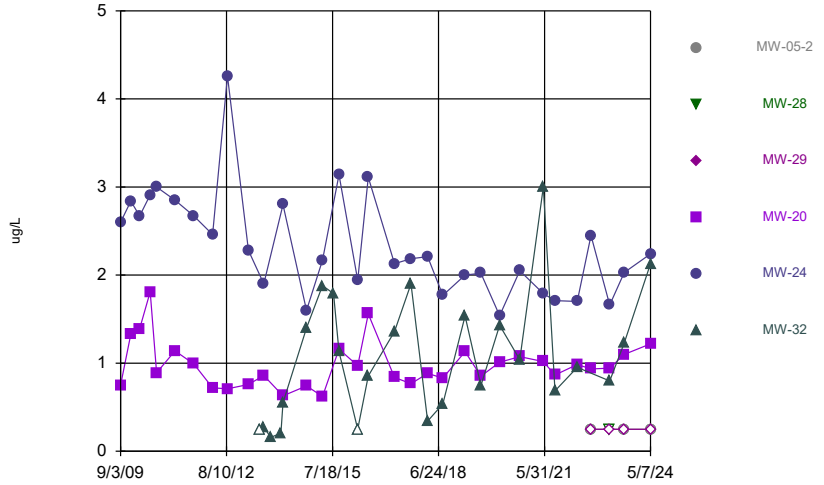
Hollow symbols indicate censored values.

Time Series



Constituent: Benzene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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Hollow symbols indicate censored values.

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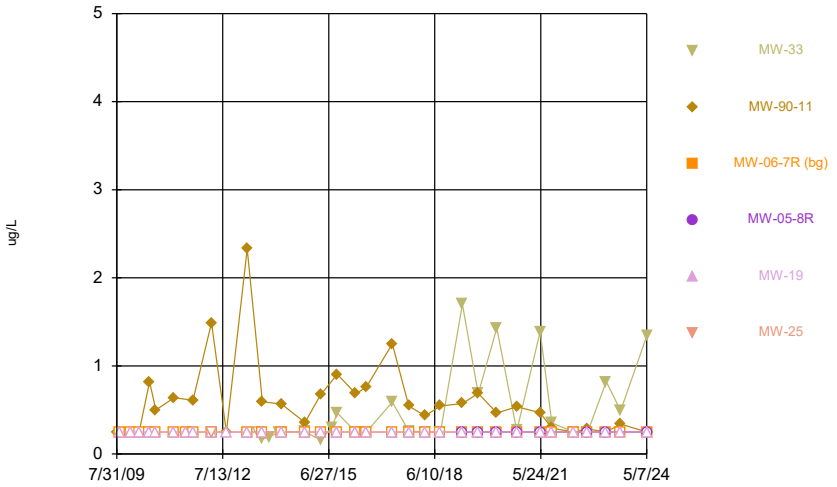

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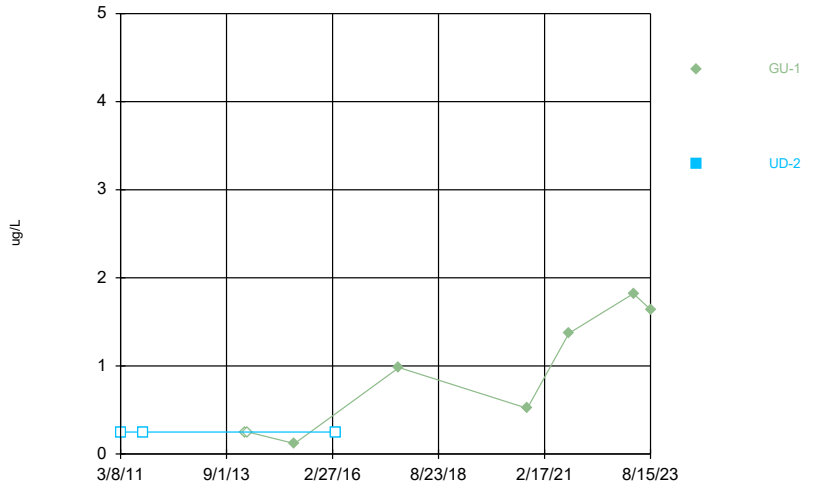
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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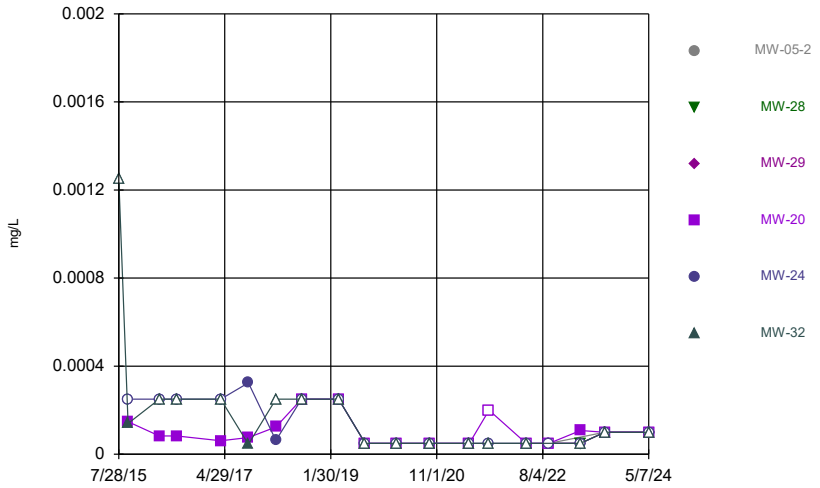
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

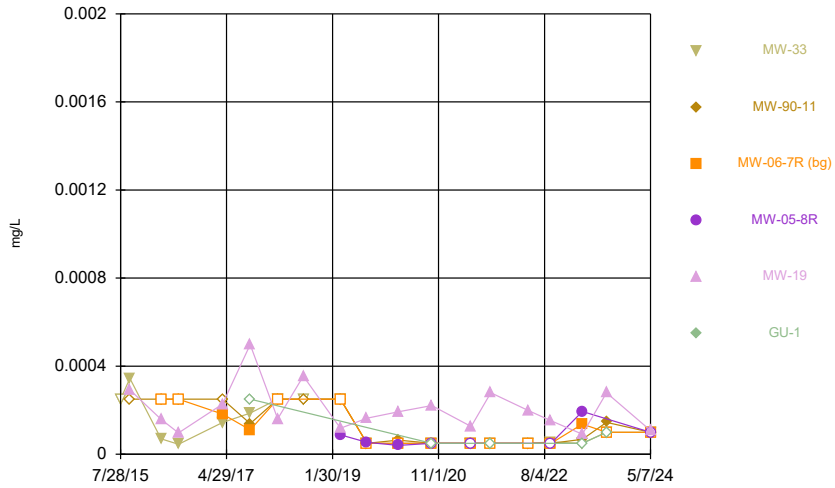
Time Series



Constituent: Cadmium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + A
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

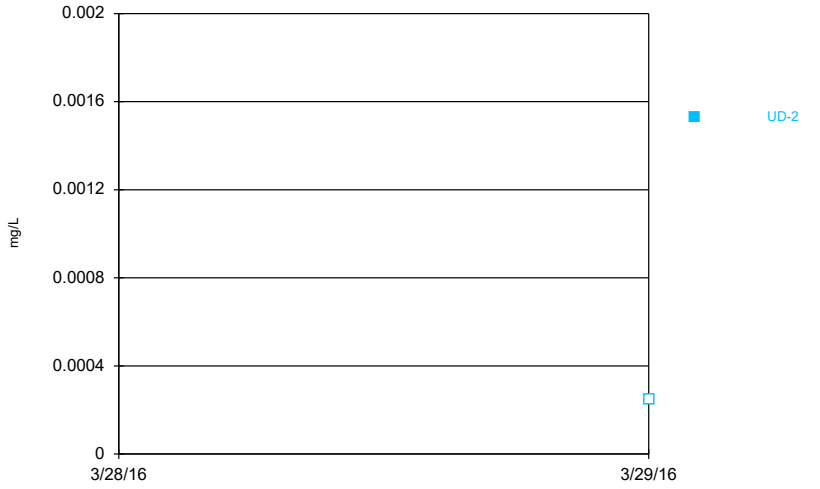
Time Series



Constituent: Cadmium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + A
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

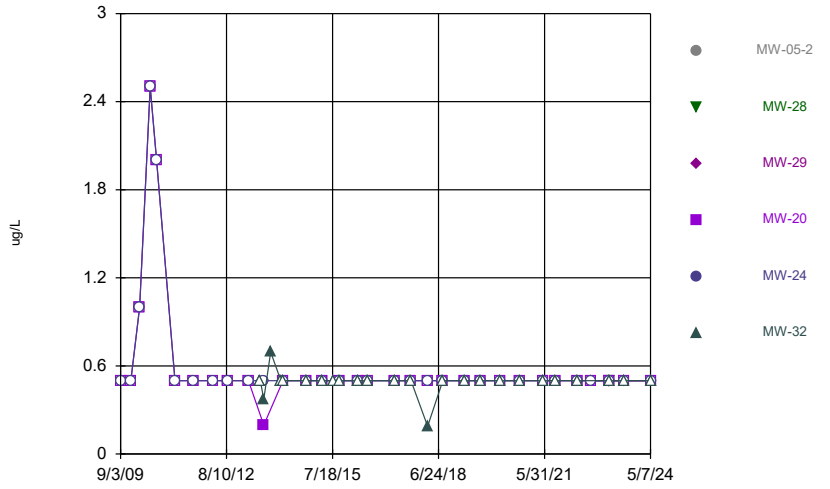
Time Series



Constituent: Cadmium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + A
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

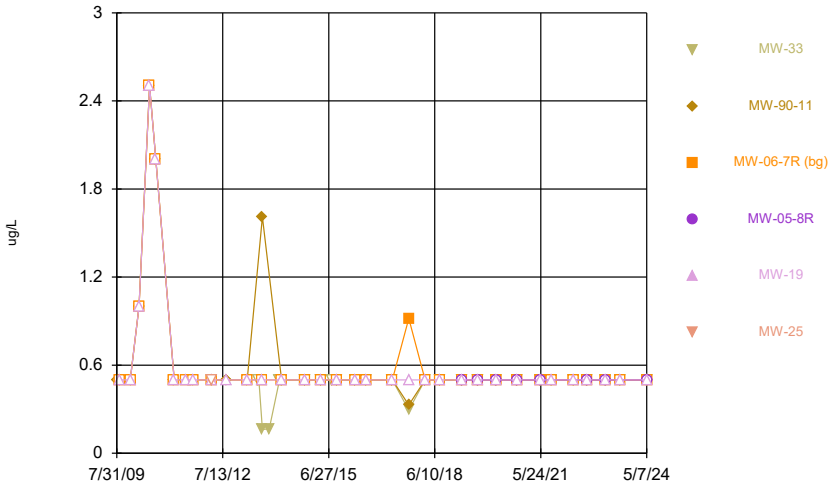
Time Series



Constituent: Carbon disulfide Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sour
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Carbon disulfide Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sour
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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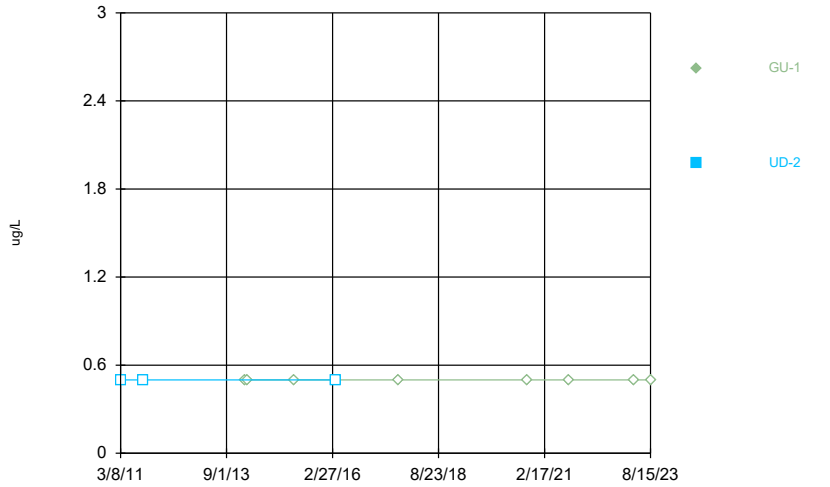
Hollow symbols indicate censored values.

Time Series



Constituent: Carbon disulfide Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sour
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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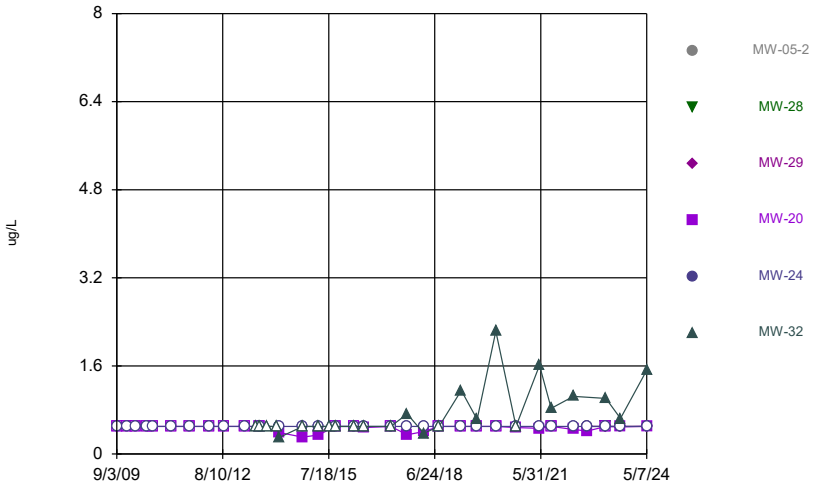
Hollow symbols indicate censored values.

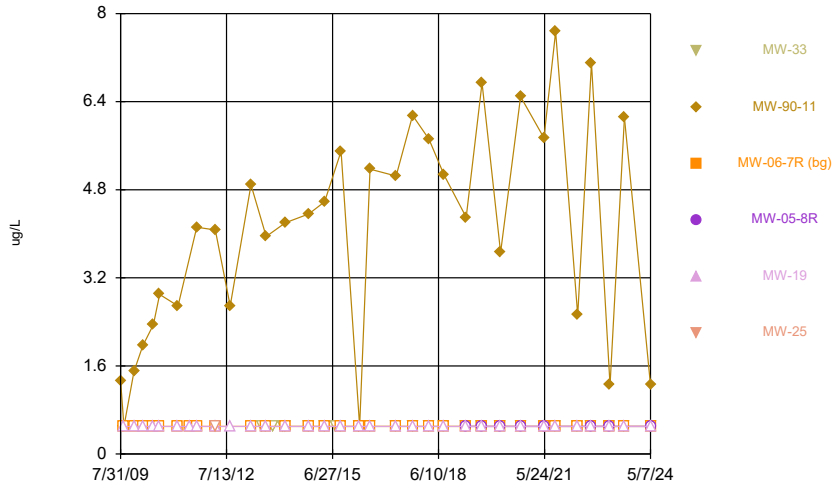
Time Series



Constituent: Chlorobenzene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sourc
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chlorobenzene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sourc
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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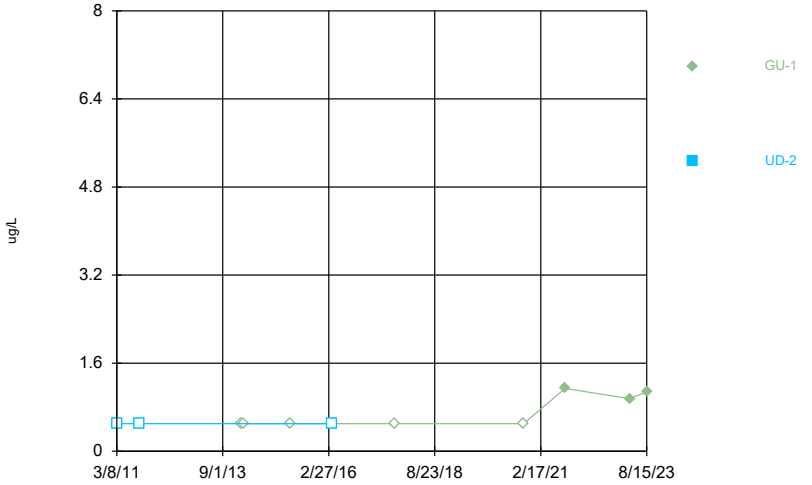
Hollow symbols indicate censored values.

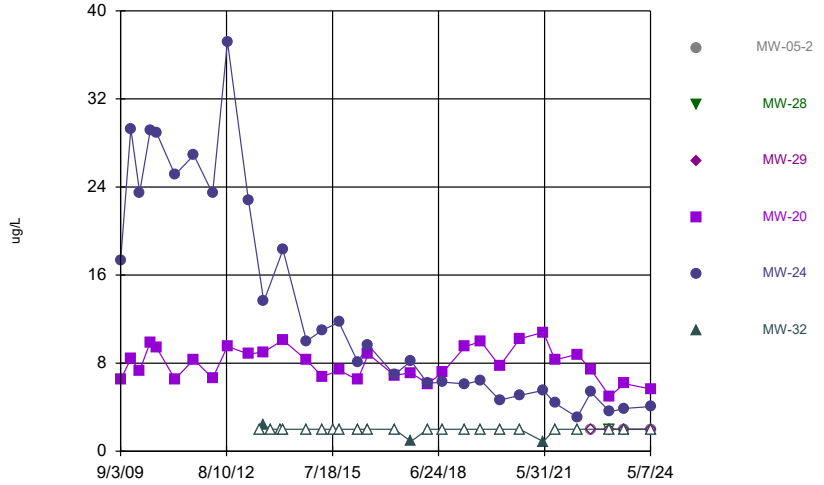
Time Series



Constituent: Chlorobenzene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sourc
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chloroethane Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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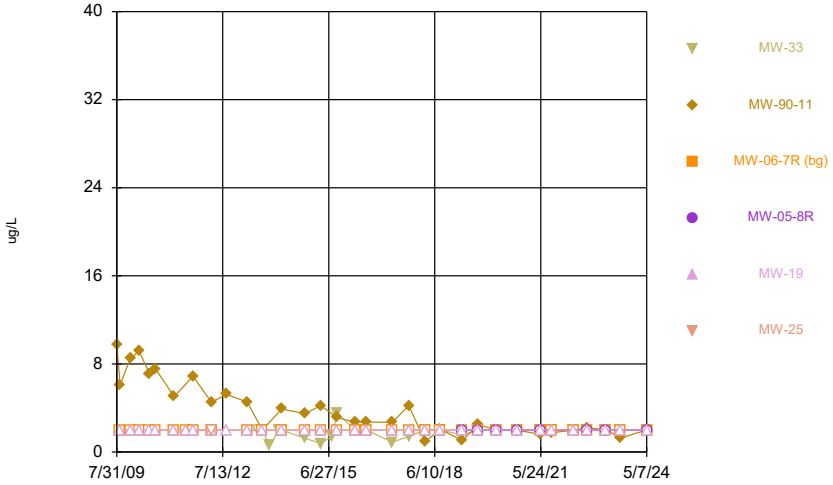
Hollow symbols indicate censored values.

Time Series



Constituent: Chloroethane Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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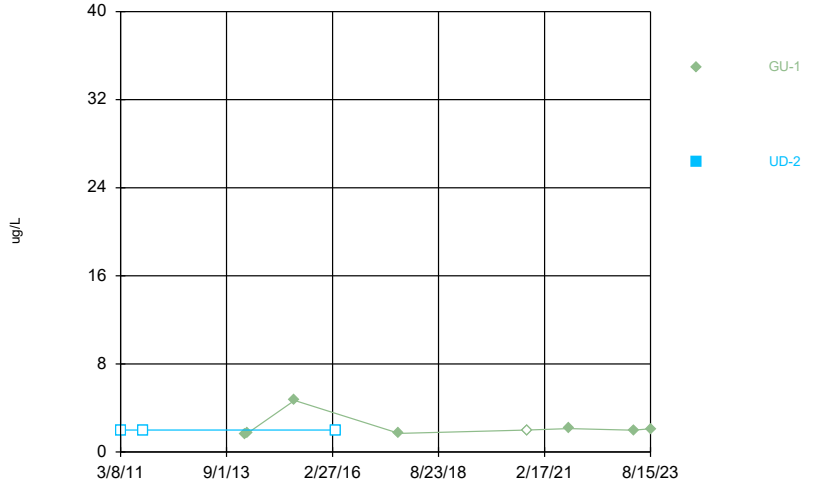
Hollow symbols indicate censored values.

Time Series



Constituent: Chloroethane Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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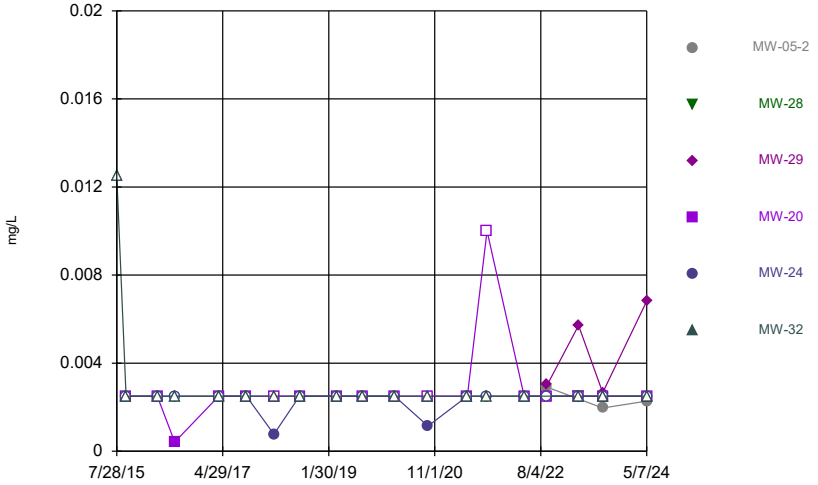
Hollow symbols indicate censored values.

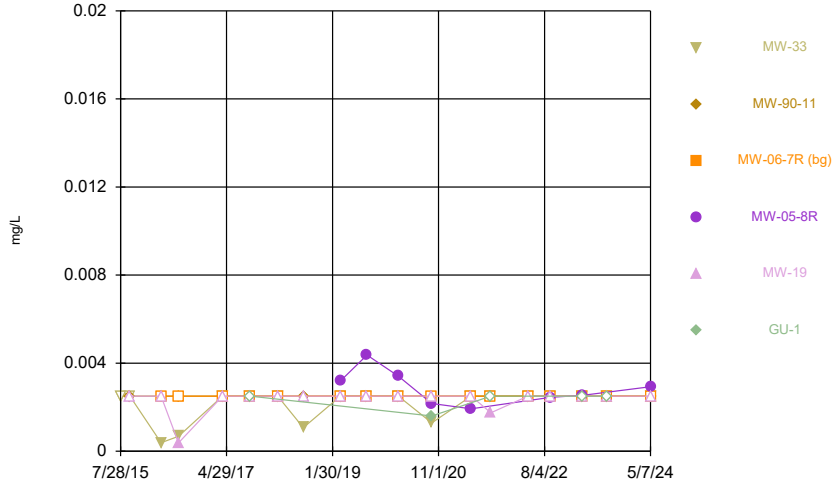
Time Series



Constituent: Chromium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source +
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

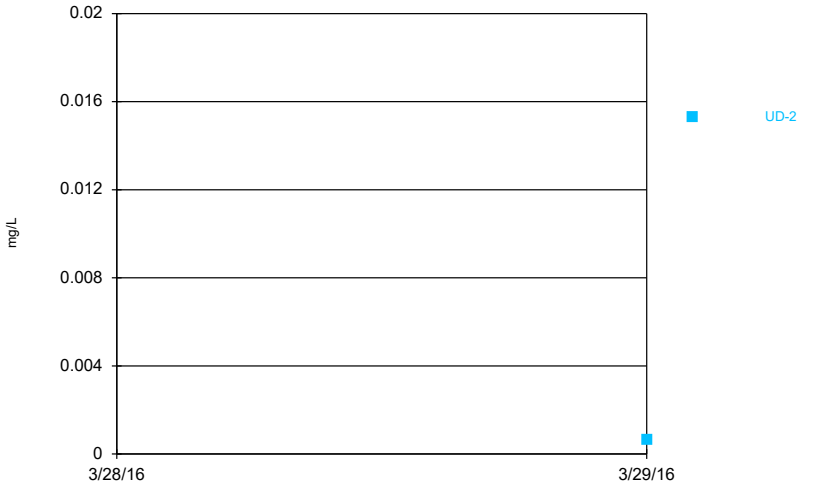
Time Series



Constituent: Chromium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source +
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Chromium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source +
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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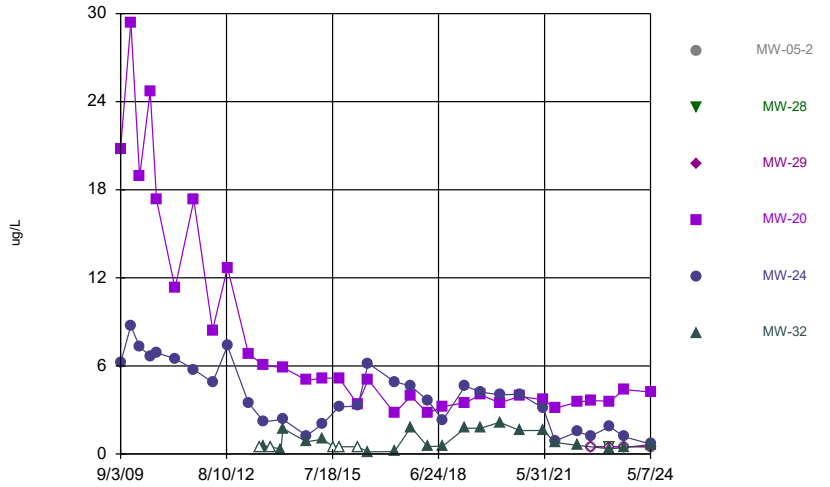
Hollow symbols indicate censored values.

Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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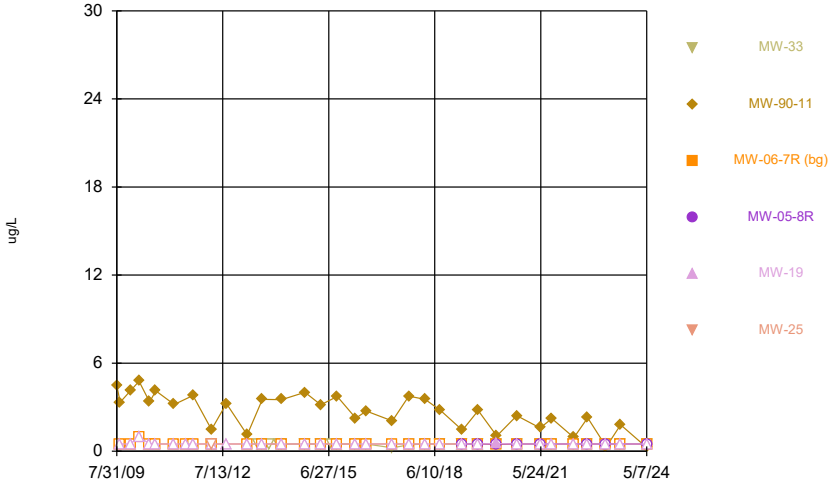
Hollow symbols indicate censored values.

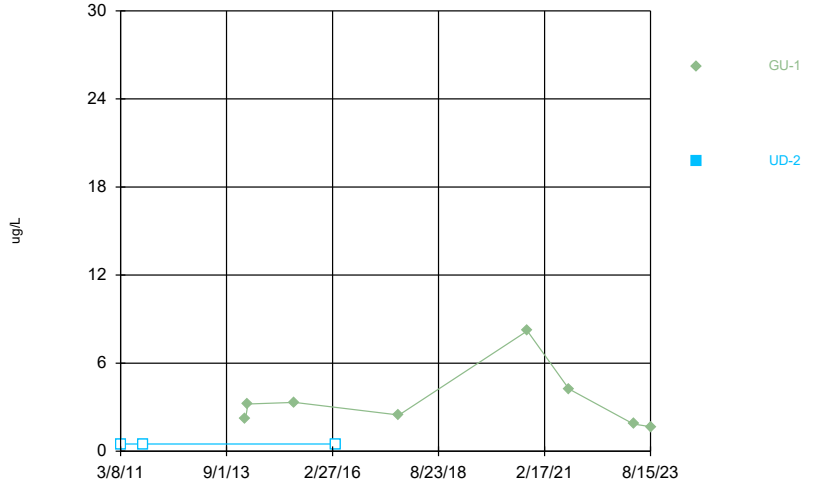
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

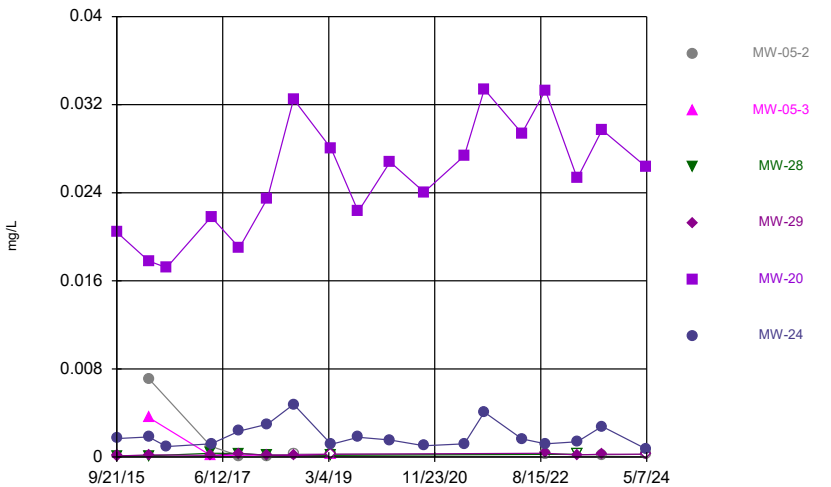
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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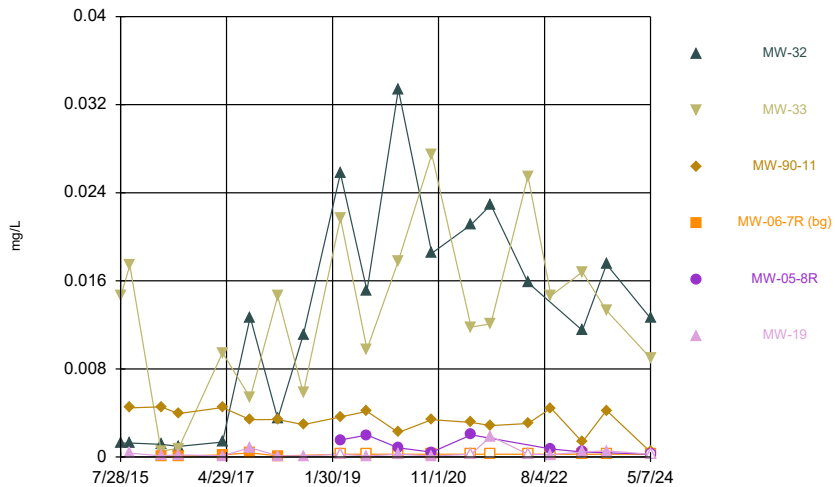
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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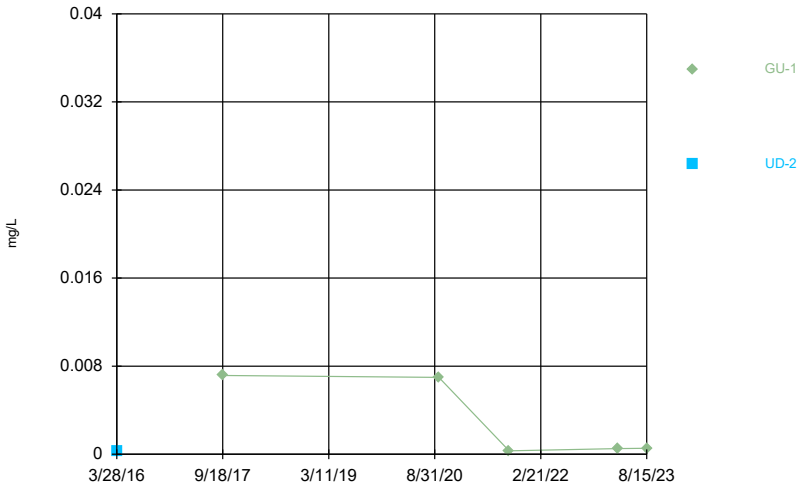
Time Series



Constituent: Cobalt Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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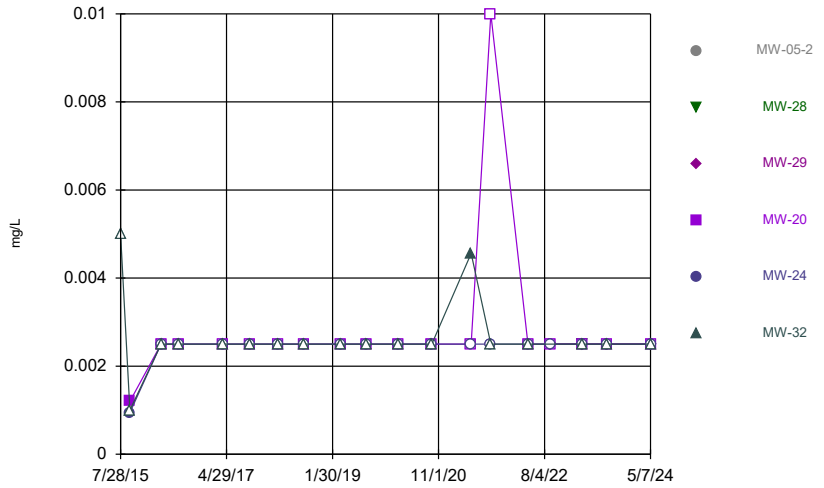
Hollow symbols indicate censored values.

Time Series



Constituent: Copper Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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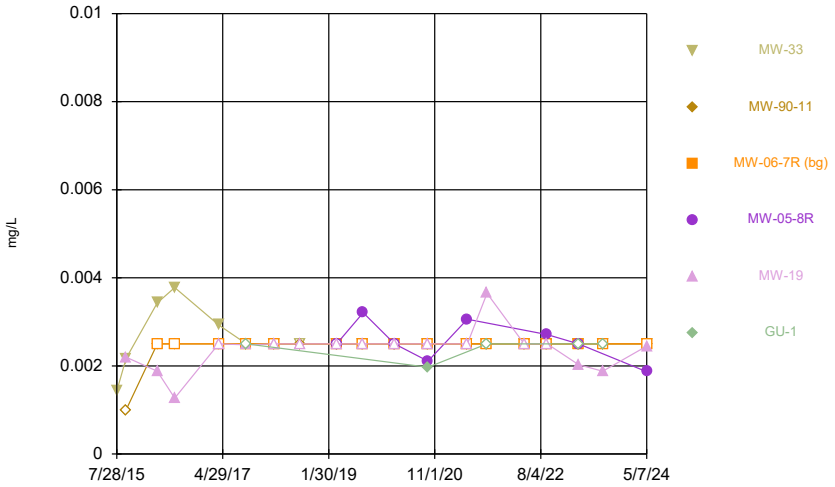
Hollow symbols indicate censored values.

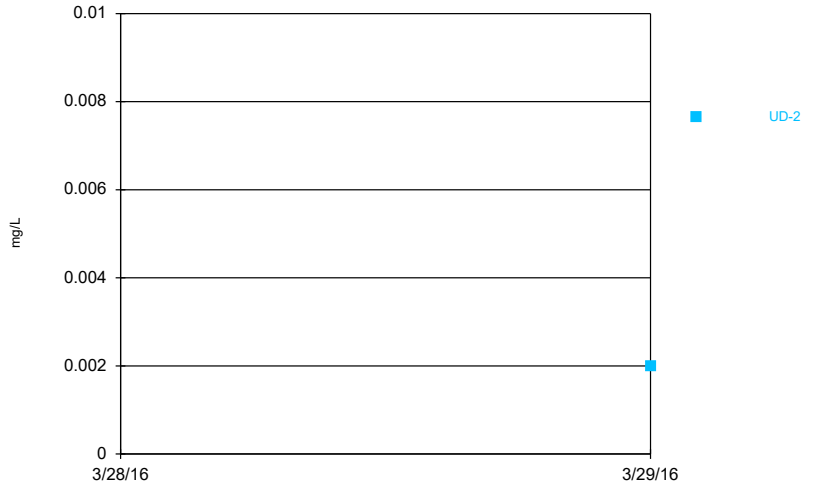
Time Series



Constituent: Copper Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Copper Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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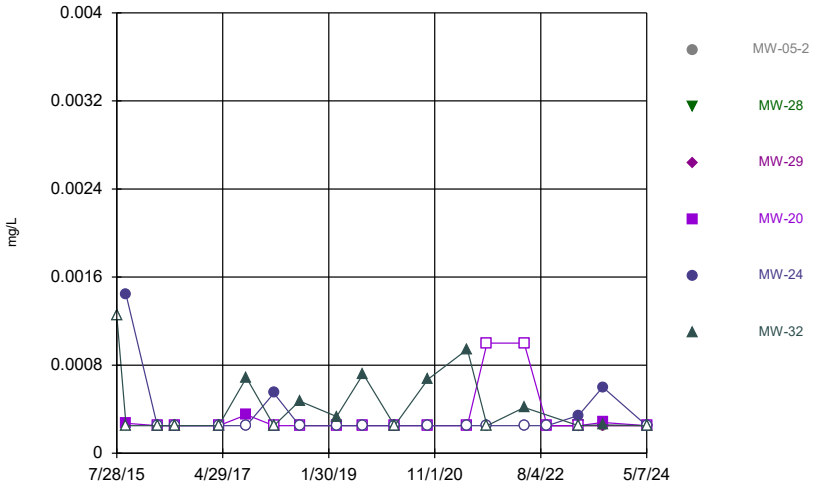
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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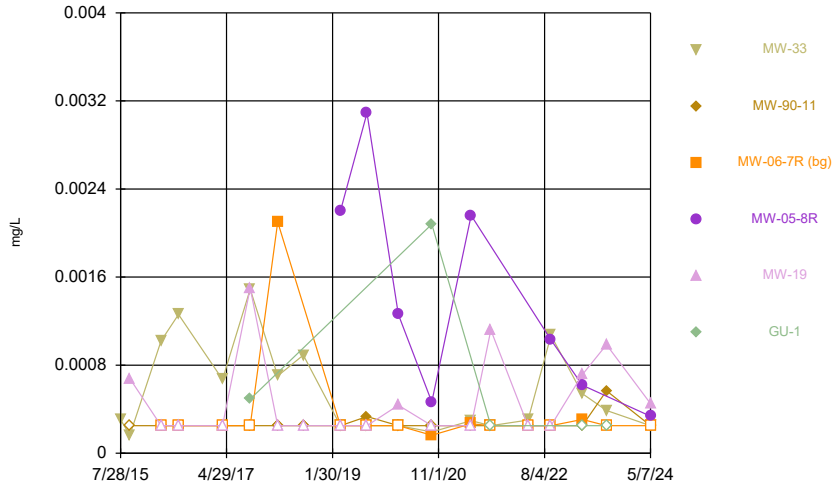
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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Time Series

Constituent: Lead Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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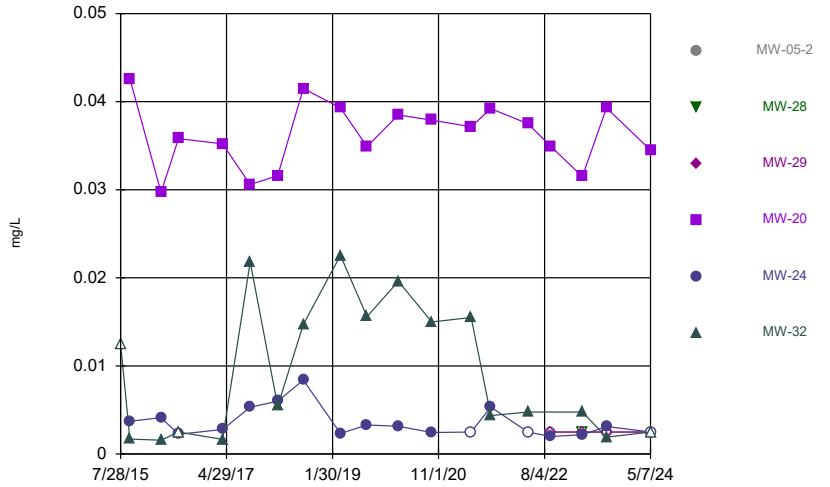
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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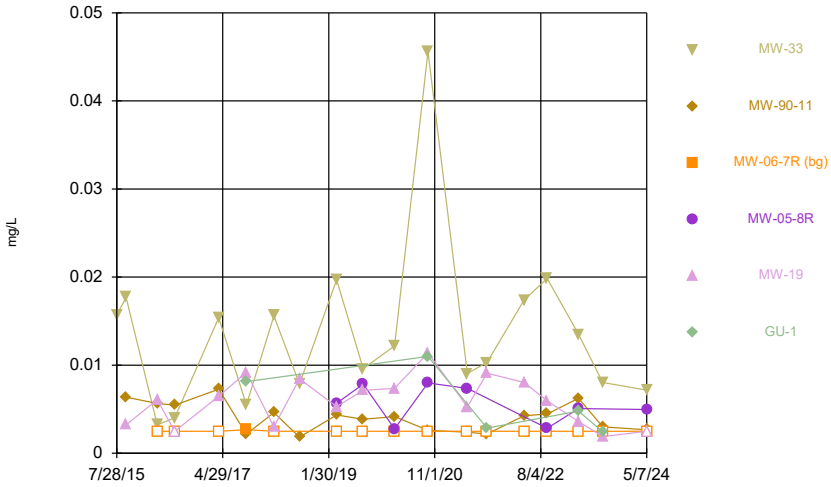
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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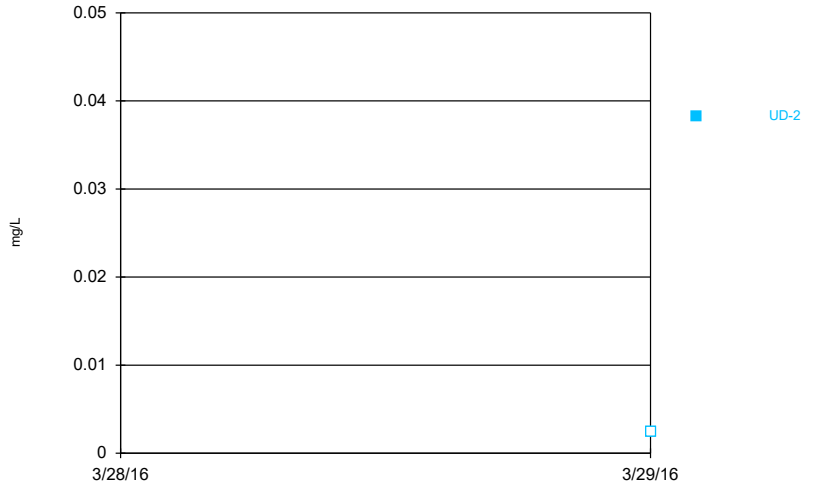
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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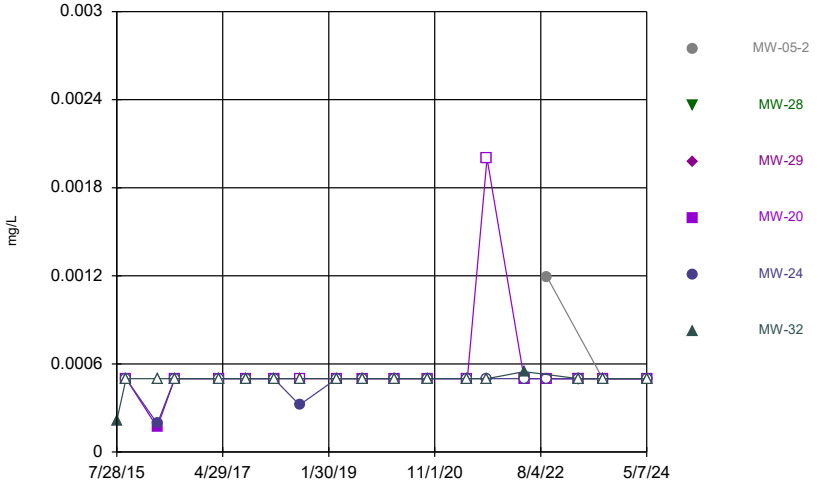
Hollow symbols indicate censored values.

Time Series



Constituent: Silver Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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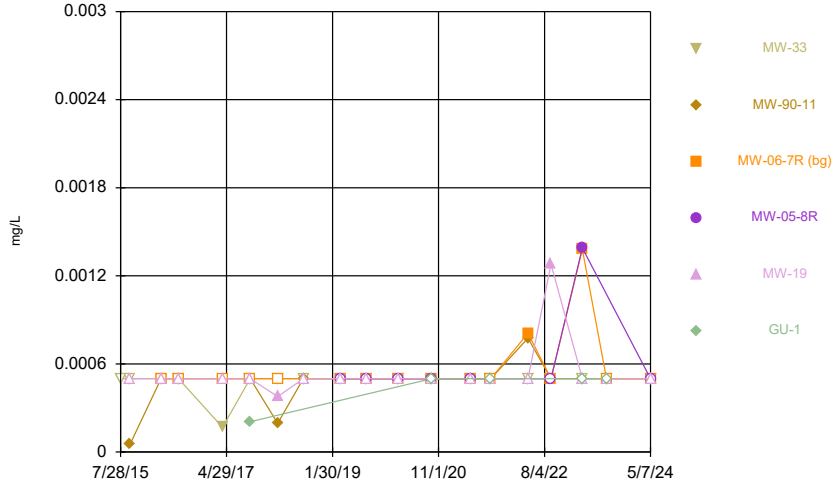
Hollow symbols indicate censored values.

Time Series



Constituent: Silver Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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Hollow symbols indicate censored values.

Time Series

Constituent: Silver Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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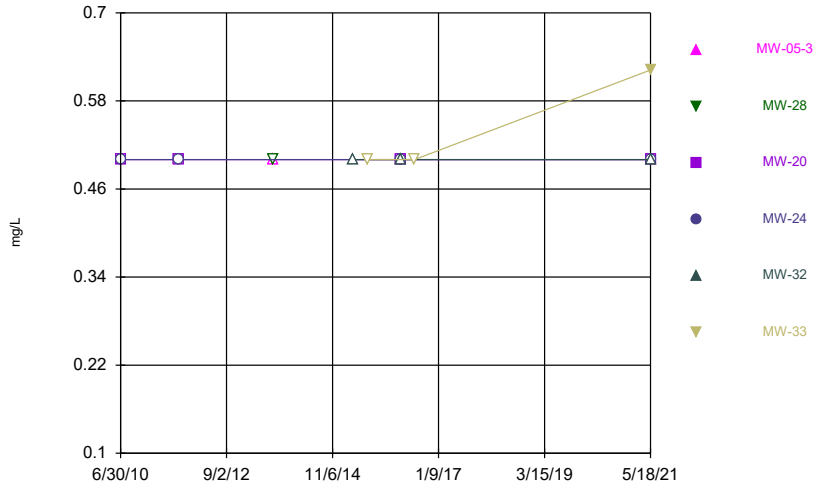
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfide Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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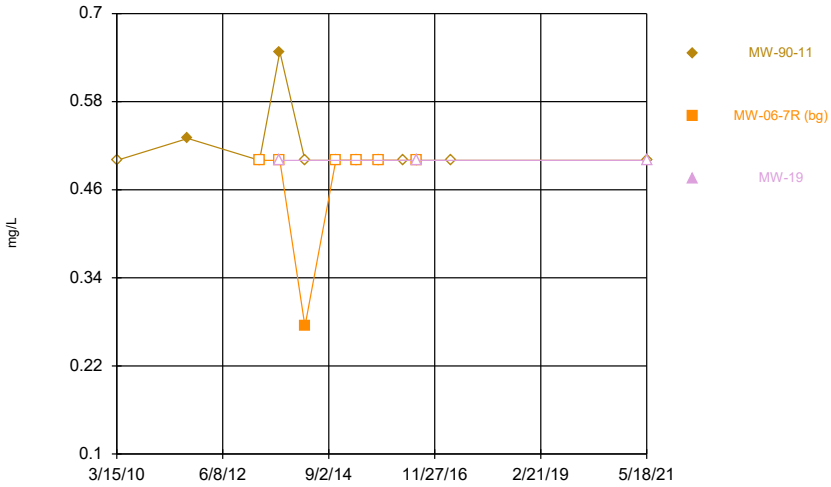
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfide Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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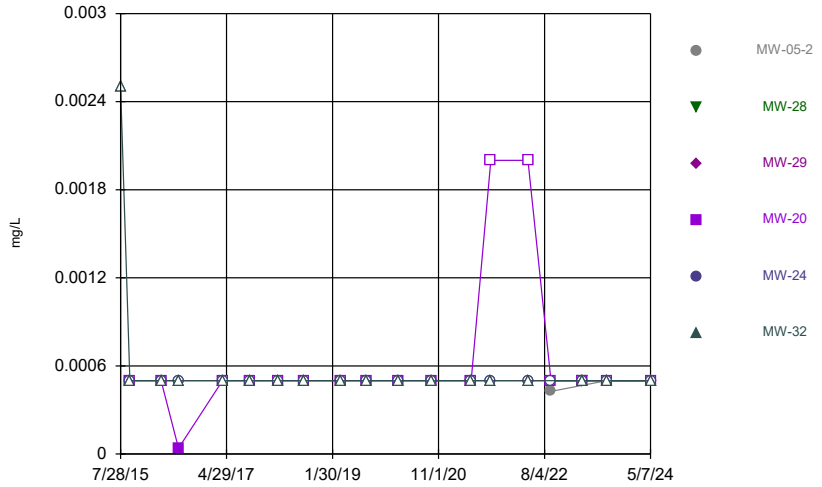
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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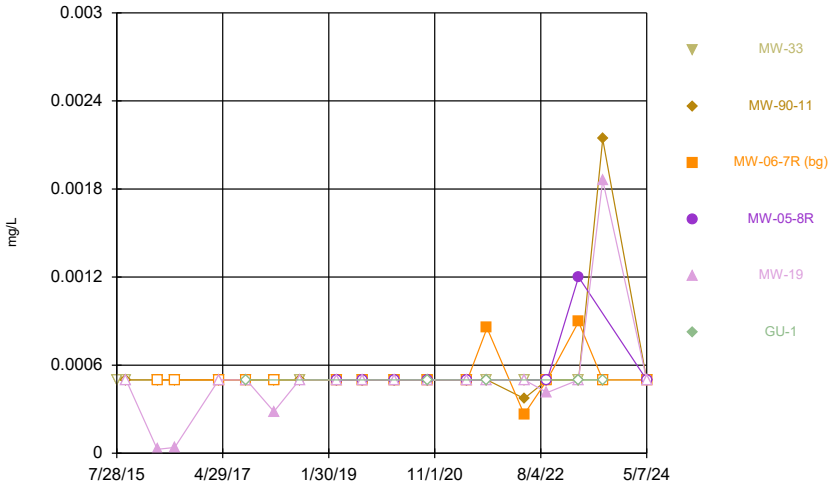
Hollow symbols indicate censored values.

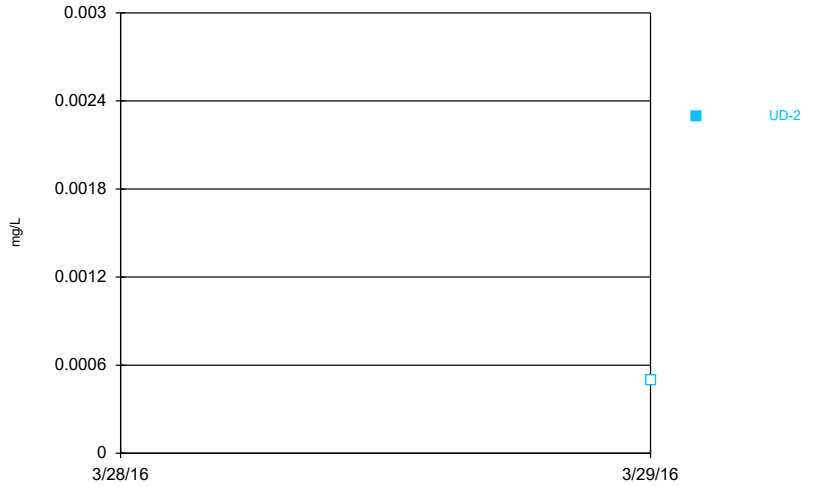
Time Series



Constituent: Thallium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

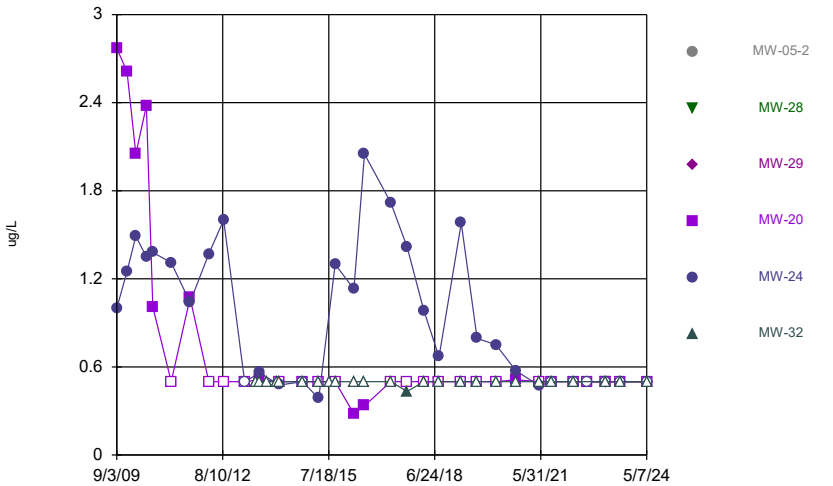
Time Series



Constituent: Thallium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

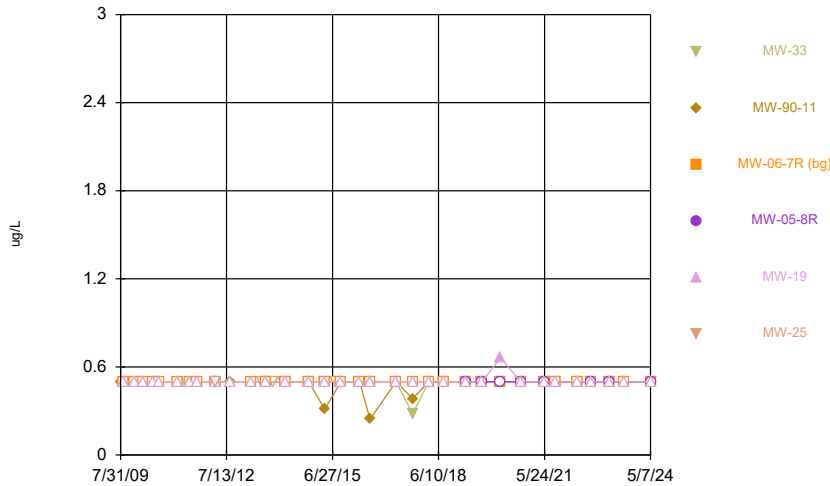
Time Series



Constituent: Trichloroethene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sour
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

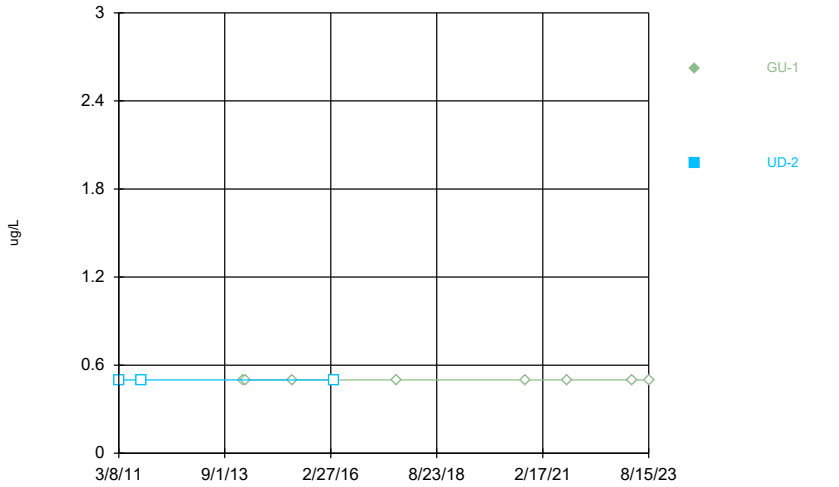
Time Series



Constituent: Trichloroethene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sour
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

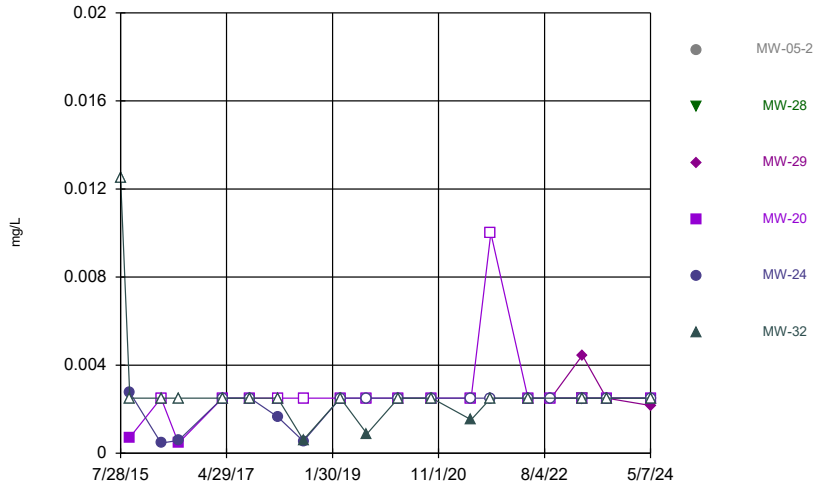
Time Series



Constituent: Trichloroethene Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Sour
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

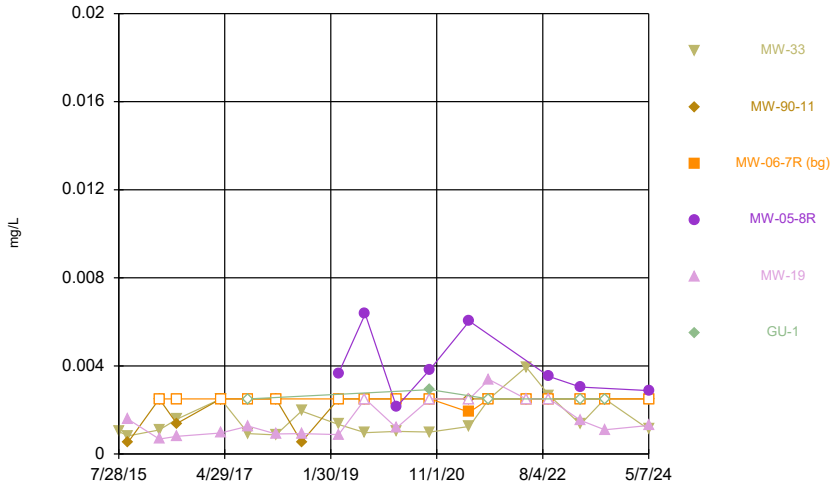
Time Series



Constituent: Vanadium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + A
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

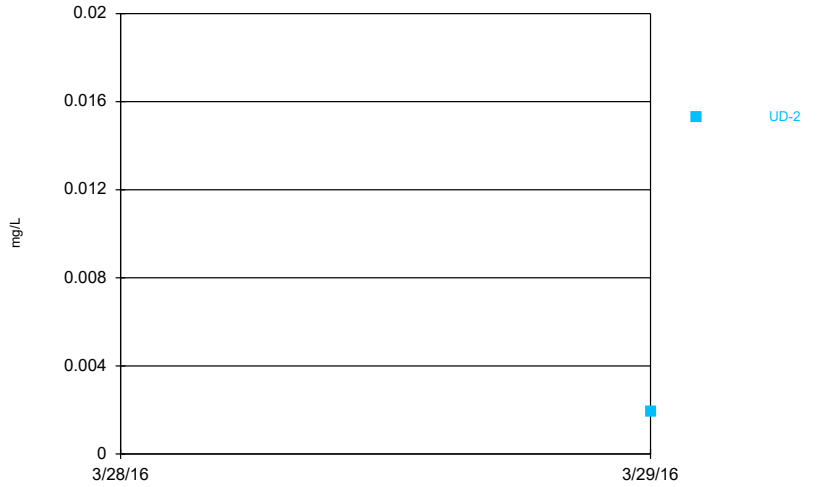
Time Series



Constituent: Vanadium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + A
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Vanadium Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source + A
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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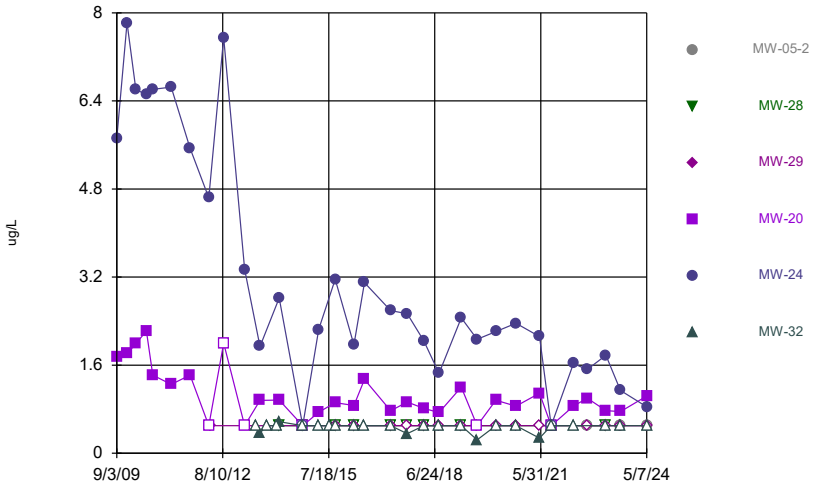
Hollow symbols indicate censored values.

Time Series



Constituent: Vinyl chloride Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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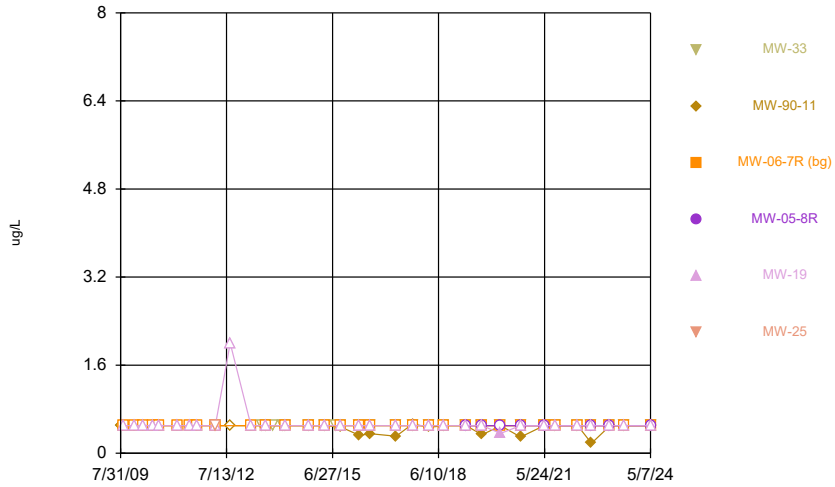
Hollow symbols indicate censored values.

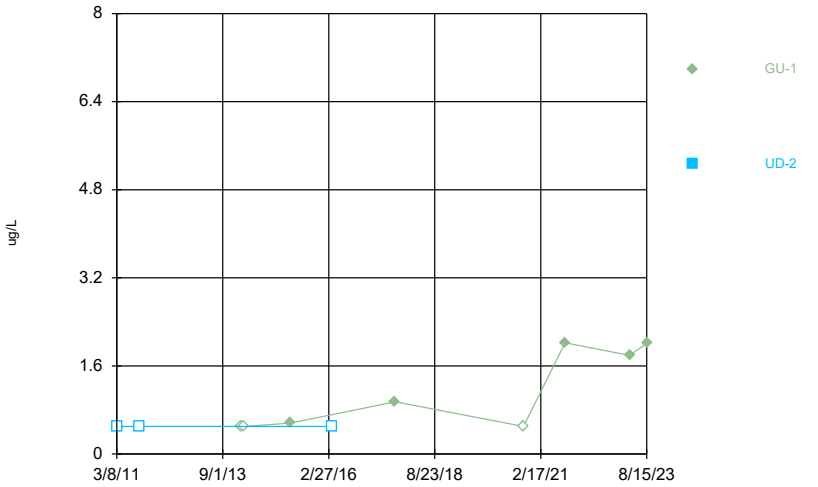
Time Series



Constituent: Vinyl chloride Analysis Run 6/24/2024 5:25 PM View: 2024SSN - Time Series Main + Source
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

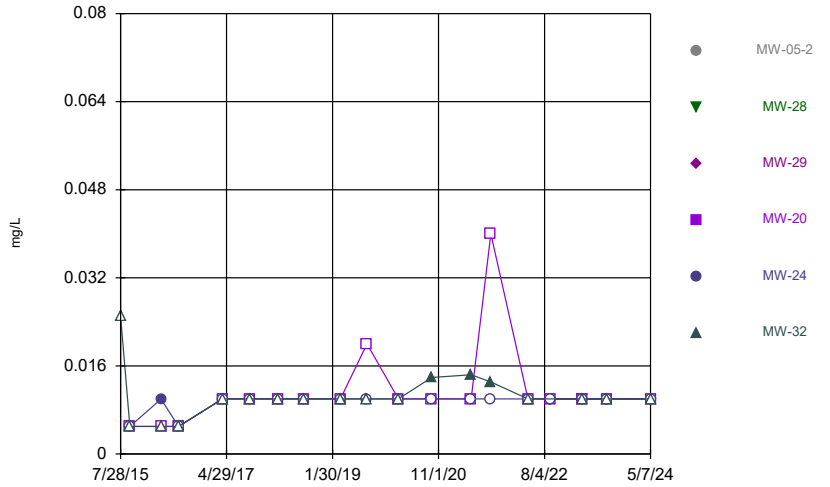
Time Series



Constituent: Vinyl chloride Analysis Run 6/24/2024 5:26 PM View: 2024SSN - Time Series Main + Source
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

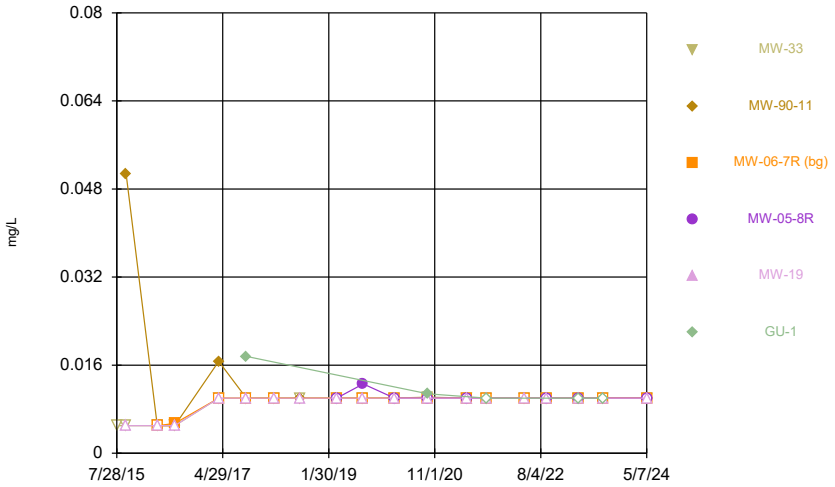
Time Series



Constituent: Zinc Analysis Run 6/24/2024 5:26 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Hollow symbols indicate censored values.

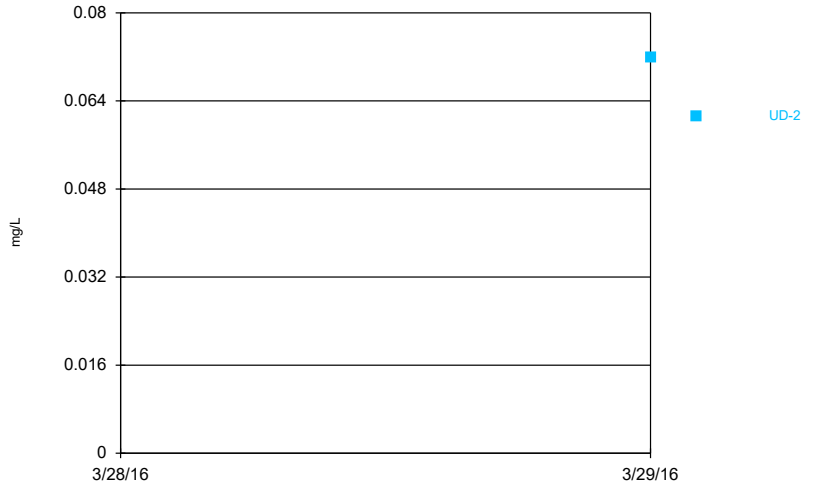
Time Series



Constituent: Zinc Analysis Run 6/24/2024 5:26 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Zinc Analysis Run 6/24/2024 5:26 PM View: 2024SSN - Time Series Main + Source + AZ
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Time Series Plot

Bedrock

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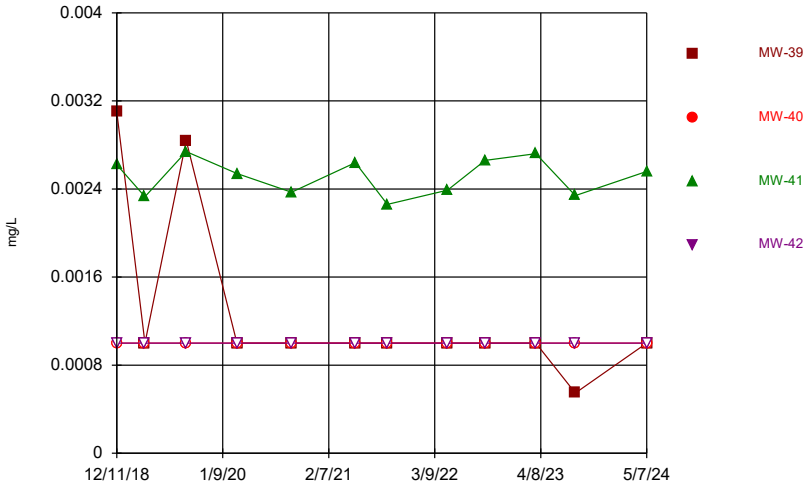
Hollow symbols indicate censored values.

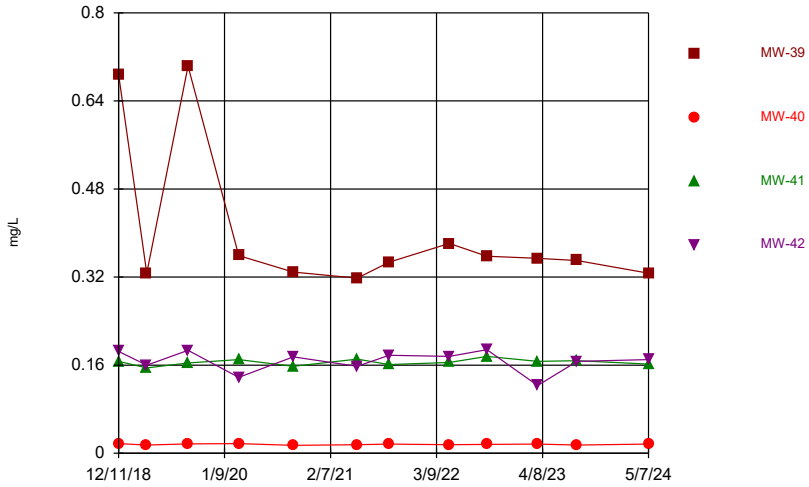
Time Series



Constituent: Arsenic Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Barium Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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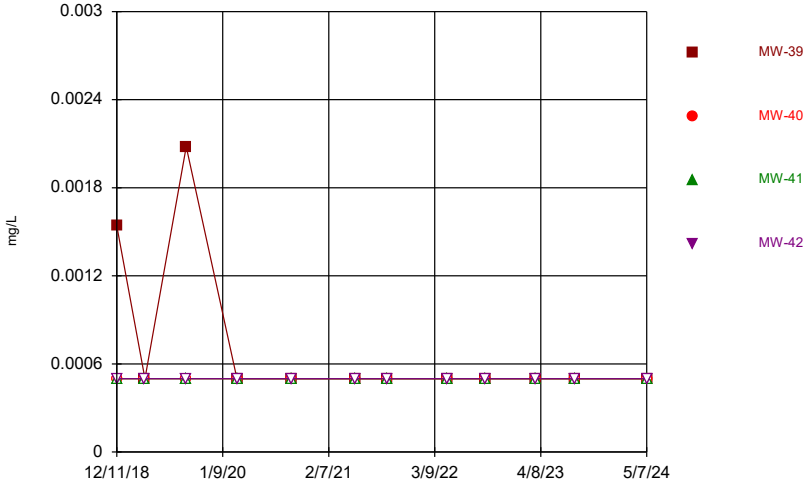
Hollow symbols indicate censored values.

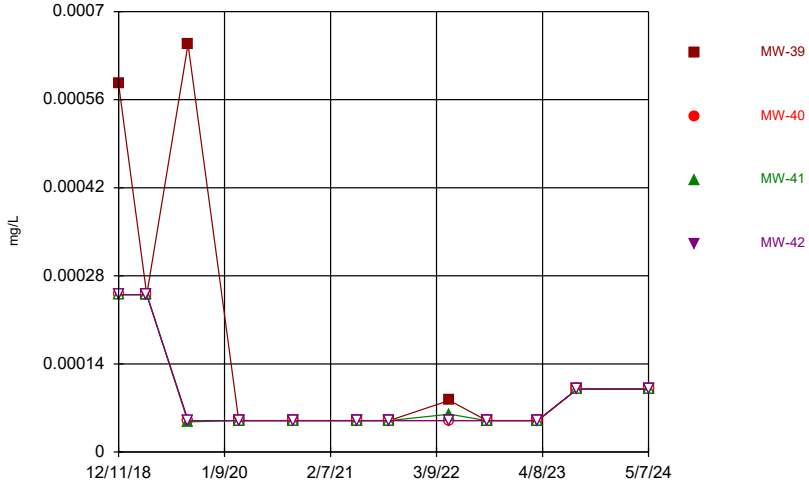
Time Series



Constituent: Beryllium Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

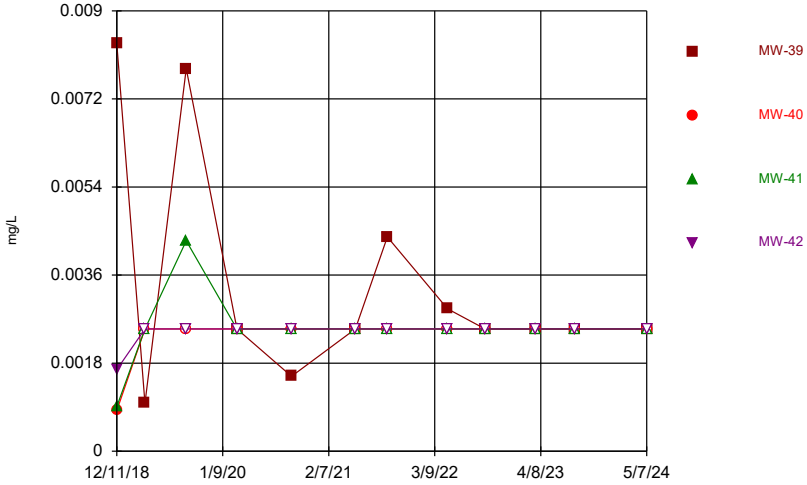
Time Series



Constituent: Cadmium Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

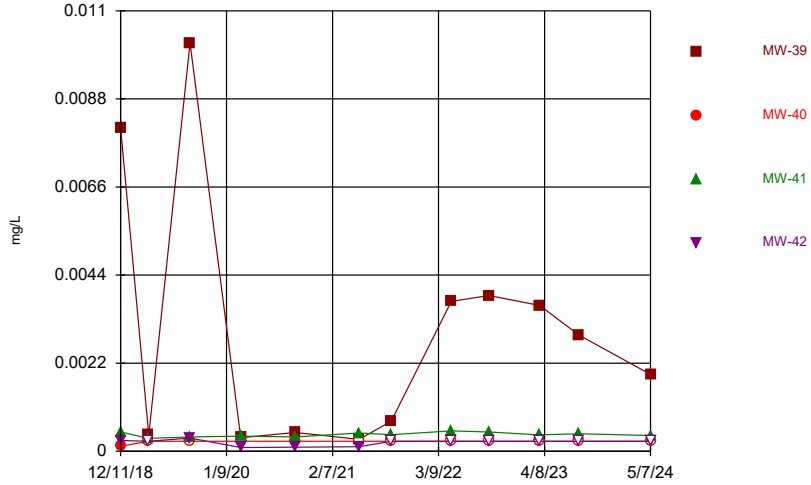
Time Series



Constituent: Chromium Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

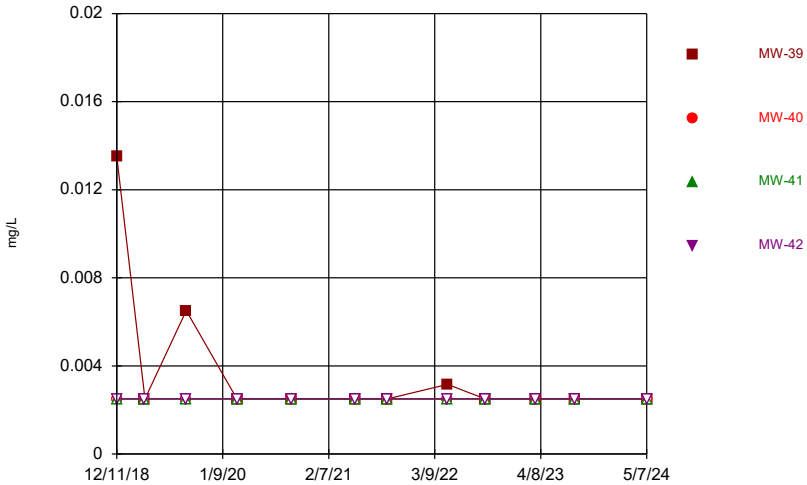
Time Series



Constituent: Cobalt Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

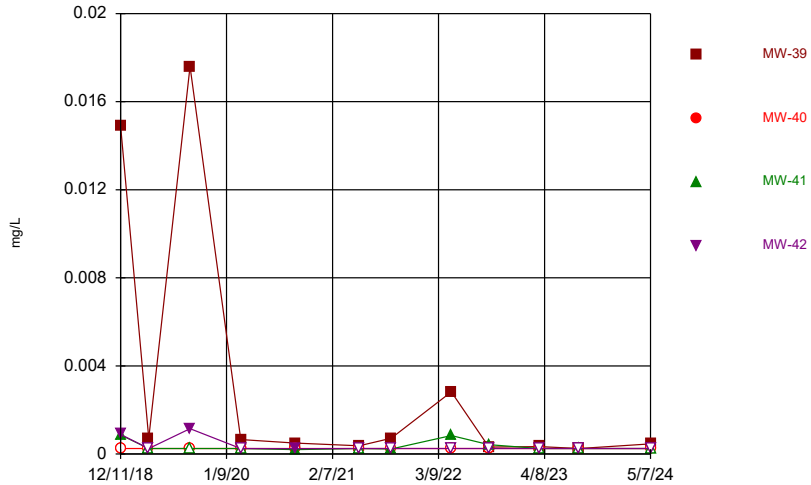
Time Series



Constituent: Copper Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

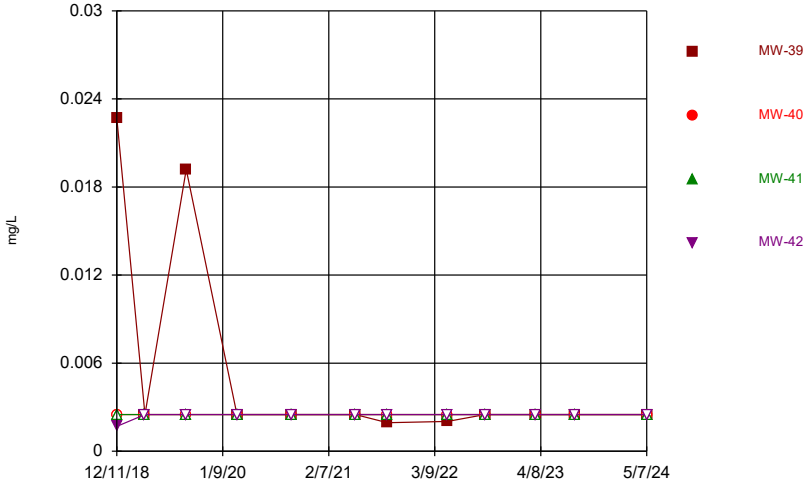
Time Series



Constituent: Lead Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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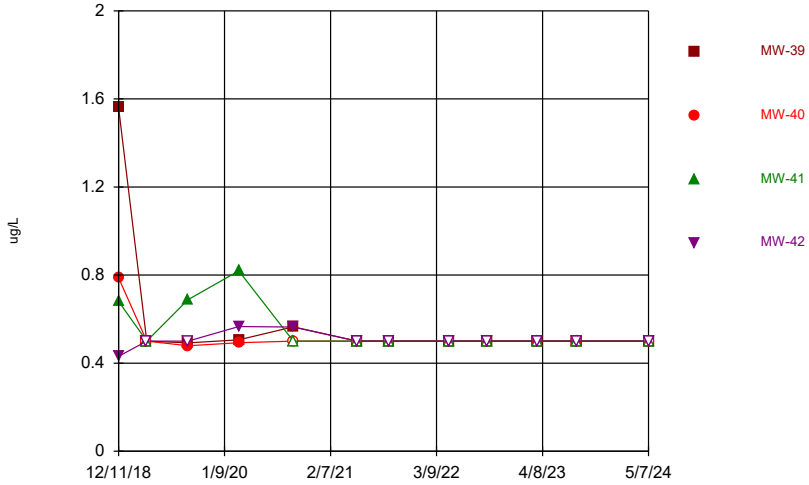
Hollow symbols indicate censored values.

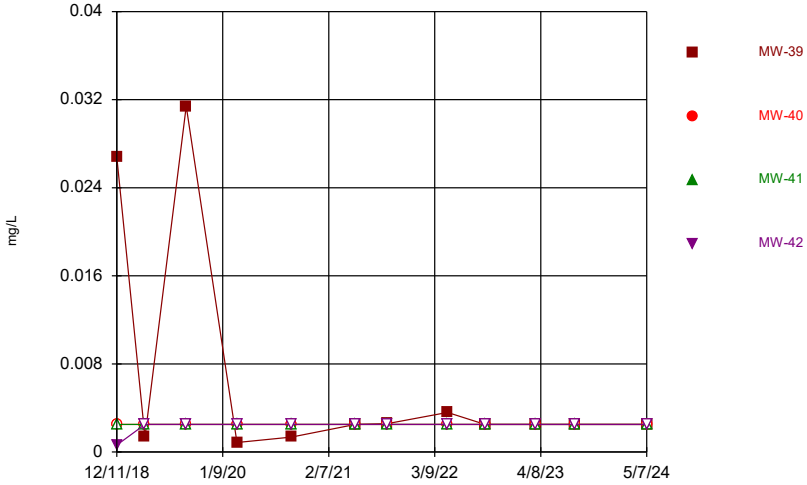
Time Series



Constituent: Toluene Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

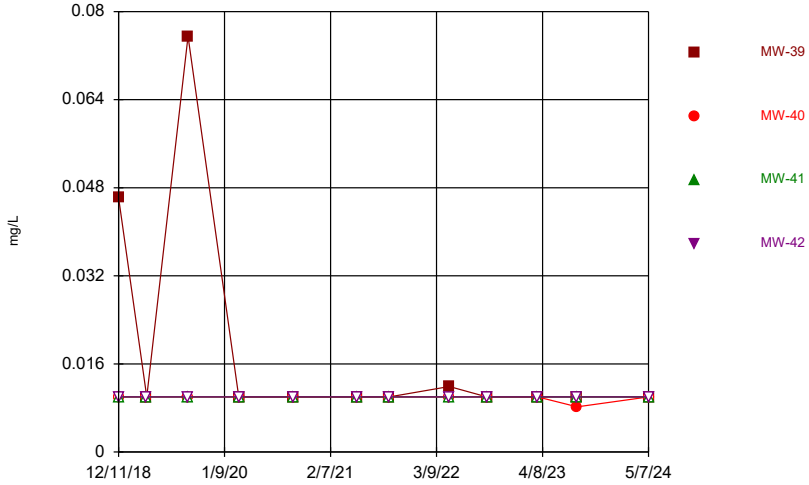
Time Series



Constituent: Vanadium Analysis Run 6/24/2024 5:22 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 6/24/2024 5:23 PM View: 2024SSN - Time Series Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Outliers

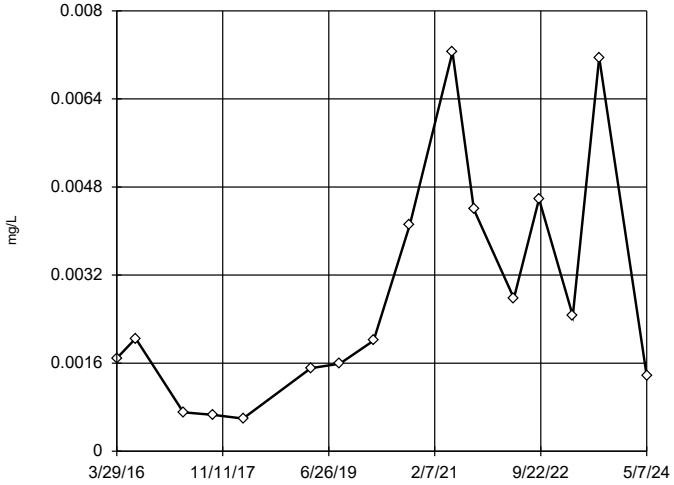
Outlier Analysis

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 6/25/2024, 11:20 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Arsenic (mg/L)	MW-06-7R (bg)	No	n/a	n/a	EPA/OH	0.05	16	0.002807	0.002124	ShapiroWilk
Barium (mg/L)	MW-06-7R (bg)	No	n/a	n/a	EPA/OH	0.05	16	0.1834	0.1032	ShapiroWilk
Cadmium (mg/L)	**MW-06-7R (bg)**	**Yes**	**0.00025,0.00025,0.00025,0.00025**	**3/29/2016,7/13/2016,3/5/2018,3/19/2019**	**OH**	**NaN**	**16**	**0.0001238**	**0.00008438**	**n/a**
Cobalt (mg/L)	**MW-06-7R (bg)**	**Yes**	**0.000064,0.000078,0.000377,0.000098**	**3/29/2016,7/13/2016,9/19/2017,3/5/2018**	**NP (nrm)/OH**	**NaN**	**16**	**0.0002227**	**0.00007933**	**ShapiroWilk**
Lead (mg/L)	**MW-06-7R (bg)**	**Yes**	**0.0021**	**3/5/2018**	**OH**	**NaN**	**16**	**0.0003649**	**0.0004635**	**n/a**
Nickel (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	16	0.002511	0.000045	n/a
Selenium (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	16	0.002382	0.0003234	n/a
Silver (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	16	0.0005743	0.0002283	n/a
Thallium (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	16	0.0005321	0.0001459	n/a
Vanadium (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	16	0.002462	0.00015	n/a
Zinc (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	16	0.009401	0.001638	n/a

EPA Screening (suspected outliers for Dixon's Test)

MW-06-7R (bg)



n = 16

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.002807, std. dev. 0.002124, critical Tn 2.443

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8546
Critical = 0.844
The distribution was found to be normally distributed.

Constituent: Arsenic Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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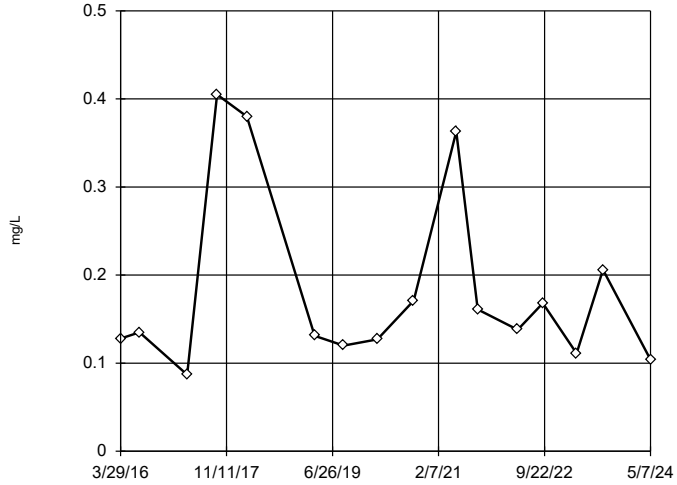
EPA Screening (suspected outliers for Dixon's Test)

MW-06-7R (bg)



n = 16

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.1834, std. dev. 0.1032, critical Tn 2.443

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8627
Critical = 0.844 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Barium Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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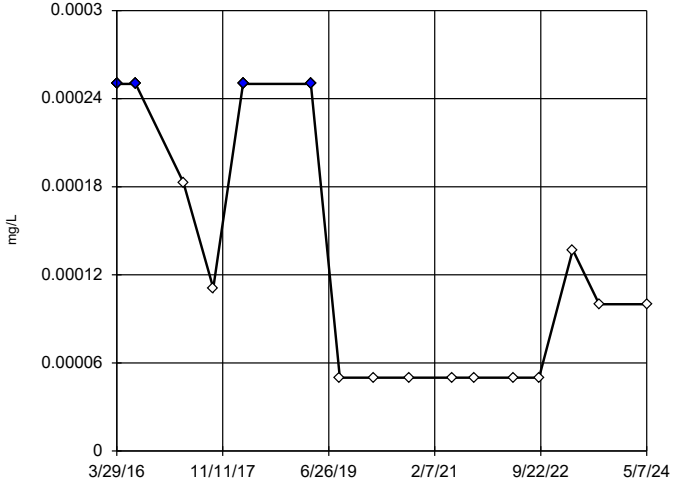
Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 16

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Cadmium Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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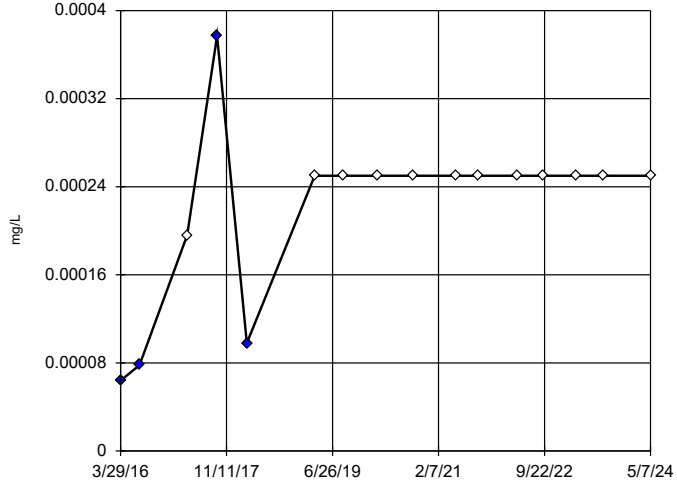
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 16

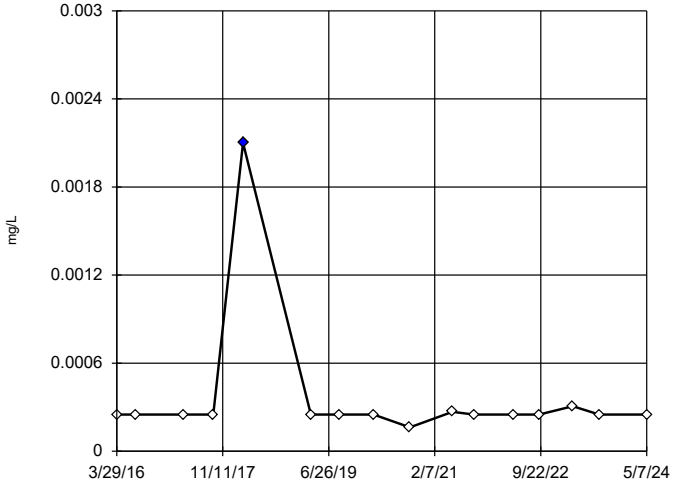
Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.000331, low cutoff = 0.000142, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 16

Statistical outlier is drawn as solid.
Outlier per Ohio method.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.6714
Critical = 0.844
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Lead Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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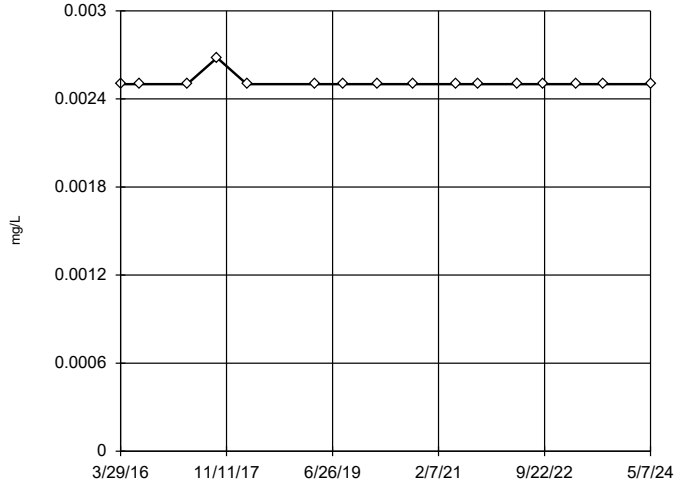
Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 16

No statistical outliers.

Constituent: Nickel Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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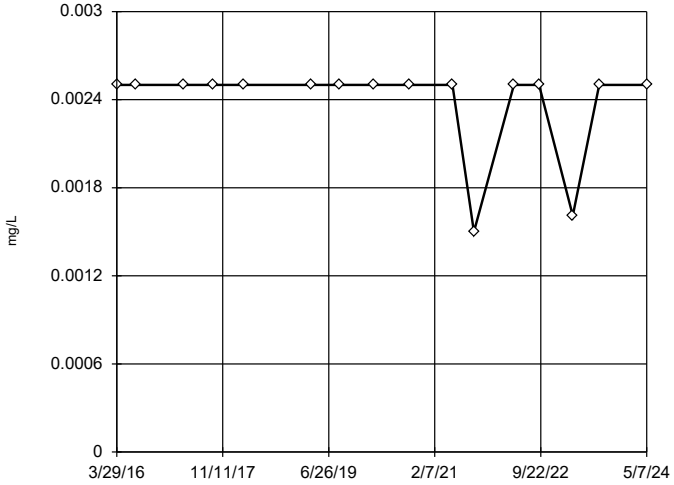
Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 16

No statistical outliers.

Constituent: Selenium Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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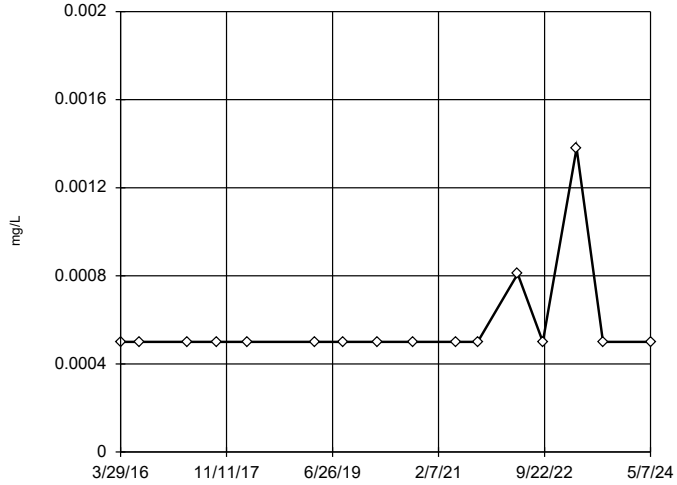
Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



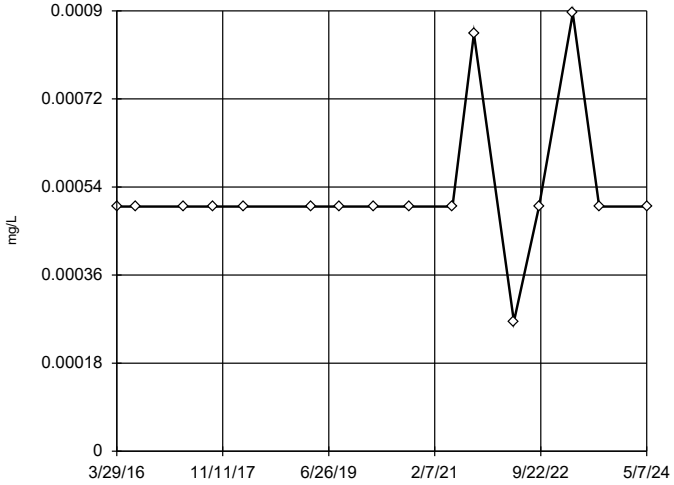
n = 16

No statistical outliers.

Constituent: Silver Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 16

No statistical outliers.

Constituent: Thallium Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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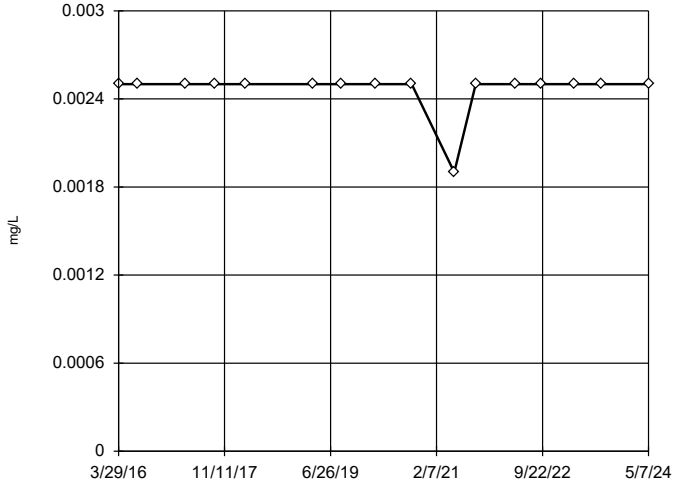
Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 16

No statistical outliers.

Constituent: Vanadium Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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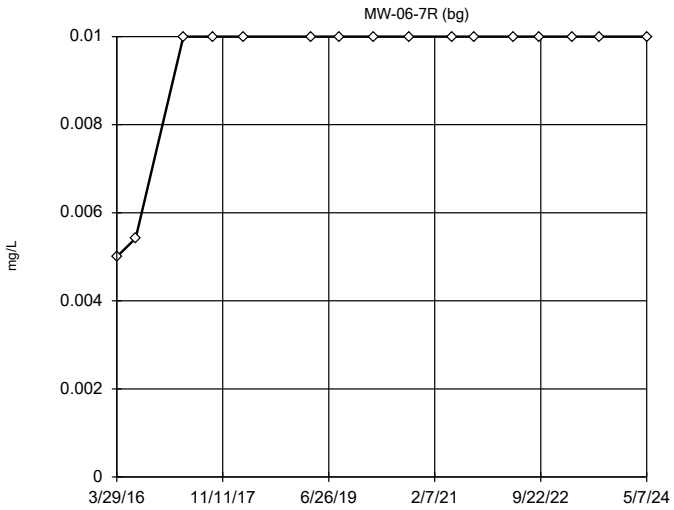
Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 16

No statistical outliers.

Constituent: Zinc Analysis Run 6/25/2024 11:17 AM View: 2024SSN - Outliers - Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Interwell Prediction Limit

Water Table Aquifer

Prediction Limit

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 6/25/2024, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	MW-05-2	0.5281	n/a	5/7/2024	0.13	No	16	MW-06-7R	-1.813	0.4701	0	None	ln(x)	0.000532	Param Inter 1 of 2
Barium (mg/L)	MW-29	0.5281	n/a	5/7/2024	0.143	No	16	MW-06-7R	-1.813	0.4701	0	None	ln(x)	0.000532	Param Inter 1 of 2
Barium (mg/L)	MW-05-8R	0.5281	n/a	5/7/2024	0.263	No	16	MW-06-7R	-1.813	0.4701	0	None	ln(x)	0.000532	Param Inter 1 of 2
Barium (mg/L)	MW-19	0.5281	n/a	5/7/2024	0.176	No	16	MW-06-7R	-1.813	0.4701	0	None	ln(x)	0.000532	Param Inter 1 of 2
Chromium (mg/L)	**MW-29**	**0.0025**	**n/a**	**5/7/2024**	**0.00682**	**Yes**	**16**	**MW-06-7R**	**n/a**	**n/a**	**100**	**n/a**	**n/a**	**0.005453**	**NP Inter (NDs) 1 of 2**
Lead (mg/L)	MW-19	0.0021	n/a	5/7/2024	0.0004505J	No	16	MW-06-7R	n/a	n/a	75	n/a	n/a	0.005453	NP Inter (NDs) 1 of 2

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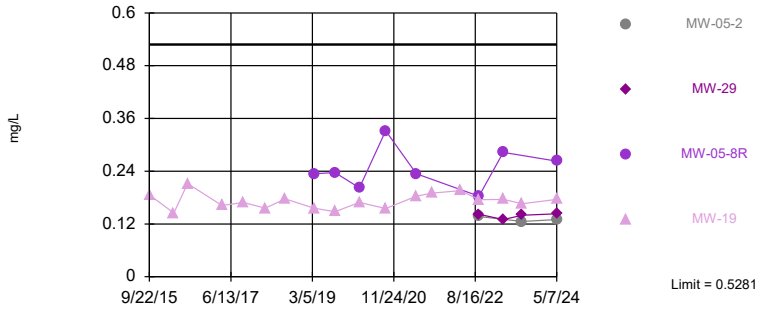
Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-1.813, Std. Dev.=0.4701, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8627, critical = 0.844. Kappa = 2.498 (c=11, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.004778. Individual comparison alpha = 0.000532. Comparing 4 points to limit. Assumes 5 future values.

Constituent: Barium Analysis Run 6/25/2024 4:31 PM View: 2023SSN - PL Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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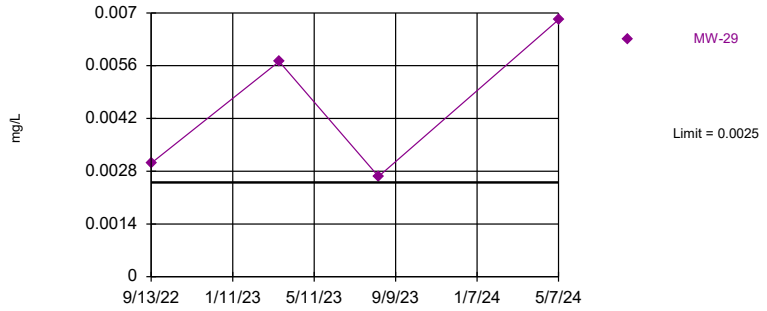
Exceeds Limit: MW-29

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 100% NDs. Annual per-constituent alpha = 0.09374. Individual comparison alpha = 0.005453 (1 of 2). Assumes 8 future values.

Constituent: Chromium Analysis Run 6/25/2024 4:31 PM View: 2023SSN - PL Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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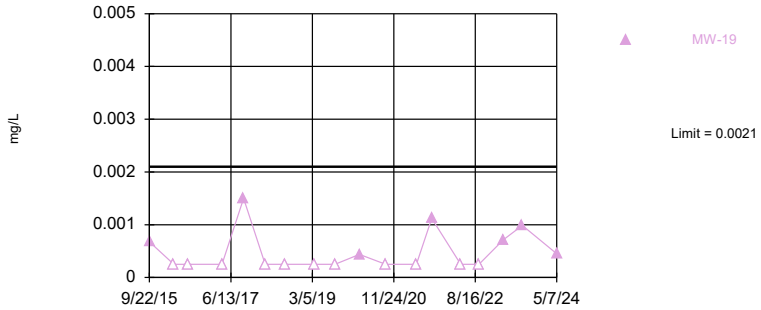
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Annual per-constituent alpha = 0.09374. Individual comparison alpha = 0.005453 (1 of 2). Assumes 8 future values.

Constituent: Lead Analysis Run 6/25/2024 4:31 PM View: 2023SSN - PL Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Intrawell Prediction Limit

Bedrock

Intrawell Prediction Limit

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 6/26/2024, 10:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-39	0.0031	n/a	5/7/2024	0.001ND	No	8	n/a	n/a	n/a	75	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-39	0.703	n/a	5/7/2024	0.327	No	8	n/a	n/a	n/a	0	n/a	n/a	0.02144	NP Intra (normality) 1 of 2
Beryllium (mg/L)	MW-39	0.00208	n/a	5/7/2024	0.0005ND	No	8	n/a	n/a	n/a	75	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	MW-39	0.000648	n/a	5/7/2024	0.0001ND	No	8	n/a	n/a	n/a	62.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Chromium (mg/L)	MW-39	0.01175	n/a	5/7/2024	0.0025ND	No	8	n/a	0.003856	0.002693	25	Kaplan-Meier	No	0.001097	Param Intra 1 of 2
Cobalt (mg/L)	MW-39	0.02131	n/a	5/7/2024	0.00192	No	8	n/a	0.04459	0.03457	0	None	sqrt(x)	0.001097	Param Intra 1 of 2
Copper (mg/L)	MW-39	0.0135	n/a	5/7/2024	0.0025ND	No	8	n/a	n/a	n/a	62.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-39	0.1477	n/a	5/7/2024	0.000458J	No	8	n/a	-6.427	1.54	0	None	ln(x)	0.001097	Param Intra 1 of 2
Nickel (mg/L)	MW-39	0.0227	n/a	5/7/2024	0.0025ND	No	8	n/a	n/a	n/a	50	n/a	n/a	0.02144	NP Intra (normality) 1 of 2
Selenium (mg/L)	MW-39	0.0025	n/a	5/7/2024	0.0025ND	No	8	n/a	n/a	n/a	75	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-39	0.07673	n/a	5/7/2024	0.0025ND	No	8	n/a	0.1696	0.08708	12.5	None	x^(1/3)	0.001097	Param Intra 1 of 2
Zinc (mg/L)	MW-39	0.0755	n/a	5/7/2024	0.01ND	No	8	n/a	n/a	n/a	62.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2

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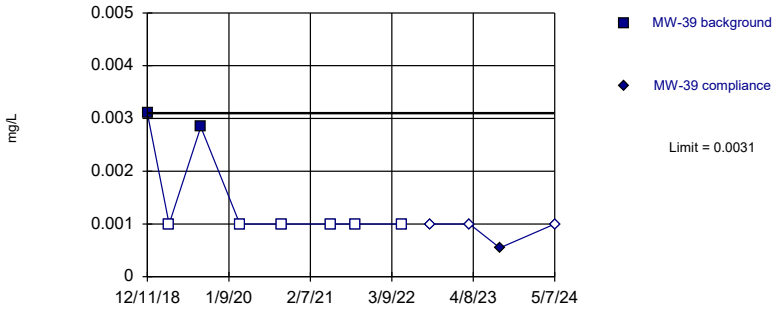
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Arsenic Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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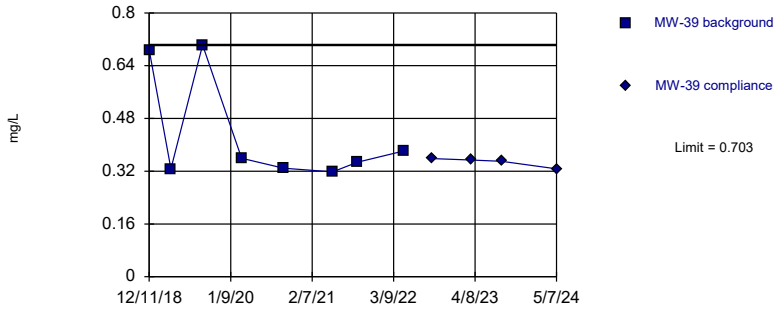
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Barium Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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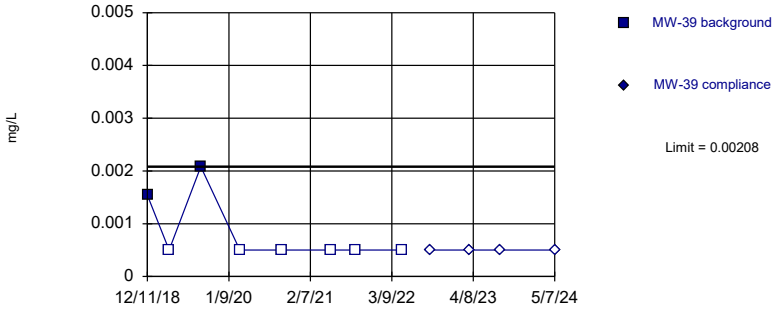
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Beryllium Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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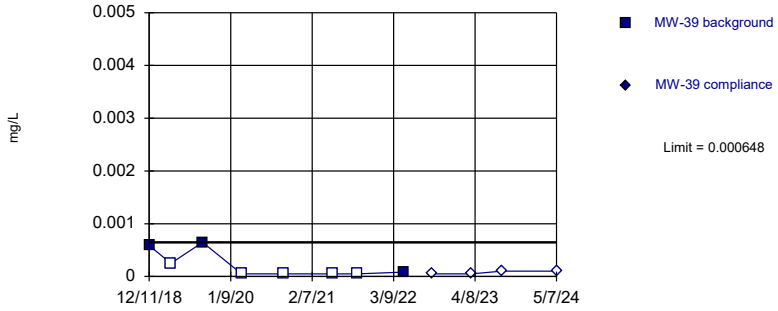
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Cadmium Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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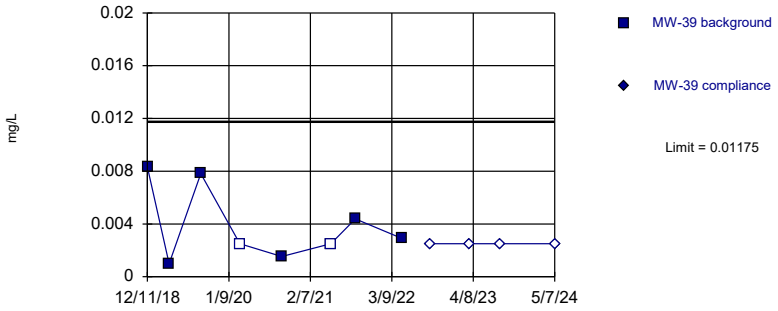
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003856, Std. Dev.=0.002693, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8495, critical = 0.749. Kappa = 2.932 (c=12, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.001097.

Constituent: Chromium Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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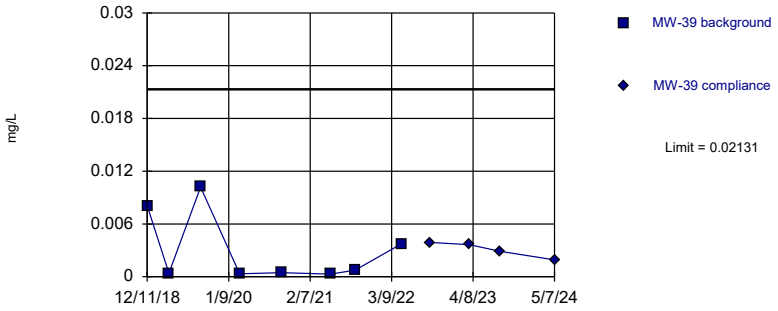
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.04459, Std. Dev.=0.03457, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7798, critical = 0.749. Kappa = 2.932 (c=12, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.001097.

Constituent: Cobalt Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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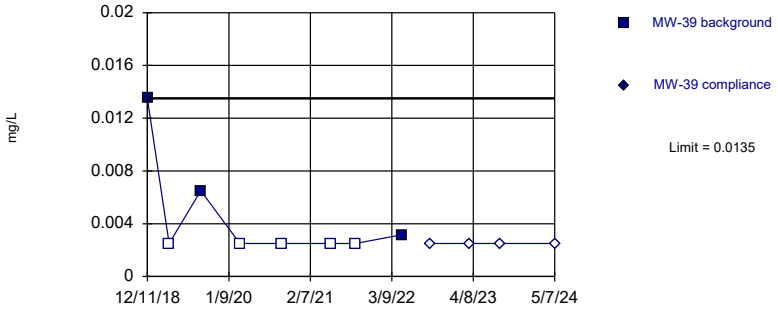
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Copper Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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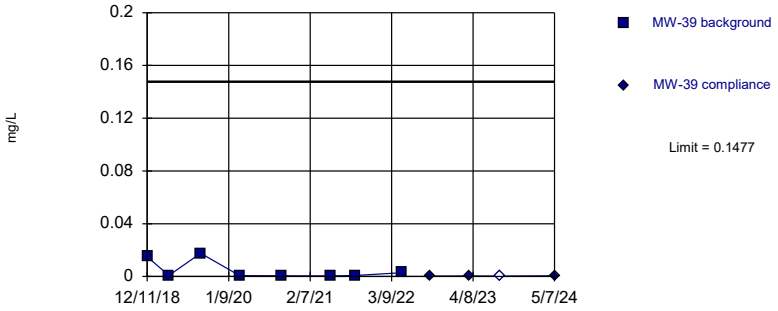
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



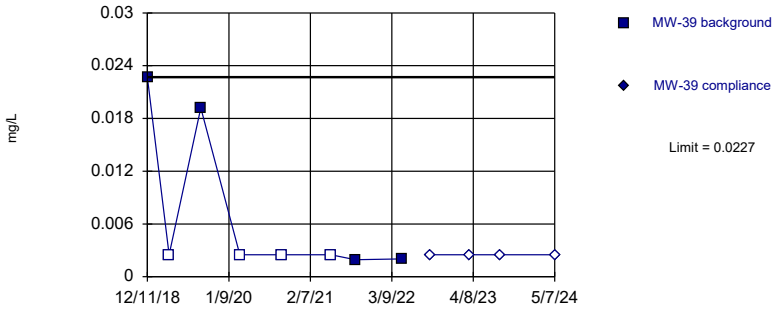
Background Data Summary (based on natural log transformation): Mean=-6.427, Std. Dev.=1.54, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8069, critical = 0.749. Kappa = 2.932 (c=12, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.001097.

Constituent: Lead Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



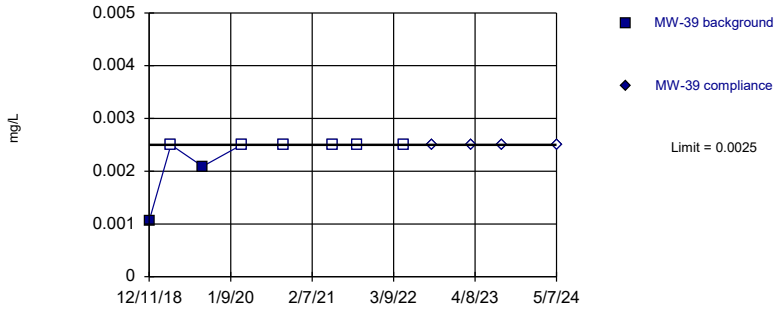
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. 50% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Nickel Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



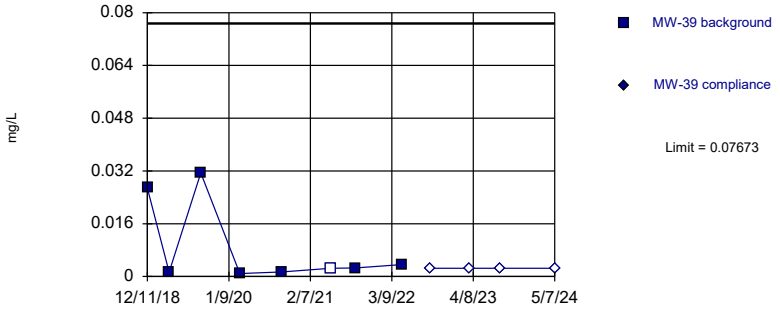
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Selenium Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Parametric



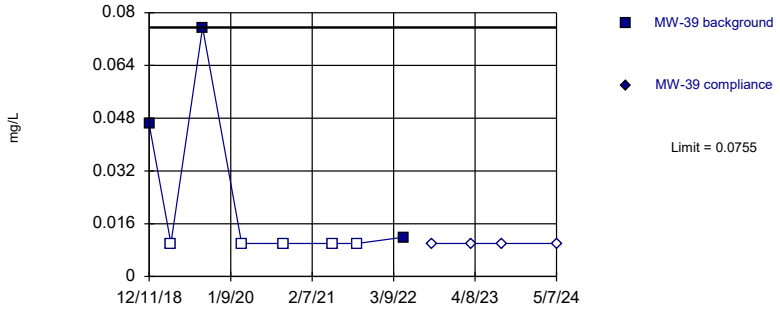
Background Data Summary (based on cube root transformation): Mean=0.1696, Std. Dev.=0.08708, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7579, critical = 0.749. Kappa = 2.932 (c=12, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.001097.

Constituent: Vanadium Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Zinc Analysis Run 6/26/2024 10:40 AM View: 2024SSN - IntraPL MW-39
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Intrawell Prediction Limit

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 6/26/2024, 10:55 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	MW-40	0.01874	n/a	5/7/2024	0.0167	No	8	n/a	0.01614	0.001214	0	None	No	0.00438	Param Intra 1 of 2
Chromium (mg/L)	MW-40	0.0025	n/a	5/7/2024	0.0025ND	No	8	n/a	n/a	n/a	87.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-40	0.00025	n/a	5/7/2024	0.00025ND	No	8	n/a	n/a	n/a	87.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2

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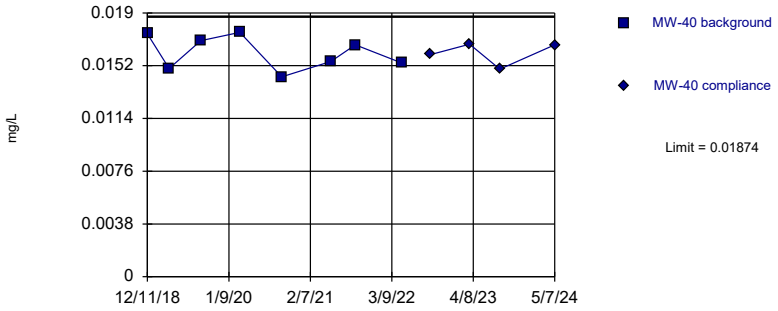
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.01614, Std. Dev.=0.001214, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9157, critical = 0.749. Kappa = 2.14 (c=3, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00438.

Constituent: Barium Analysis Run 6/26/2024 10:54 AM View: 2024SSN - IntraPL MW-40

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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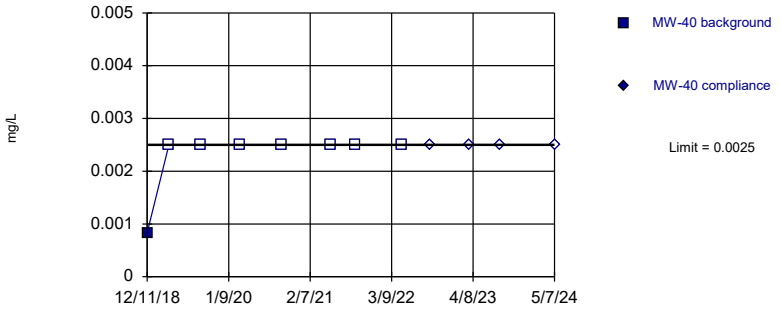
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Chromium Analysis Run 6/26/2024 10:54 AM View: 2024SSN - IntraPL MW-40

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

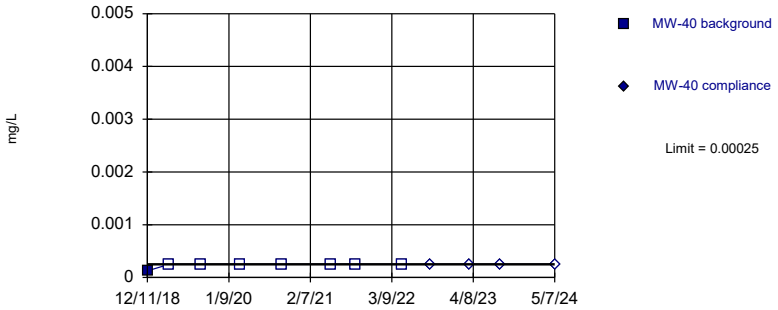
Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Cobalt Analysis Run 6/26/2024 10:54 AM View: 2024SSN - IntraPL MW-40

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Intrawell Prediction Limit

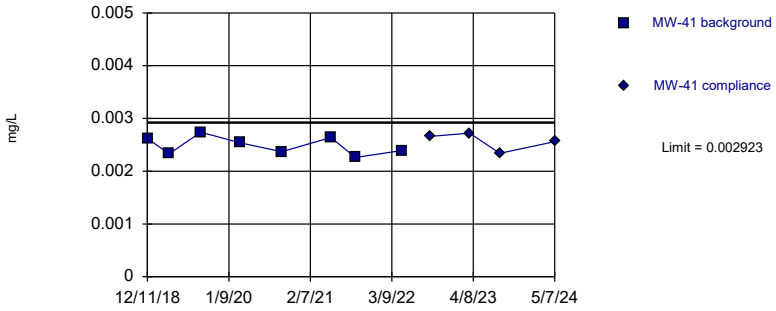
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 6/26/2024, 11:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-41	0.002923	n/a	5/7/2024	0.00256	No	8	n/a	0.002486	0.000172	0	None	No	0.002193	Param Intra 1 of 2
Barium (mg/L)	MW-41	0.1781	n/a	5/7/2024	0.162	No	8	n/a	0.1639	0.005617	0	None	No	0.002193	Param Intra 1 of 2
Cadmium (mg/L)	MW-41	0.00025	n/a	5/7/2024	0.0001ND	No	8	n/a	n/a	n/a	75	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Chromium (mg/L)	MW-41	0.0043	n/a	5/7/2024	0.0025ND	No	8	n/a	n/a	n/a	75	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-41	0.0005807	n/a	5/7/2024	0.000393J	No	8	n/a	0.0004088	0.0000677	0	None	No	0.002193	Param Intra 1 of 2
Lead (mg/L)	MW-41	0.000869	n/a	5/7/2024	0.00025ND	No	8	n/a	n/a	n/a	50	n/a	n/a	0.02144	NP Intra (normality) 1 of 2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.002486, Std. Dev.=0.000172, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.749. Kappa = 2.538 (c=6, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.002193.

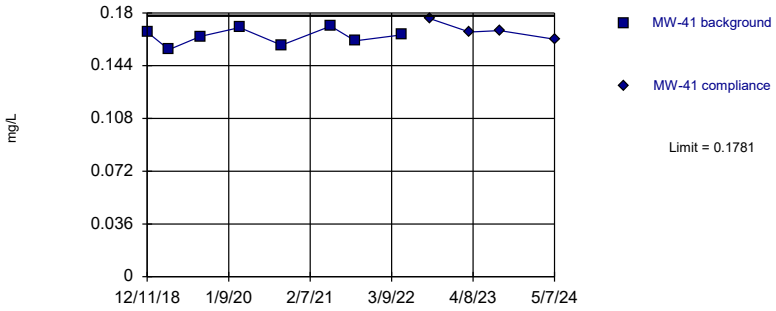
Constituent: Arsenic Analysis Run 6/26/2024 11:01 AM View: 2024SSN - IntraPL MW-41

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1639, Std. Dev.=0.005617, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9627, critical = 0.749. Kappa = 2.538 (c=6, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.002193.

Constituent: Barium Analysis Run 6/26/2024 11:01 AM View: 2024SSN - IntraPL MW-41

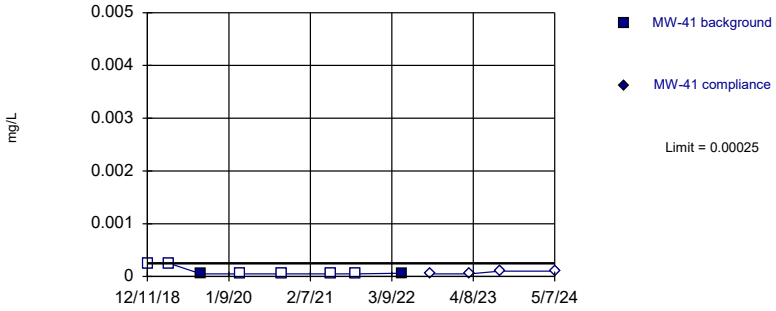
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Cadmium Analysis Run 6/26/2024 11:02 AM View: 2024SSN - IntraPL MW-41

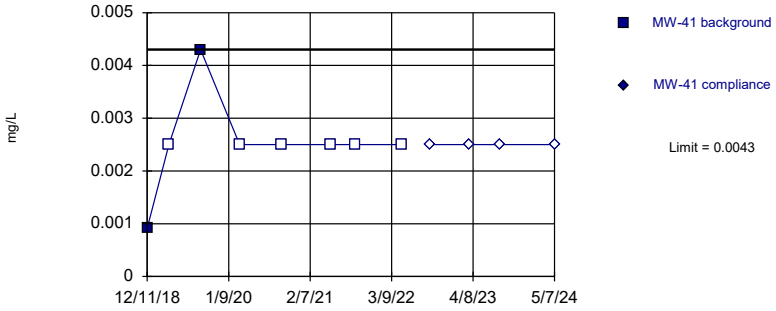
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

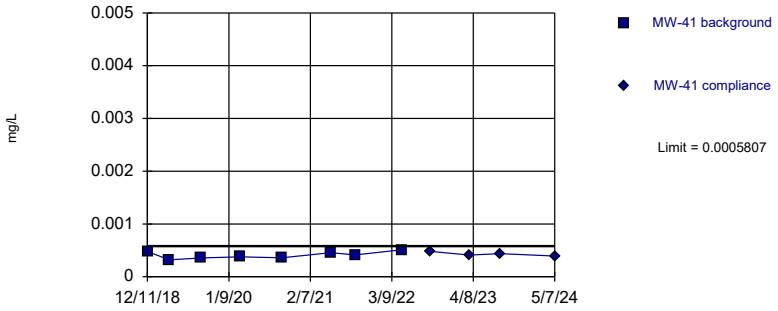
Constituent: Chromium Analysis Run 6/26/2024 11:02 AM View: 2024SSN - IntraPL MW-41

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.0004088, Std. Dev.=0.00006774, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9406, critical = 0.749. Kappa = 2.538 (c=6, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.002193.

Constituent: Cobalt Analysis Run 6/26/2024 11:02 AM View: 2024SSN - IntraPL MW-41

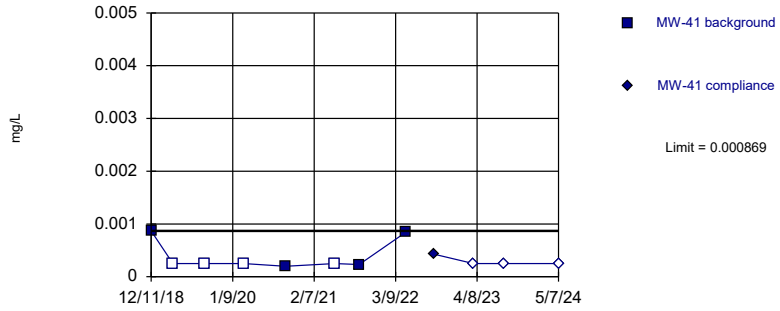
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. 50% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Lead Analysis Run 6/26/2024 11:02 AM View: 2024SSN - IntraPL MW-41

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Intrawell Prediction Limit

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 6/26/2024, 11:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	MW-42	0.2128	n/a	5/7/2024	0.17	No	8	n/a	0.1696	0.0165	0	None	No	0.00188	Param Intra 1 of 2
Chromium (mg/L)	MW-42	0.0025	n/a	5/7/2024	0.0025ND	No	8	n/a	n/a	n/a	87.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-42	0.0004407	n/a	5/7/2024	0.00025ND	No	8	n/a	0.0001818	0.0000989	37.5	Kaplan-Meier	No	0.00188	Param Intra 1 of 2
Lead (mg/L)	MW-42	0.00115	n/a	5/7/2024	0.00025ND	No	8	n/a	n/a	n/a	62.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-42	0.0025	n/a	5/7/2024	0.0025ND	No	8	n/a	n/a	n/a	87.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Selenium (mg/L)	MW-42	0.002836	n/a	5/7/2024	0.0025ND	No	8	n/a	0.001628	0.000462	0	None	No	0.00188	Param Intra 1 of 2
Vanadium (mg/L)	MW-42	0.0025	n/a	5/7/2024	0.0025ND	No	8	n/a	n/a	n/a	87.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2

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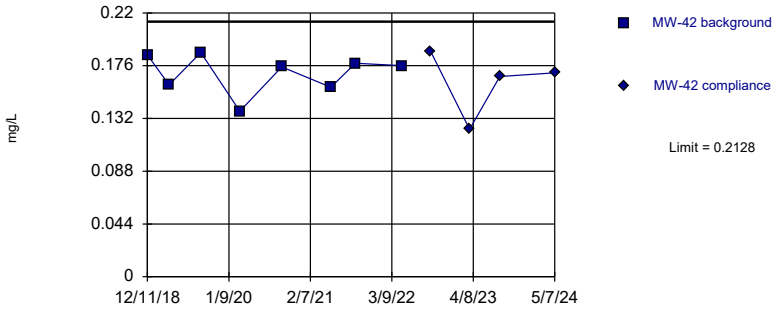
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1696, Std. Dev.=0.0165, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8989, critical = 0.749. Kappa = 2.616 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Barium Analysis Run 6/26/2024 11:07 AM View: 2024SSN - IntraPL MW-42

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

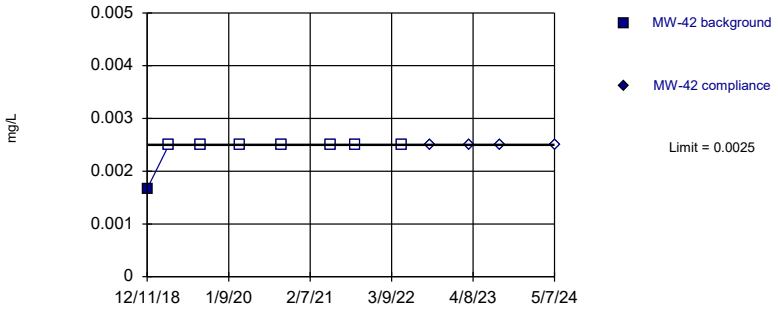
Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Chromium Analysis Run 6/26/2024 11:07 AM View: 2024SSN - IntraPL MW-42

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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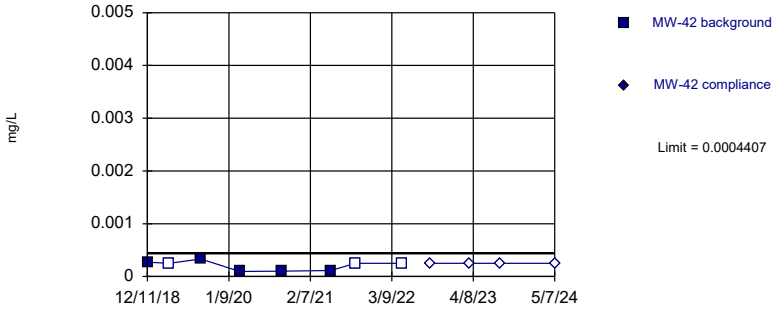
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0001818, Std. Dev.=0.00009897, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8416, critical = 0.749. Kappa = 2.616 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Cobalt Analysis Run 6/26/2024 11:07 AM View: 2024SSN - IntraPL MW-42

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

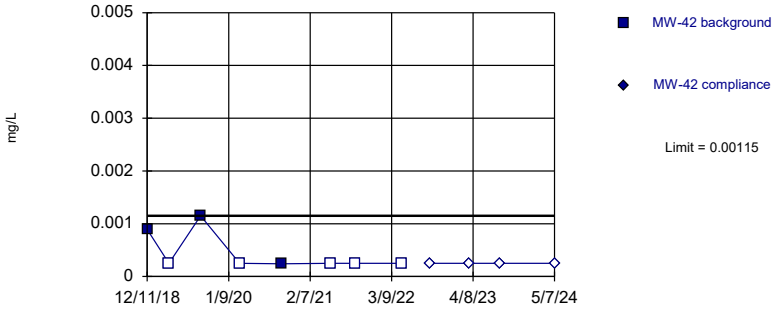
Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Lead Analysis Run 6/26/2024 11:07 AM View: 2024SSN - IntraPL MW-42

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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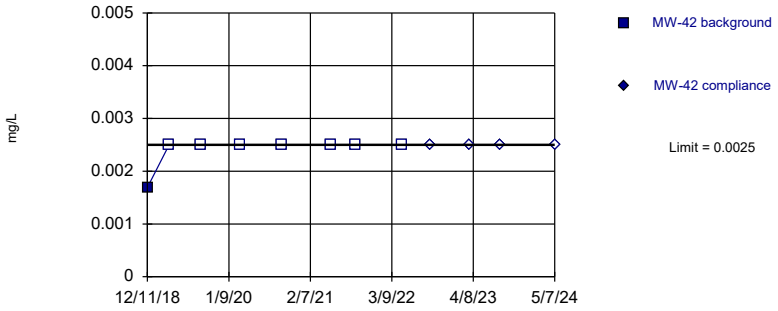
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

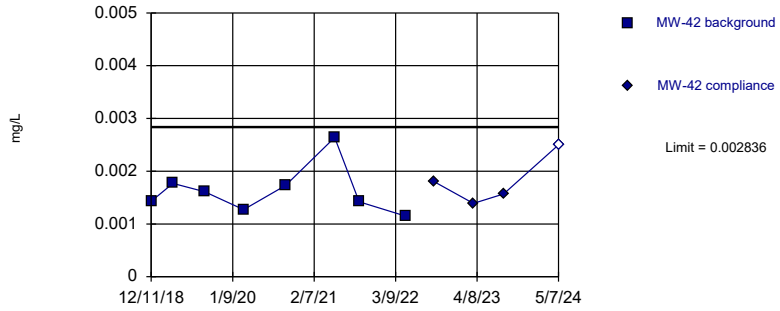
Constituent: Nickel Analysis Run 6/26/2024 11:07 AM View: 2024SSN - IntraPL MW-42
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.001628, Std. Dev.=0.000462, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8457, critical = 0.749. Kappa = 2.616 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

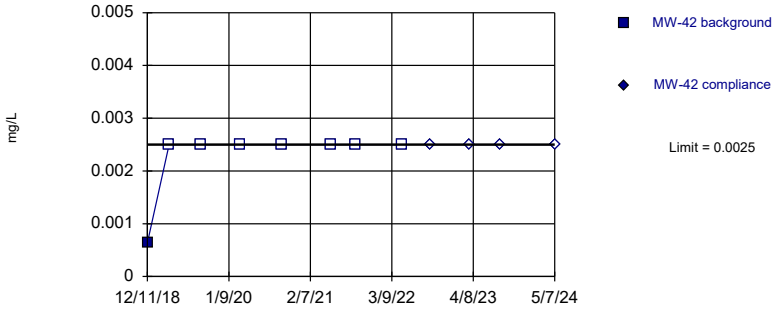
Constituent: Selenium Analysis Run 6/26/2024 11:07 AM View: 2024SSN - IntraPL MW-42
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Vanadium Analysis Run 6/26/2024 11:07 AM View: 2024SSN - IntraPL MW-42
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Mann-Kendall Summary Table

Water Table Aquifer

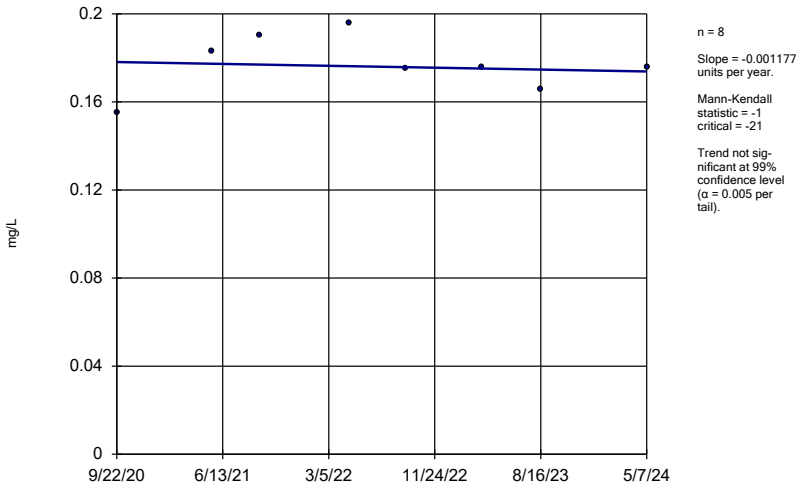
Trend Test

Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN MW-19 Printed 6/25/2024, 5:03 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Barium (mg/L)	MW-19	-0.001177	-1	-21	No	8	0	0.01	NP
Cadmium (mg/L)	MW-19	-0.00002284	-7	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-19	0.00004842	7	21	No	8	37.5	0.01	NP
Lead (mg/L)	MW-19	0.00006138	8	21	No	8	50	0.01	NP
Nickel (mg/L)	MW-19	-0.002606	-20	-21	No	8	12.5	0.01	NP
Silver (mg/L)	MW-19	0	1	21	No	8	87.5	0.01	NP
Thallium (mg/L)	MW-19	0	3	21	No	8	75	0.01	NP

Sen's Slope Estimator

MW-19



n = 8

Slope = -0.001177 units per year.

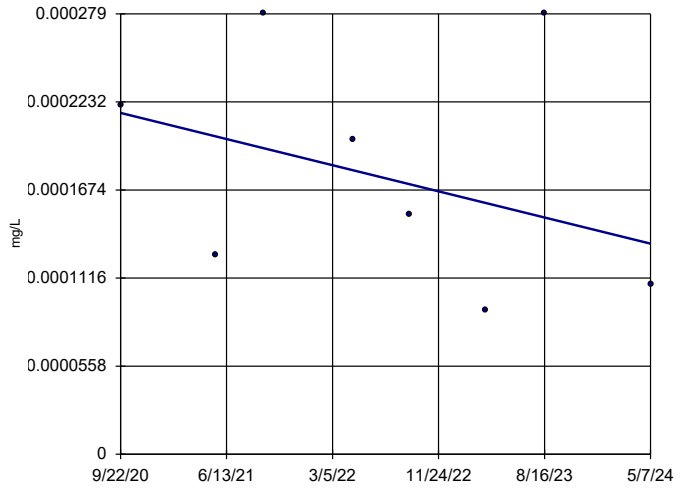
Mann-Kendall statistic = -1
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/25/2024 5:01 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN MW-19

Sen's Slope Estimator

MW-19



n = 8

Slope = -0.00002284 units per year.

Mann-Kendall statistic = -7
critical = -21

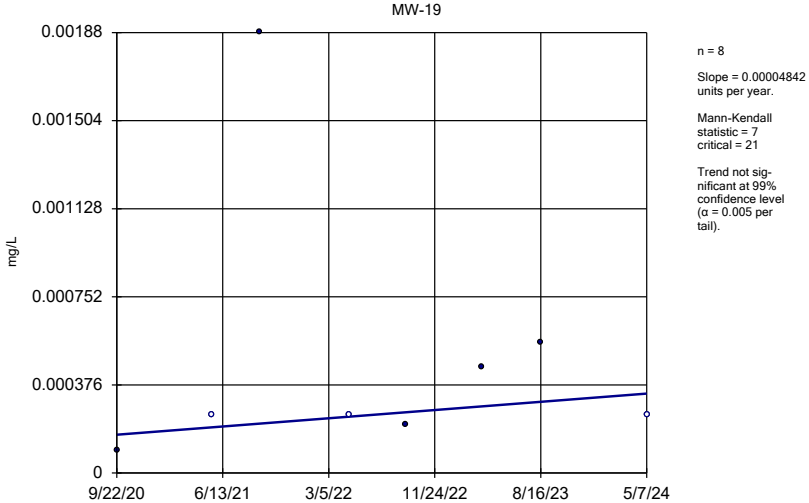
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 6/25/2024 5:01 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN MW-19

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19



n = 8

Slope = 0.00004842 units per year.

Mann-Kendall statistic = 7
critical = 21

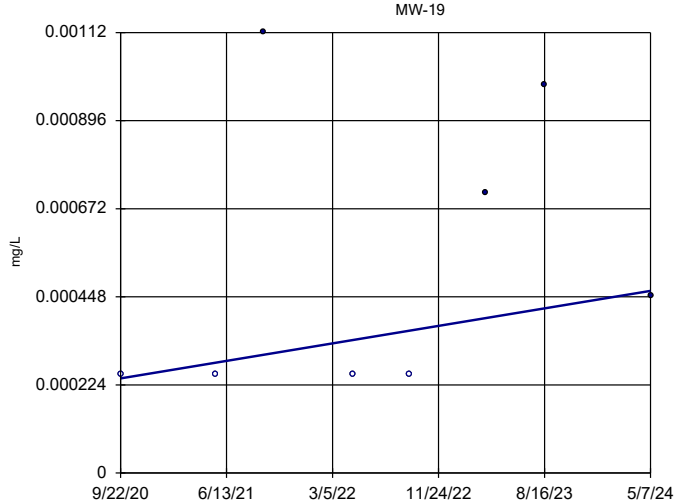
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 6/25/2024 5:01 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN MW-19

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19



n = 8

Slope = 0.00006138 units per year.

Mann-Kendall statistic = 8
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 6/25/2024 5:01 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN MW-19

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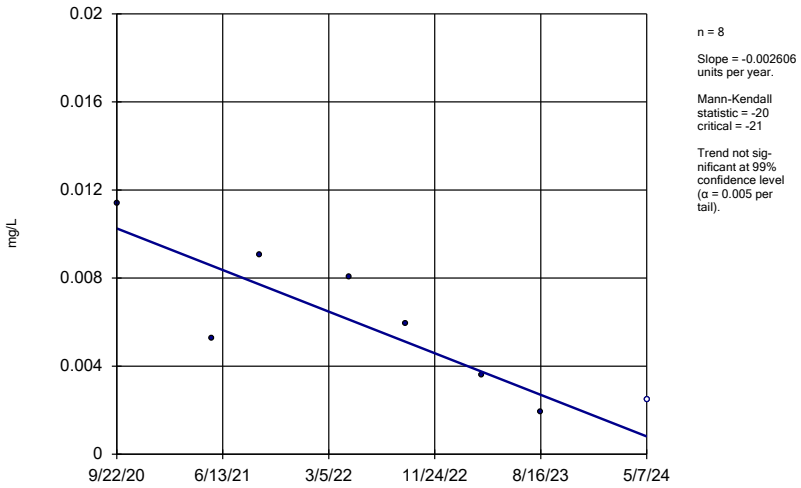
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19



n = 8

Slope = -0.002606 units per year.

Mann-Kendall statistic = -20
critical = -21

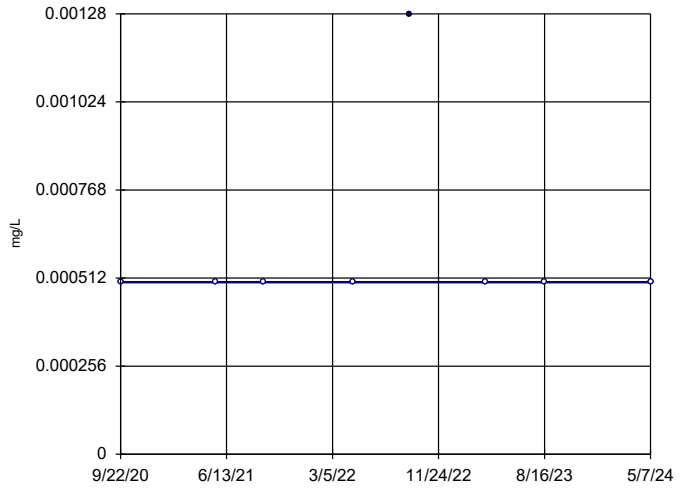
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/25/2024 5:02 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN MW-19

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 21

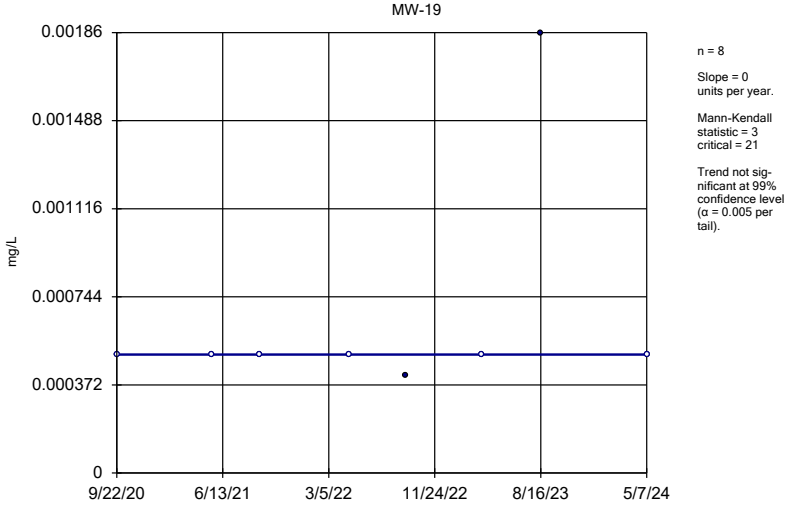
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Silver Analysis Run 6/25/2024 5:02 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN MW-19

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Thallium Analysis Run 6/25/2024 5:02 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN MW-19

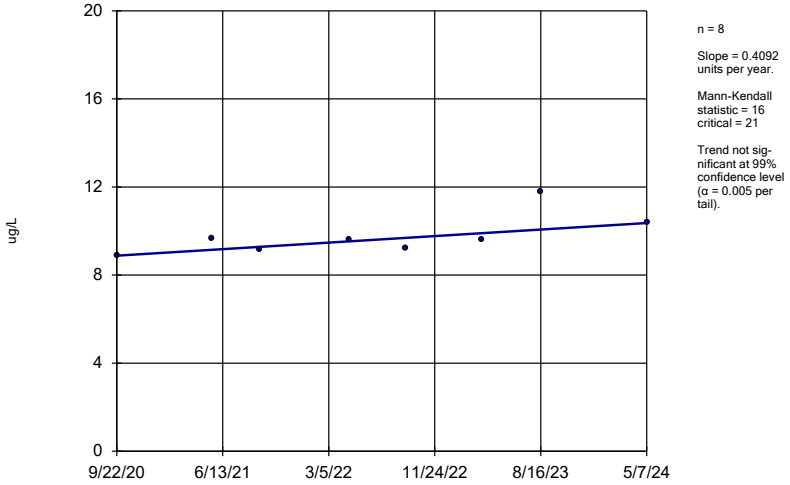
Trend Test

Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source Printed 6/25/2024, 5:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-20	0.4092	16	21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	MW-24	-0.6758	-12	-21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	MW-90-11	-0.2709	-14	-21	No	8	0	0.01	NP
1,2-Dichloropropane (ug/L)	**MW-24**	**-0.2299**	**-24**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
2,4-D [2C] (ug/L)	MW-33	-0.004108	-2	-21	No	8	62.5	0.01	NP
3/4-Methylphenol (ug/L)	MW-33	-0.02511	-3	-21	No	8	50	0.01	NP
Acetone (ug/L)	MW-33	0	-1	-21	No	8	37.5	0.01	NP
Arsenic (mg/L)	MW-20	0.0008084	6	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-24	0.0002131	8	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-32	0.001145	4	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-33	-0.000647	-4	-21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-90-11	-0.006458	-12	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-20	0.0904	18	21	No	8	0	0.01	NP
Barium (mg/L)	MW-24	-0.0008511	-5	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-32	-0.02401	-10	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-33	-0.02516	-18	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-90-11	0	0	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-20	0.03827	6	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-24	0.02276	0	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-32	0.005477	0	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-33	0.08401	4	21	No	8	12.5	0.01	NP
Benzene (ug/L)	MW-90-11	-0.0665	-15	-21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-20	0.000006897	7	21	No	8	87.5	0.01	NP
Chlorobenzene (ug/L)	MW-32	-0.06933	-4	-21	No	8	12.5	0.01	NP
Chlorobenzene (ug/L)	MW-90-11	-1.113	-11	-21	No	8	0	0.01	NP
Chloroethane (ug/L)	MW-20	-1.481	-20	-21	No	8	0	0.01	NP
Chloroethane (ug/L)	MW-24	-0.3448	-8	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-20	0.1668	6	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-24	-0.7761	-16	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-32	-0.3813	-18	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-90-11	-0.4854	-14	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-20	0.0003657	2	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-24	0.00004556	1	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-32	-0.003376	-16	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-33	-0.002449	-8	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-90-11	-0.000455	-8	-21	No	8	0	0.01	NP
Lead (mg/L)	MW-24	0	9	21	No	8	75	0.01	NP
Lead (mg/L)	MW-32	-0.000005489	-6	-21	No	8	50	0.01	NP
Lead (mg/L)	MW-33	0.0000616	9	21	No	8	25	0.01	NP
Lead (mg/L)	MW-90-11	0	5	21	No	8	87.5	0.01	NP
Nickel (mg/L)	MW-20	-0.001044	-8	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-24	0	1	21	No	8	37.5	0.01	NP
Nickel (mg/L)	MW-32	-0.00424	-20	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-33	-0.00468	-12	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-90-11	0.0002247	8	21	No	8	0	0.01	NP
Thallium (mg/L)	MW-90-11	0	5	21	No	8	75	0.01	NP
Vinyl chloride (ug/L)	MW-20	-0.00841	-1	-21	No	8	12.5	0.01	NP
Vinyl chloride (ug/L)	MW-24	-0.407	-14	-21	No	8	12.5	0.01	NP

Sen's Slope Estimator

MW-20

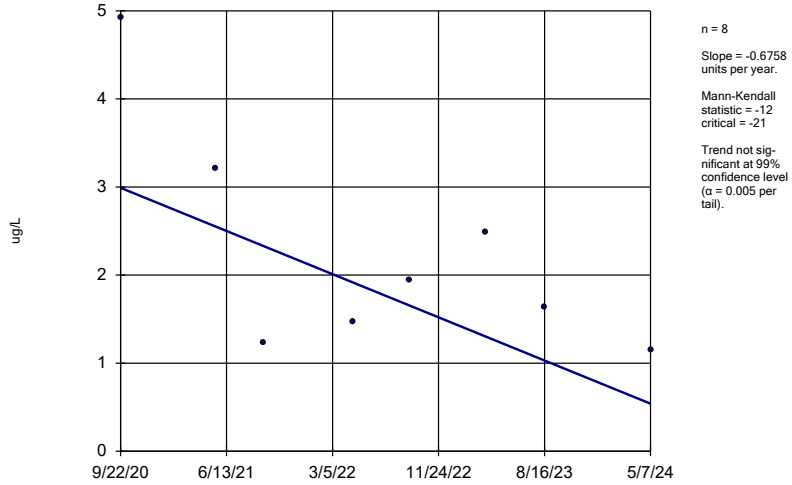


Constituent: 1,1-Dichloroethane Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24

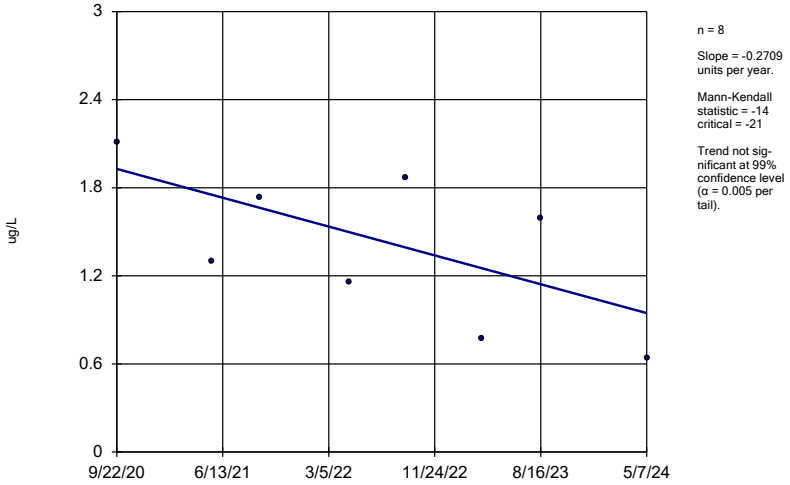


Constituent: 1,1-Dichloroethane Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-90-11

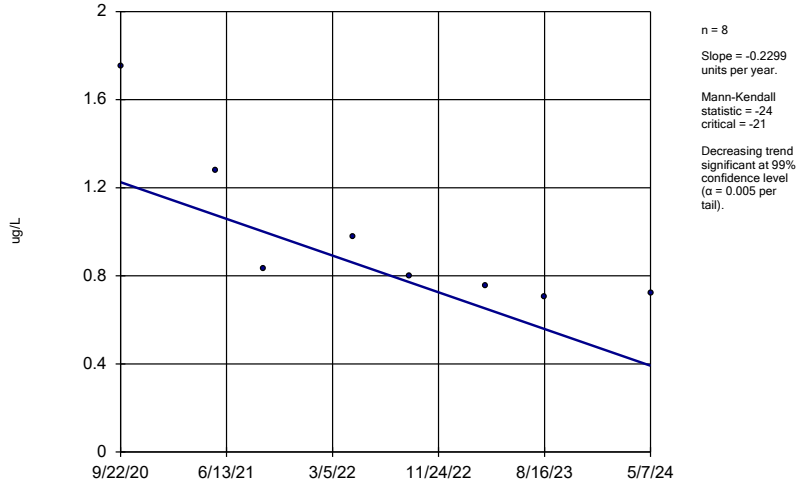


Constituent: 1,1-Dichloroethane Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24

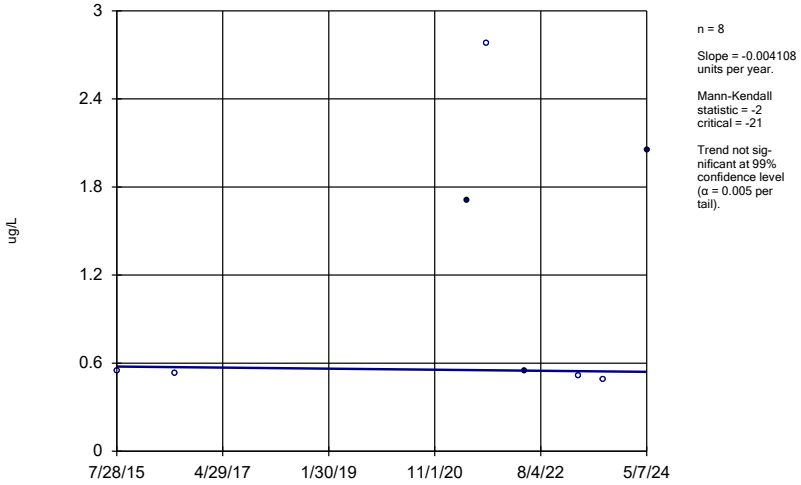


Constituent: 1,2-Dichloropropane Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33



Constituent: 2,4-D [2C] Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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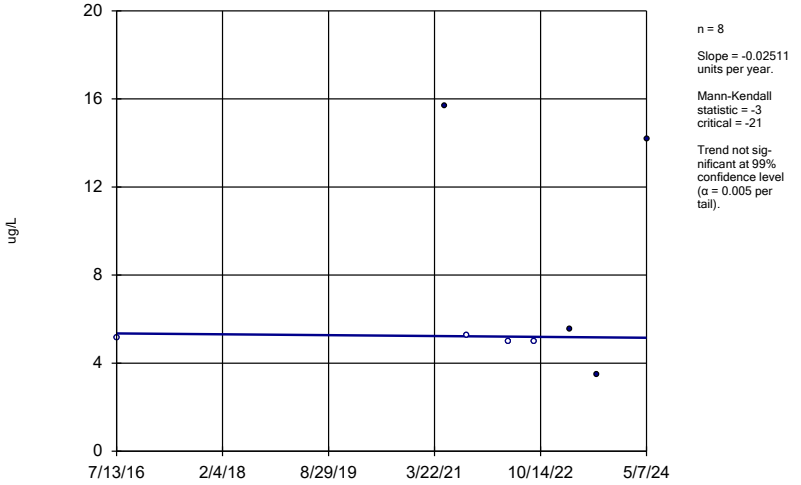
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33

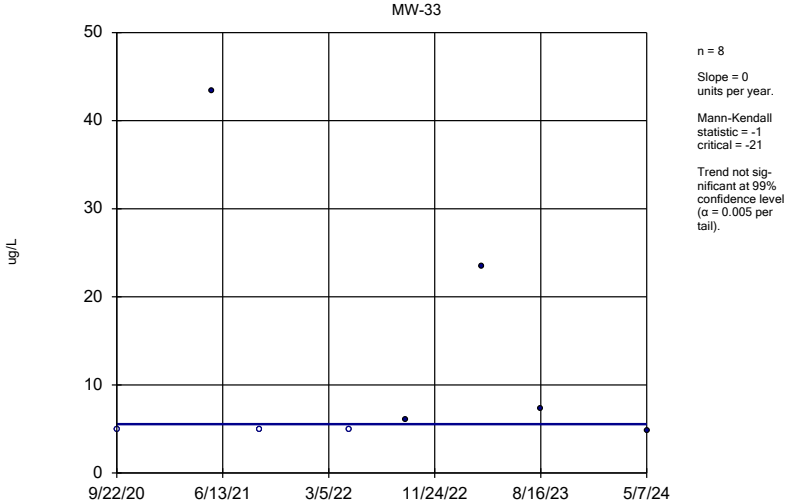


Constituent: 3/4-Methylphenol Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33

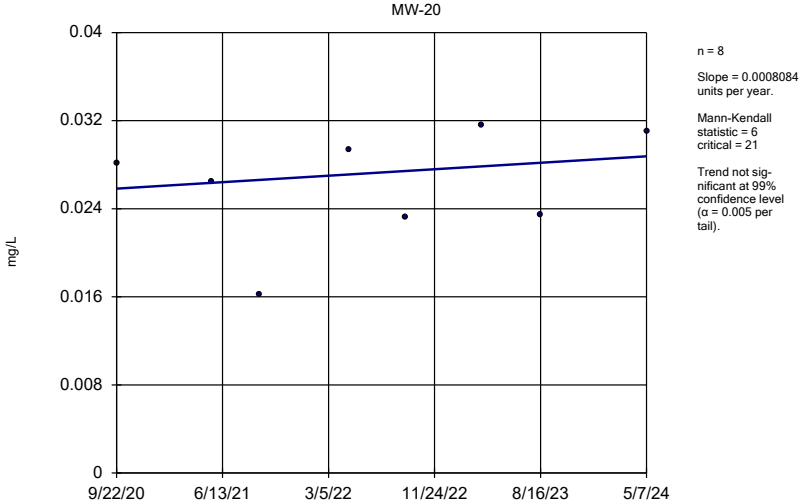


Constituent: Acetone Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

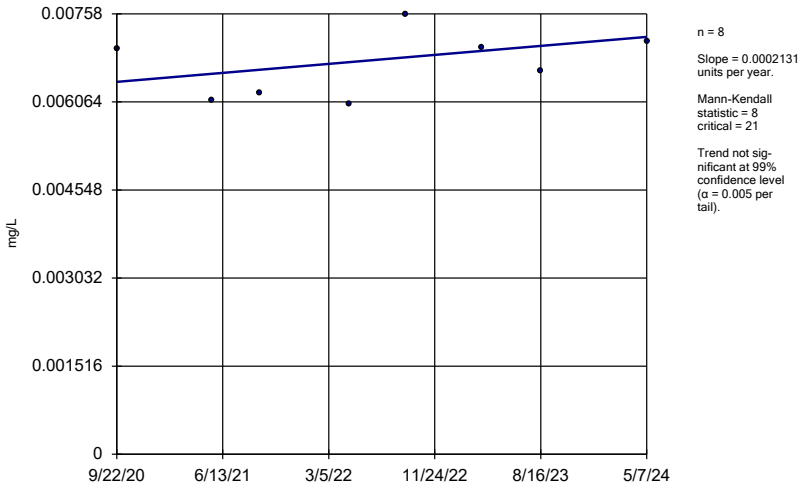
MW-20



Constituent: Arsenic Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

MW-24

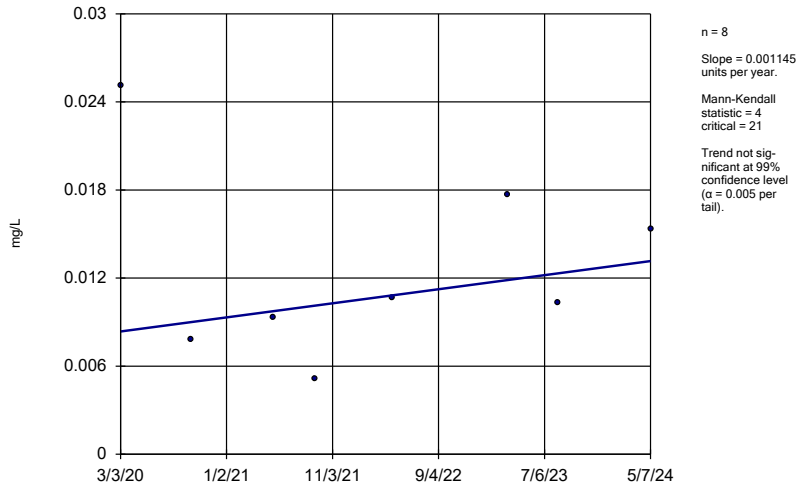


Constituent: Arsenic Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-32

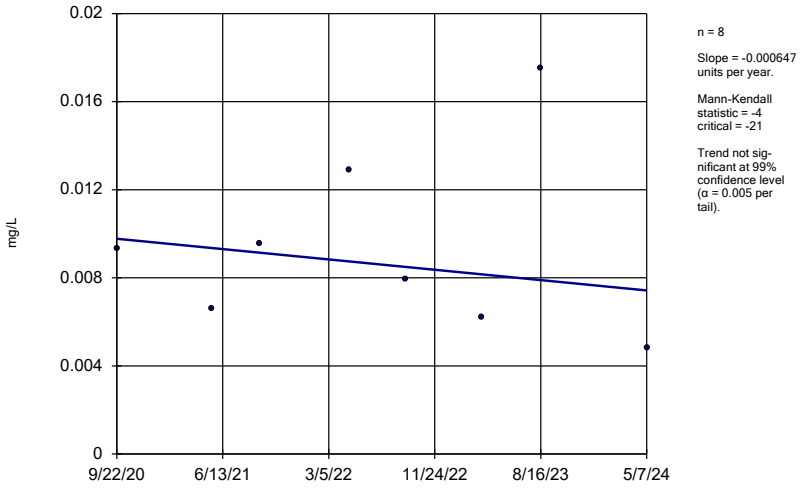


Constituent: Arsenic Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-33



Constituent: Arsenic Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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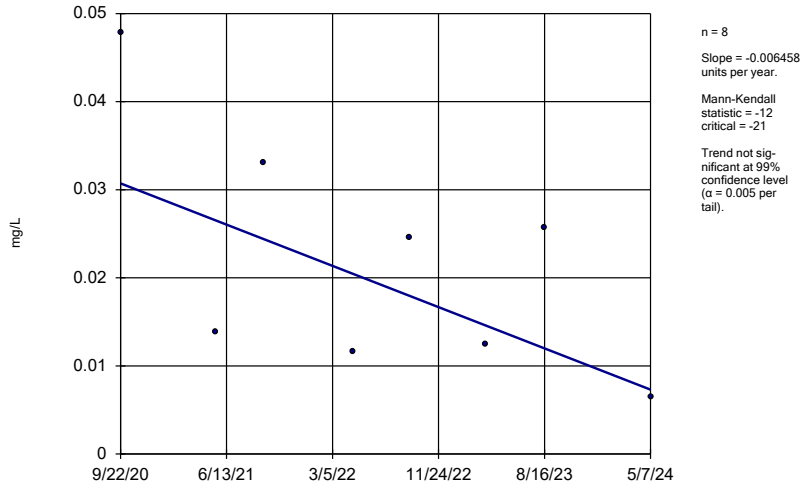
Sen's Slope Estimator

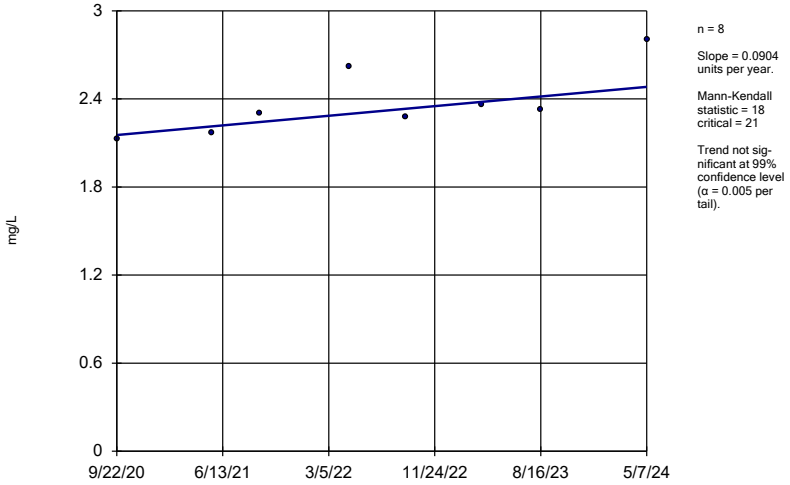
MW-90-11



Constituent: Arsenic Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

MW-20



n = 8

Slope = 0.0904 units per year.

Mann-Kendall statistic = 18
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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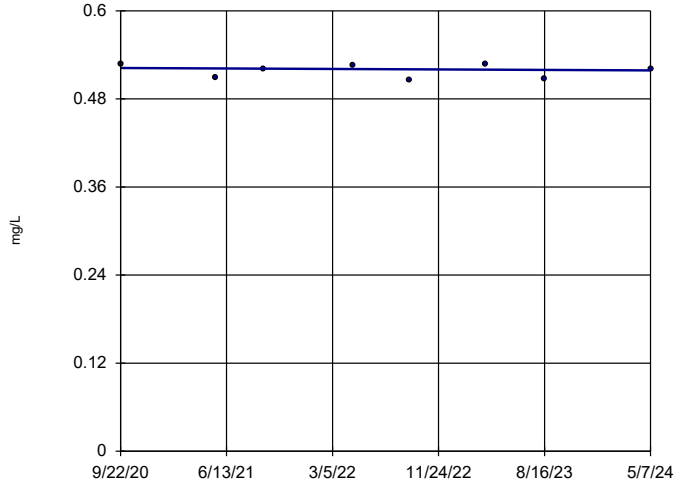
Sen's Slope Estimator

MW-24



n = 8

Slope = -0.0008511 units per year.

Mann-Kendall statistic = -5
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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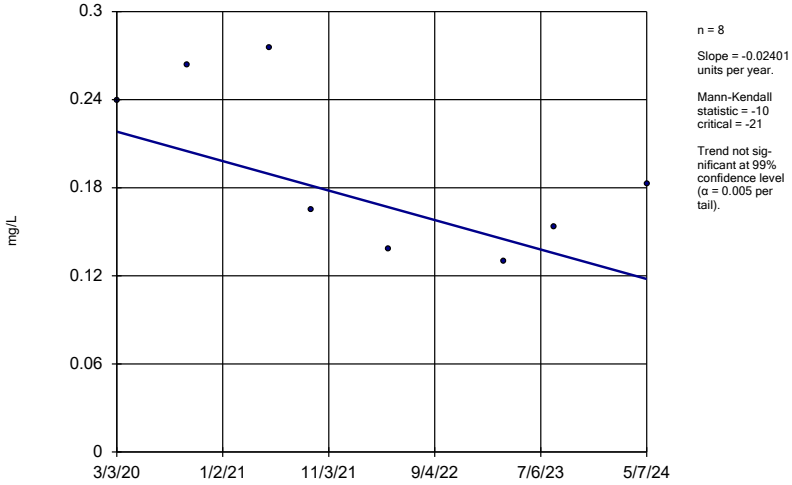
Sen's Slope Estimator

MW-32



n = 8

Slope = -0.02401 units per year.

Mann-Kendall statistic = -10
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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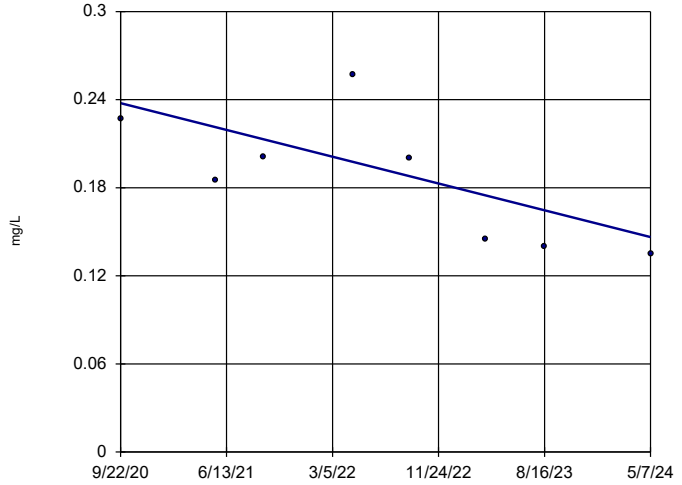
Sen's Slope Estimator

MW-33



n = 8

Slope = -0.02516 units per year.

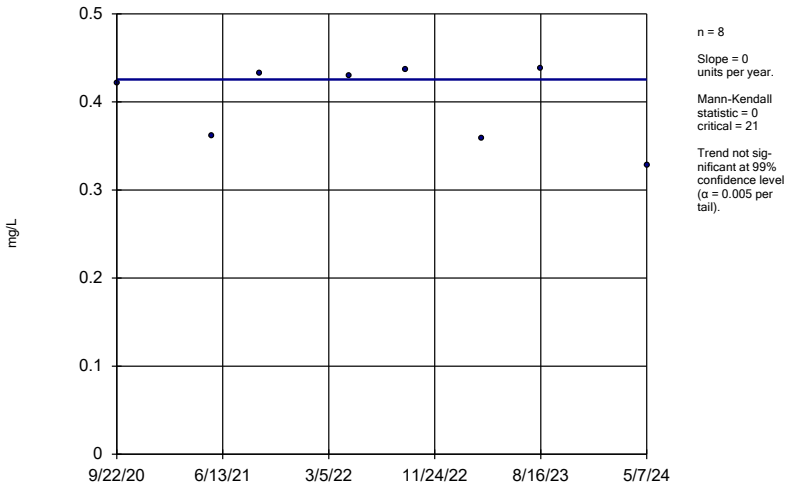
Mann-Kendall statistic = -18
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

MW-90-11



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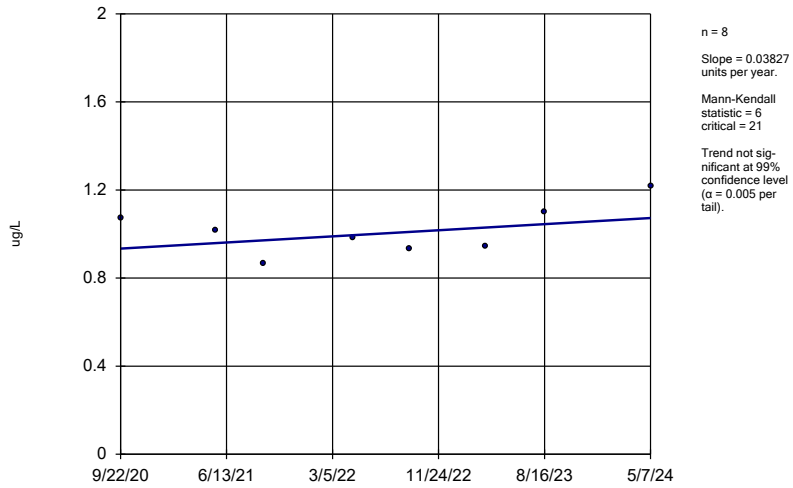
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

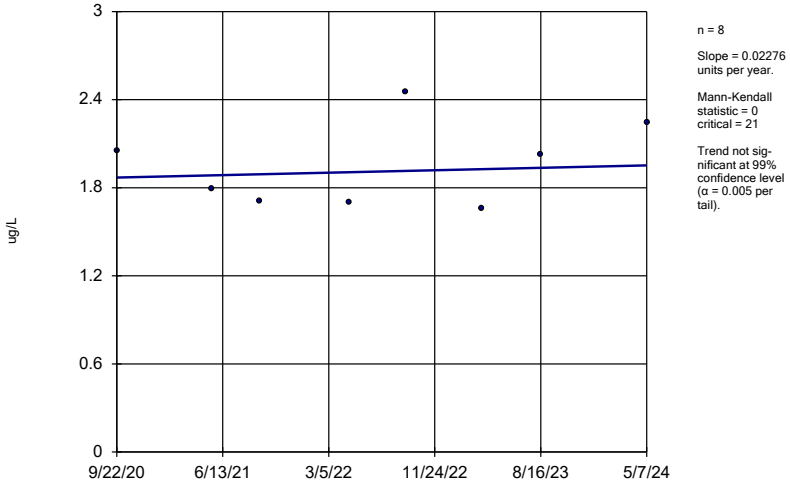
MW-20



Constituent: Benzene Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

MW-24



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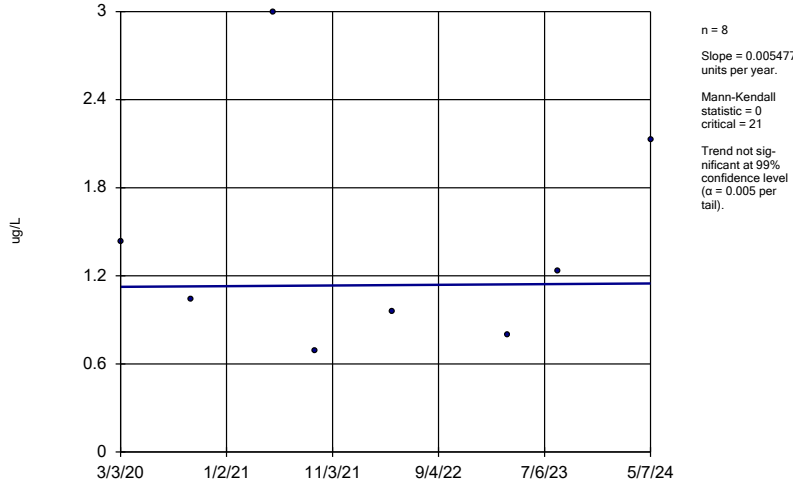
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

MW-32



Constituent: Benzene Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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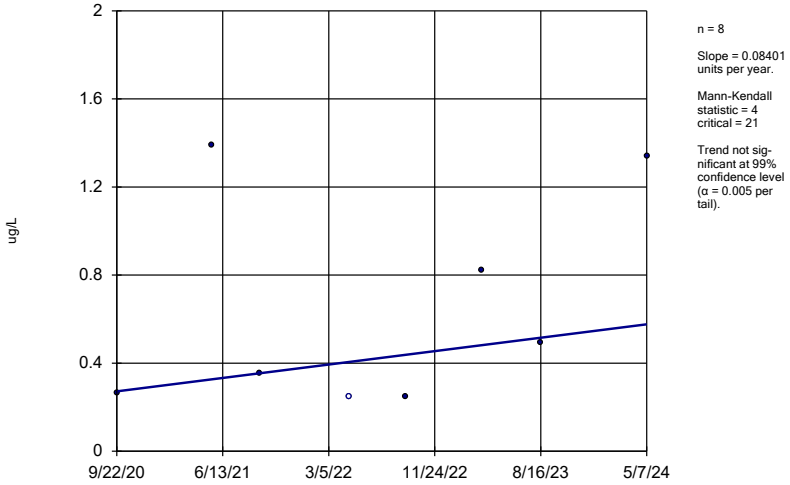
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33



n = 8

Slope = 0.08401 units per year.

Mann-Kendall statistic = 4
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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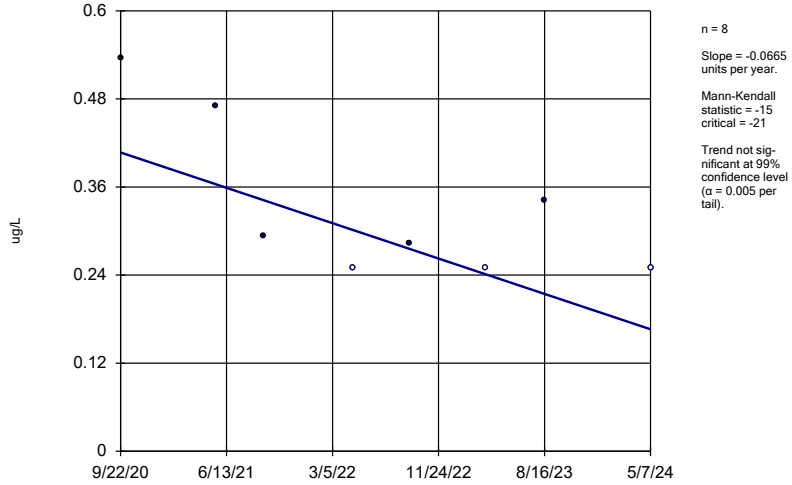
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-90-11



n = 8

Slope = -0.0665 units per year.

Mann-Kendall statistic = -15
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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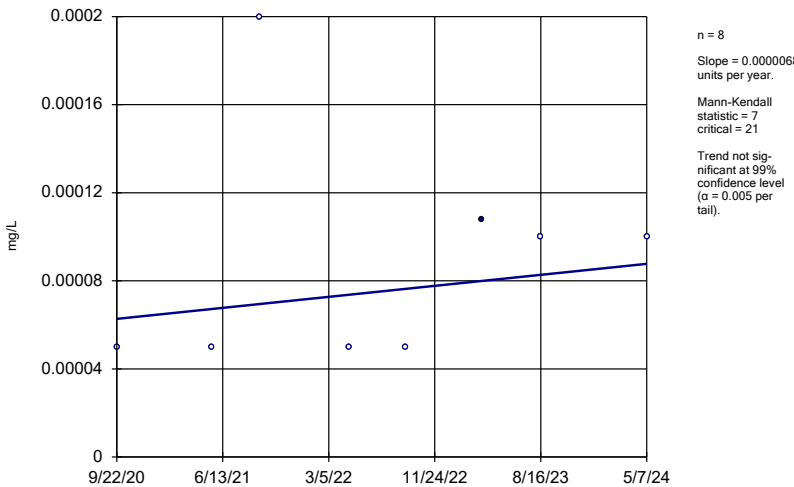
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-20



n = 8

Slope = 0.000006897 units per year.

Mann-Kendall statistic = 7
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 6/25/2024 5:38 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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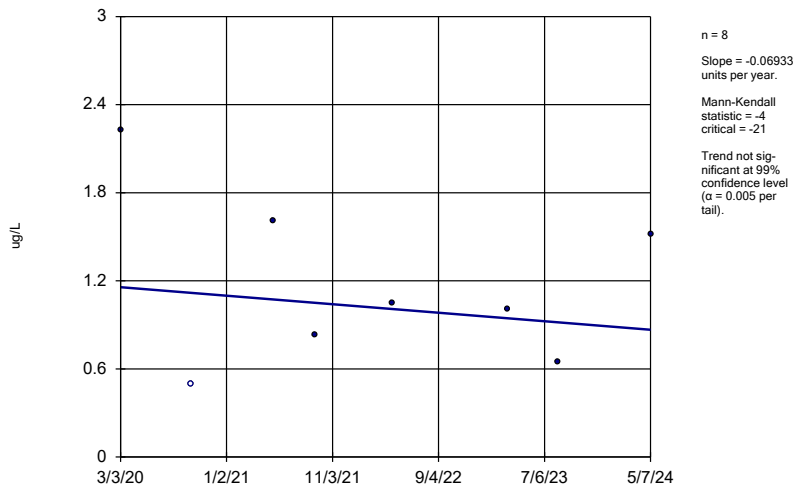
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-32



n = 8

Slope = -0.06933 units per year.

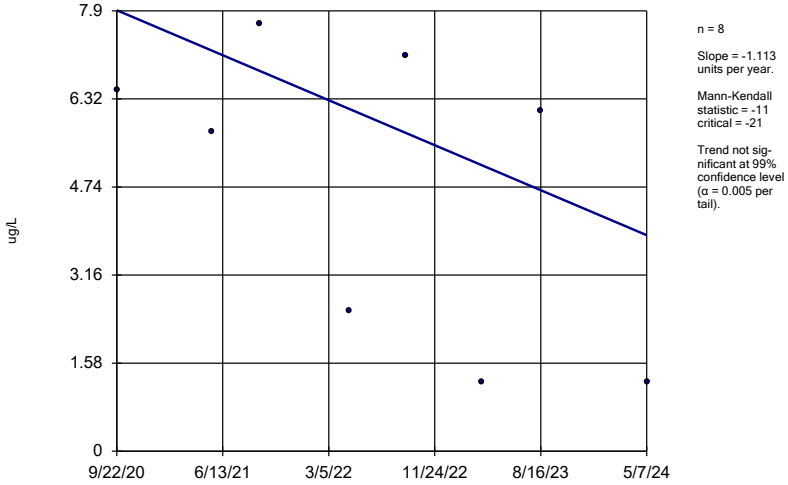
Mann-Kendall statistic = -4
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chlorobenzene Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

MW-90-11

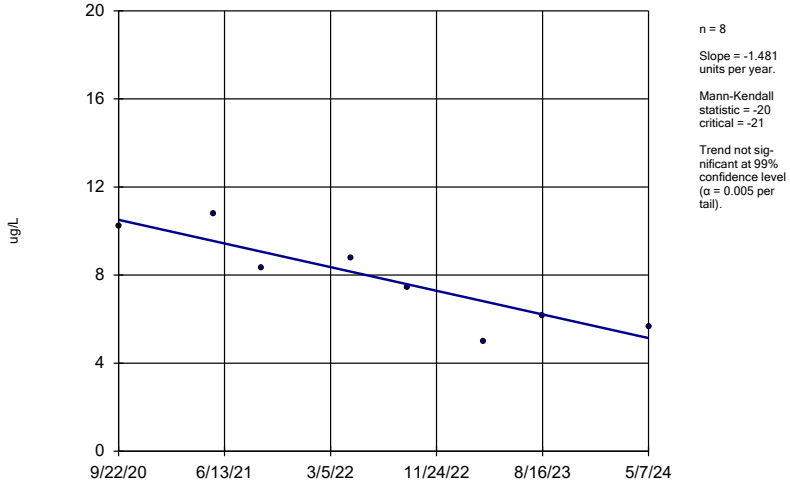


Constituent: Chlorobenzene Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-20

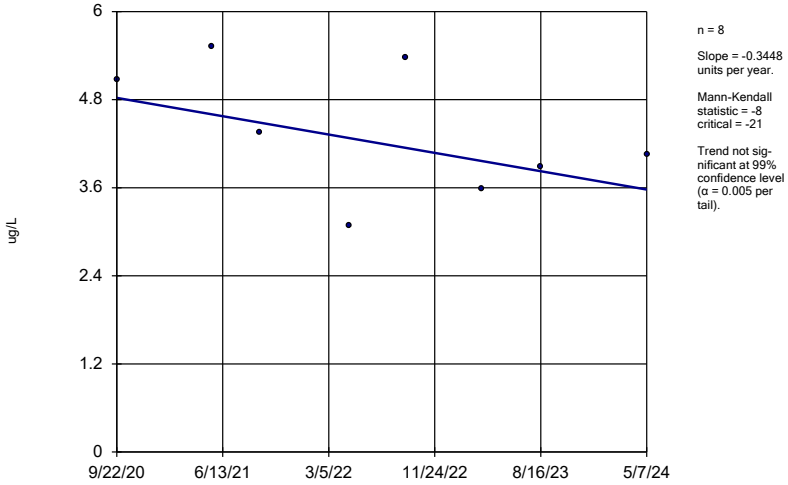


Constituent: Chloroethane Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24

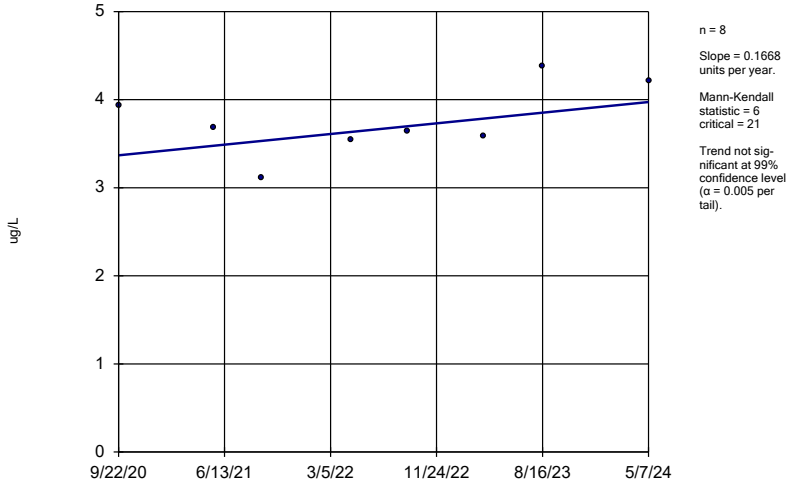


Constituent: Chloroethane Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

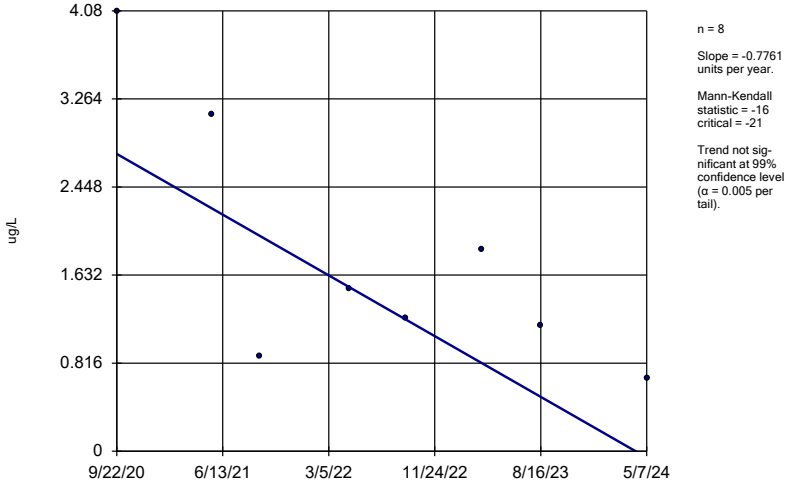
MW-20



Constituent: cis-1,2-Dichloroethene Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

MW-24



n = 8

Slope = -0.7761 units per year.

Mann-Kendall statistic = -16
critical = -21

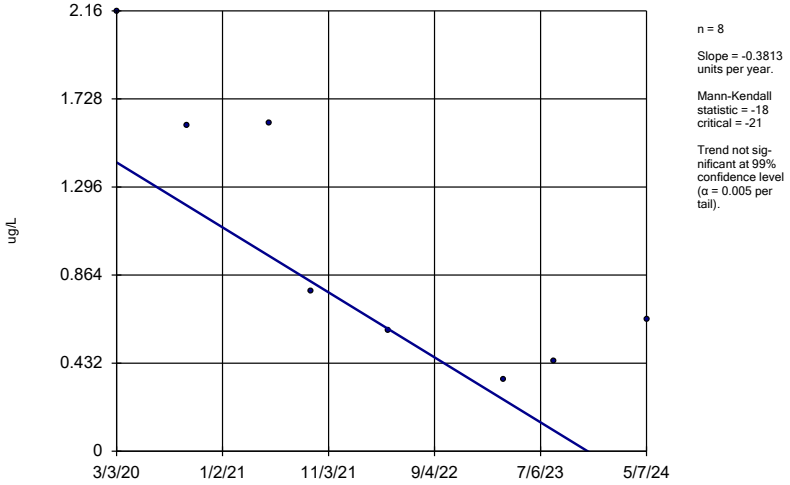
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-32



n = 8

Slope = -0.3813 units per year.

Mann-Kendall statistic = -18
critical = -21

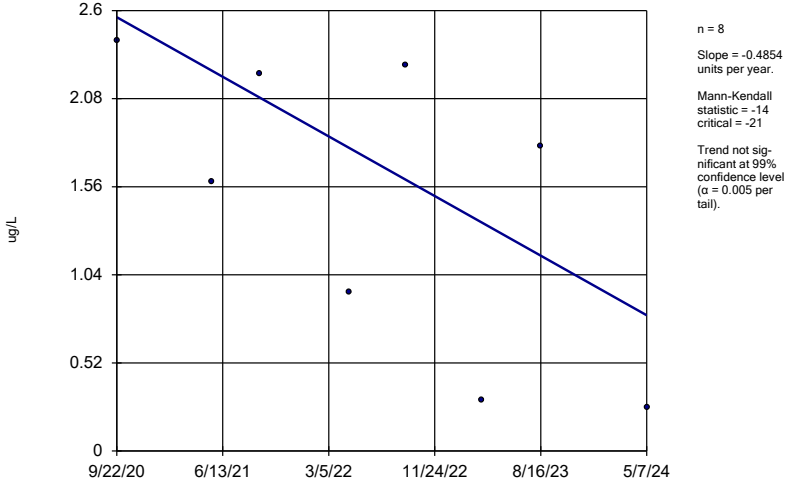
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-90-11



n = 8

Slope = -0.4854 units per year.

Mann-Kendall statistic = -14
critical = -21

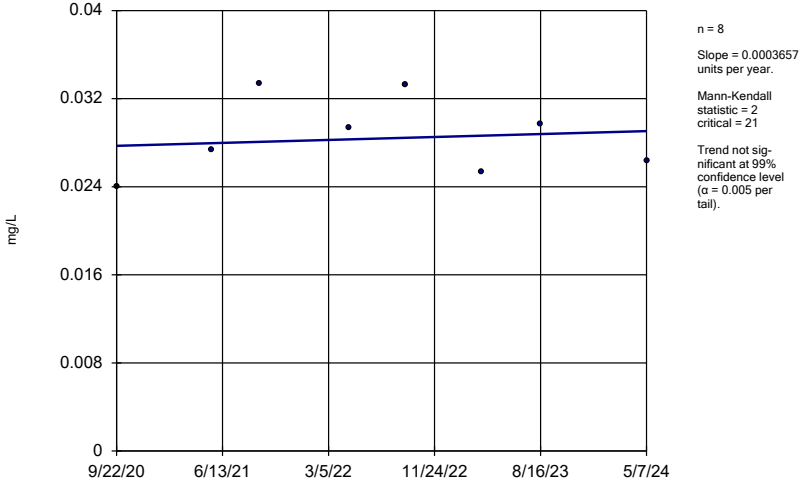
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-20



n = 8

Slope = 0.0003657 units per year.

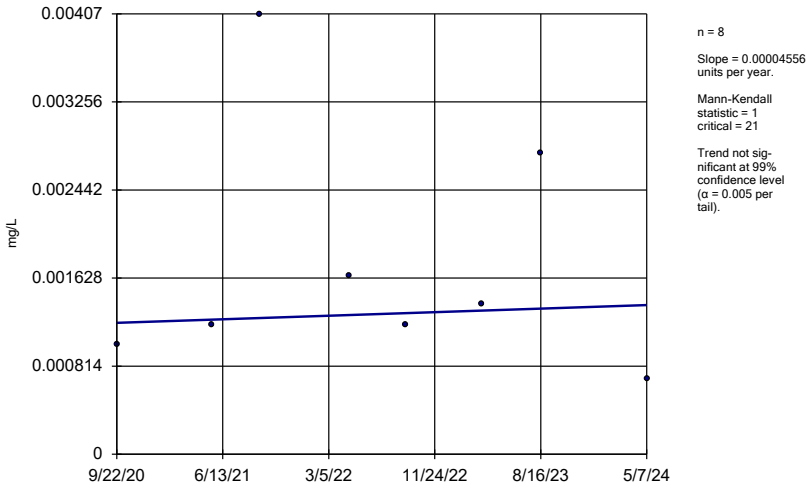
Mann-Kendall statistic = 2
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

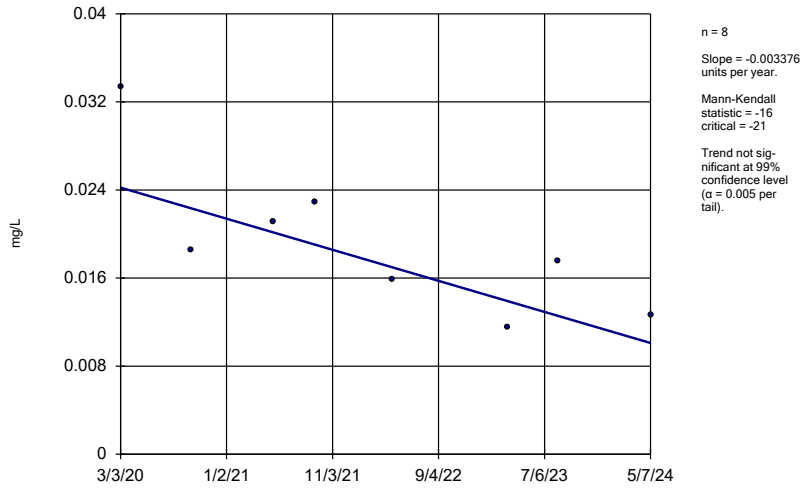
MW-24



Constituent: Cobalt Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

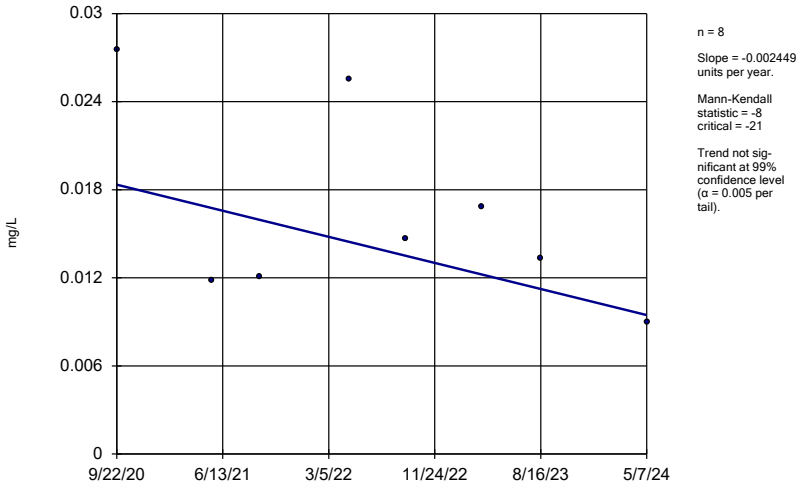
MW-32



Constituent: Cobalt Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

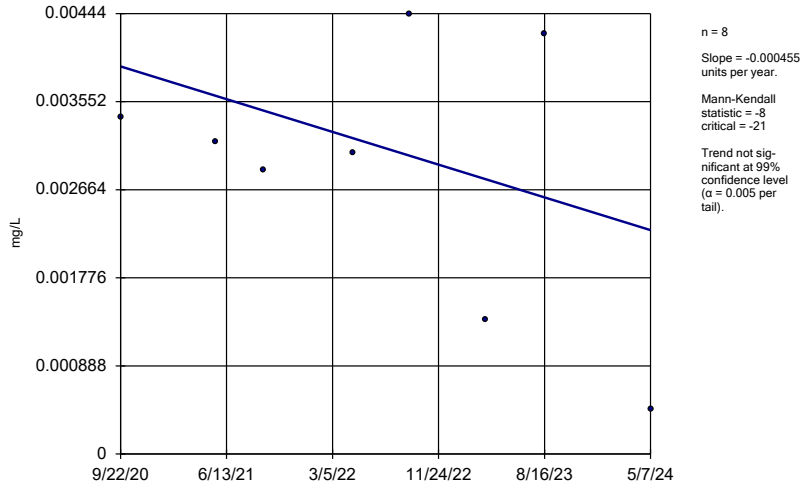
MW-33



Constituent: Cobalt Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sen's Slope Estimator

MW-90-11

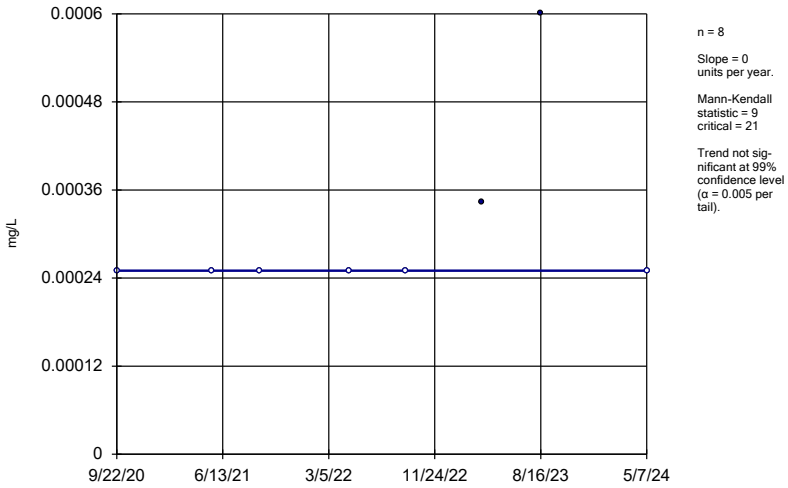


Constituent: Cobalt Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = 9
critical = 21

Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Lead Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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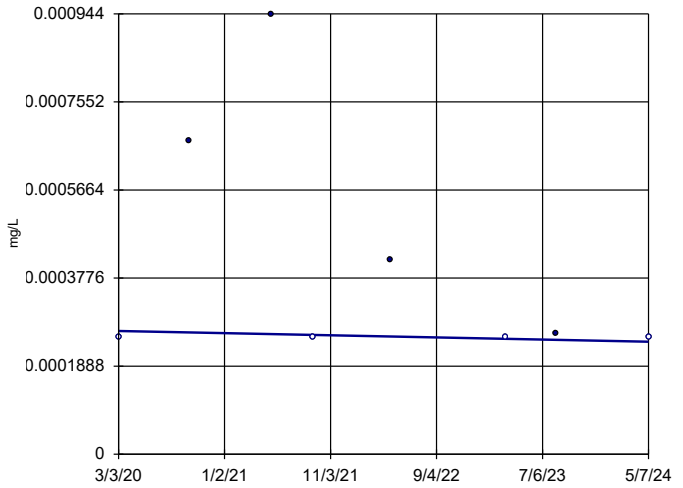
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-32



n = 8

Slope = -0.000005489
units per year.

Mann-Kendall
statistic = -6
critical = -21

Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Lead Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

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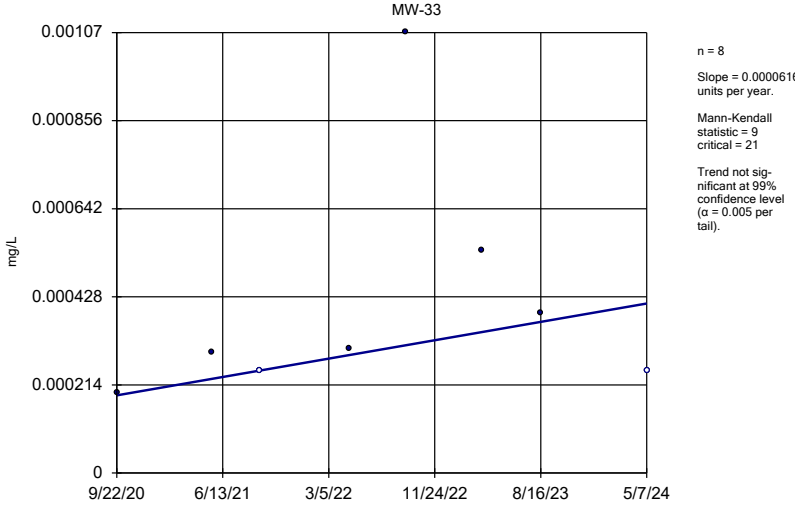
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33



n = 8

Slope = 0.0000616
units per year.

Mann-Kendall
statistic = 9
critical = 21

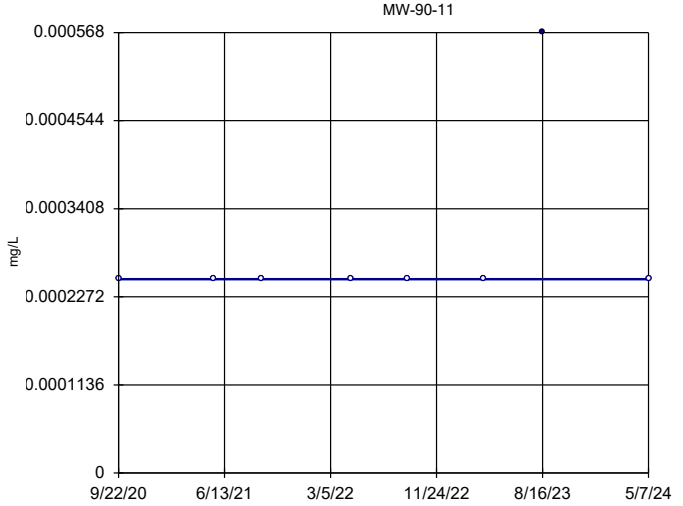
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Lead Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-90-11



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = 5
critical = 21

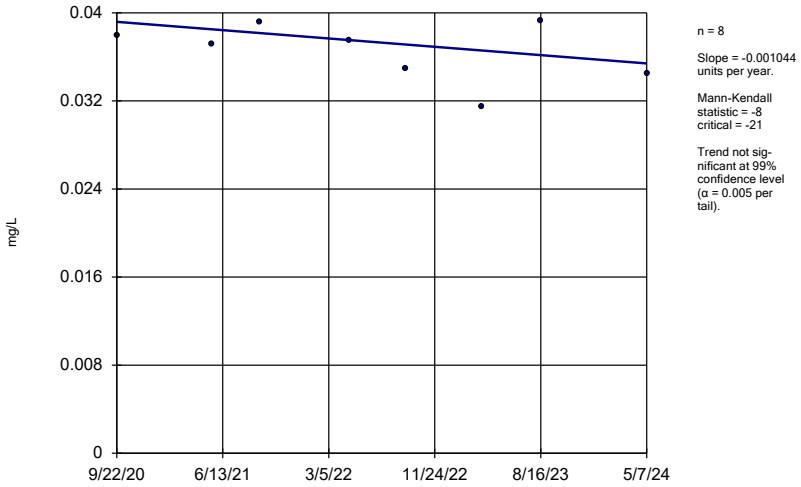
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Lead Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-20



n = 8

Slope = -0.001044 units per year.

Mann-Kendall statistic = -8
critical = -21

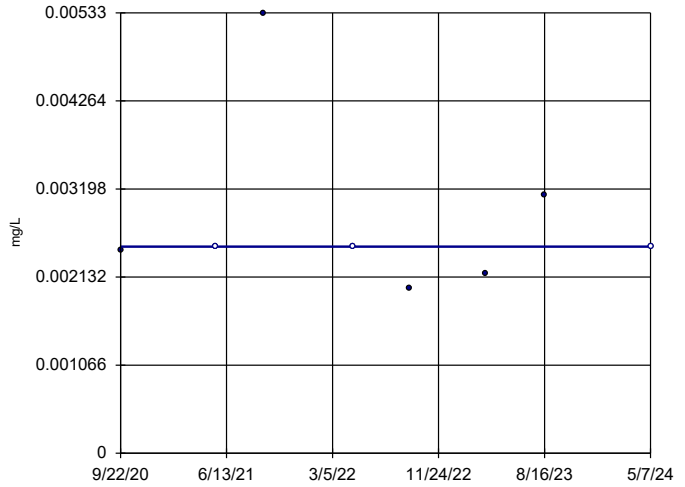
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 21

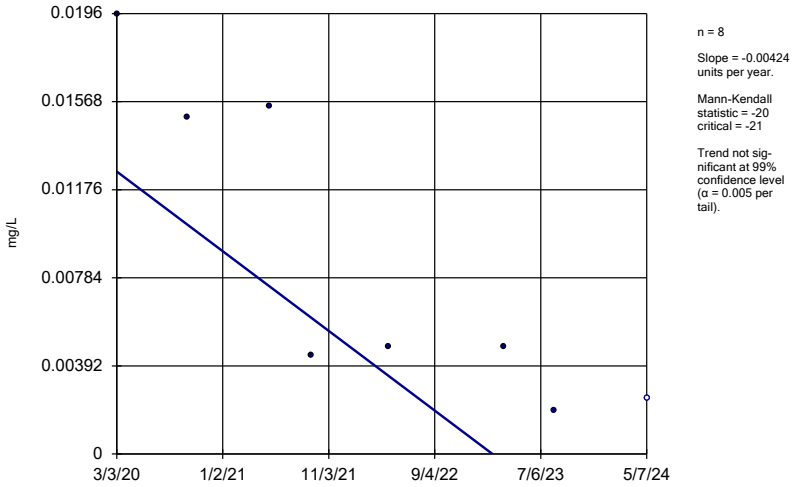
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-32



n = 8

Slope = -0.00424 units per year.

Mann-Kendall statistic = -20
critical = -21

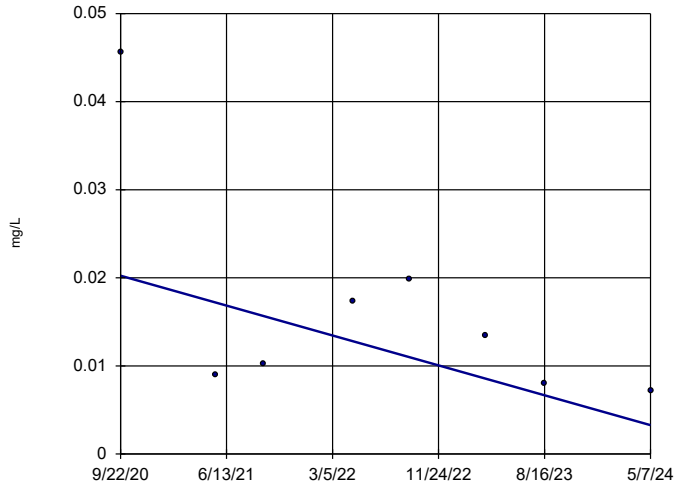
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-33



n = 8

Slope = -0.00468 units per year.

Mann-Kendall statistic = -12
critical = -21

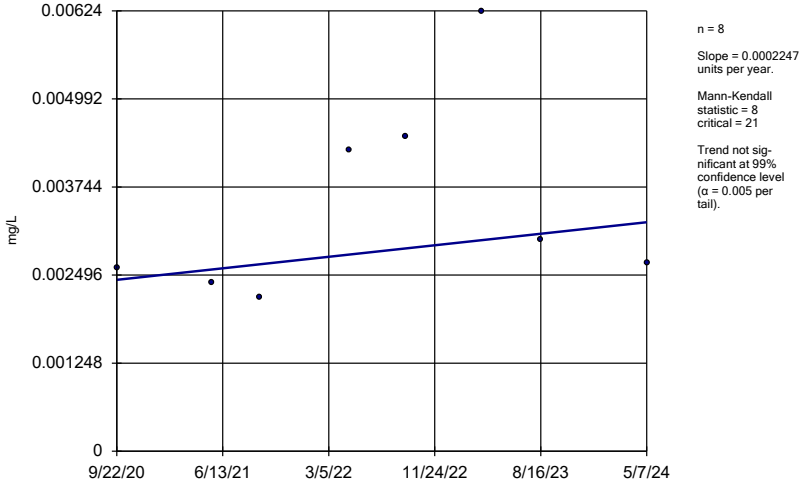
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-90-11



Constituent: Nickel Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall

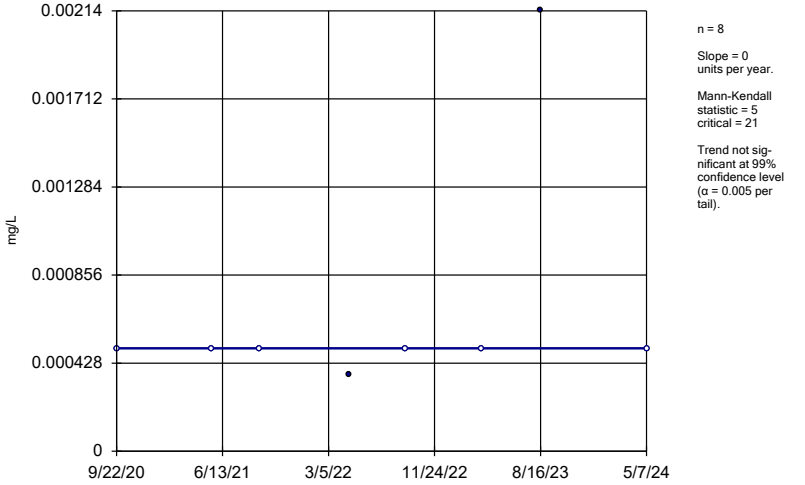
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-90-11



Constituent: Thallium Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall

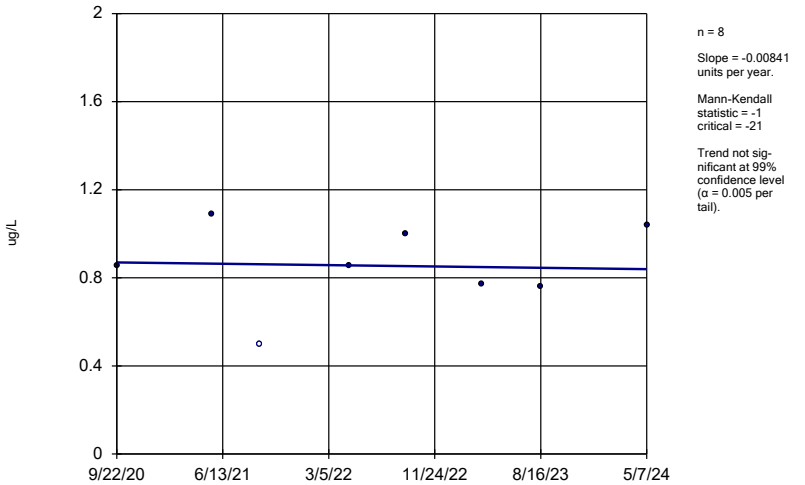
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-20



Constituent: Vinyl chloride Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall

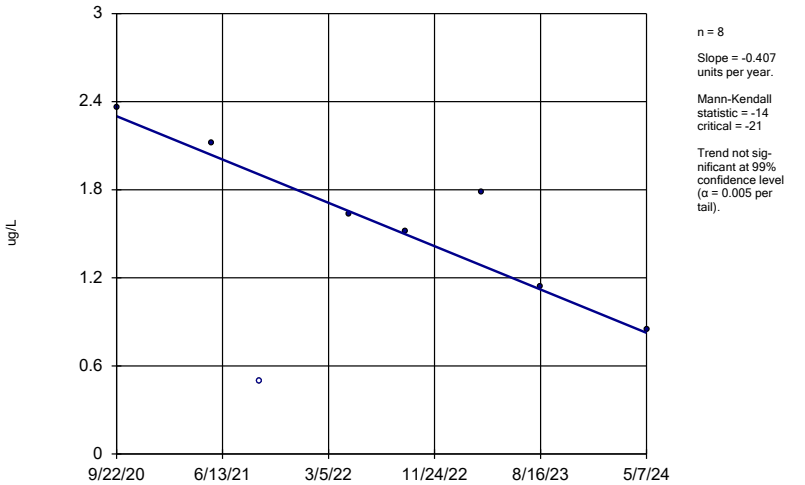
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24



Constituent: Vinyl chloride Analysis Run 6/25/2024 5:39 PM View: 2024SSN - Mann Kendall

Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN Source

Confidence Interval Summary Table

Water Table Aquifer

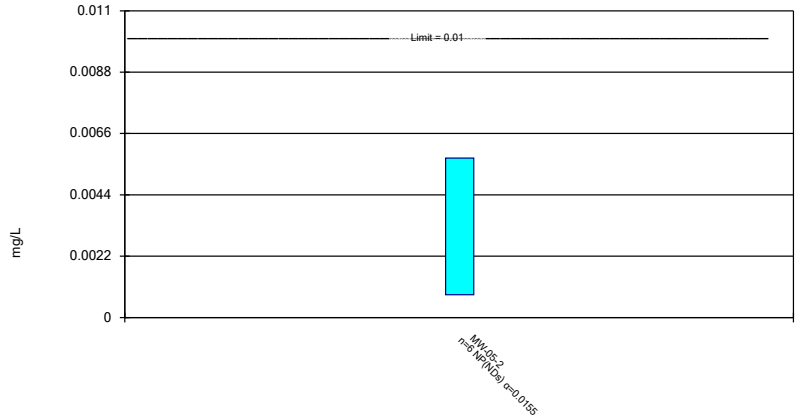
Confidence Interval

Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC Printed 6/27/2024, 3:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MW-05-2	0.00572	0.000818	0.01	No	6	66.67	No	0.0155	NP (NDs)
Barium (mg/L)	MW-19	0.1909	0.1634	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-29	0.1523	0.1252	2	No	4	0	No	0.01	Param.
Cadmium (mg/L)	MW-19	0.0002604	0.0001033	0.005	No	8	0	No	0.01	Param.
Chromium (mg/L)	MW-29	0.009174	0	0.1	No	4	0	No	0.01	Param.
Cobalt (mg/L)	MW-05-2	0.000962	0.000056	0.0021	No	8	50	No	0.004	NP (normality)
Cobalt (mg/L)	MW-19	0.00188	0.000099	0.0021	No	8	37.5	No	0.004	NP (normality)
Lead (mg/L)	MW-19	0.0009081	0.00036	0.015	No	8	50	No	0.01	Param.
Nickel (mg/L)	MW-19	0.009509	0.002426	0.1	No	8	12.5	No	0.01	Param.
Silver (mg/L)	MW-19	0.00128	0.0005	0.1	No	8	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	MW-19	0.00186	0.000414	0.002	No	8	75	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

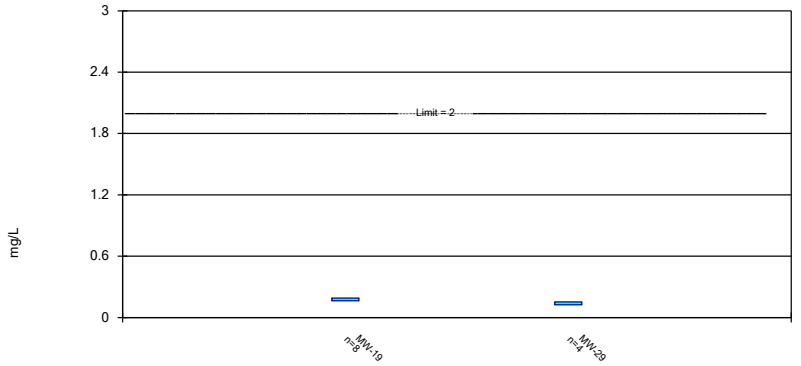
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 6/27/2024 3:15 PM View: 2024SSN - Confidence Interval - AM&AZPO
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC

Parametric Confidence Interval

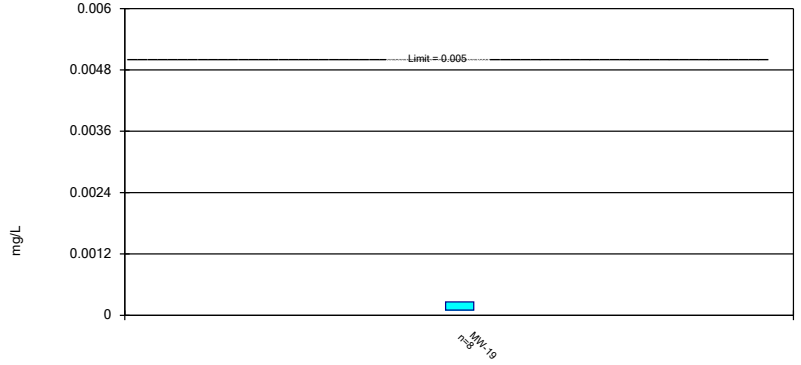
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 6/27/2024 3:15 PM View: 2024SSN - Confidence Interval - AM&AZPOC
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC

Parametric Confidence Interval

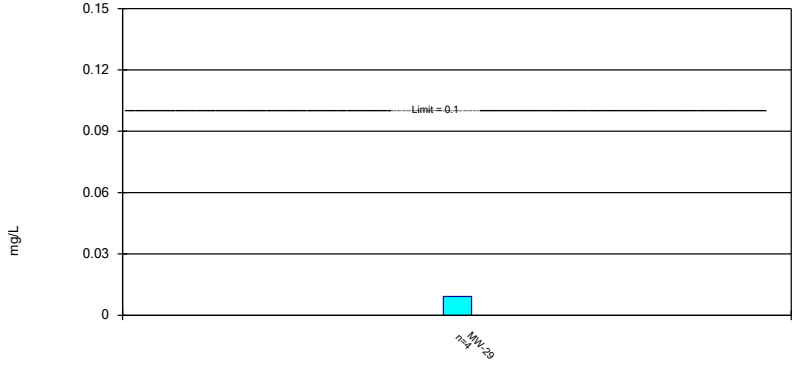
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cadmium Analysis Run 6/27/2024 3:15 PM View: 2024SSN - Confidence Interval - AM&AZP
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC

Parametric Confidence Interval

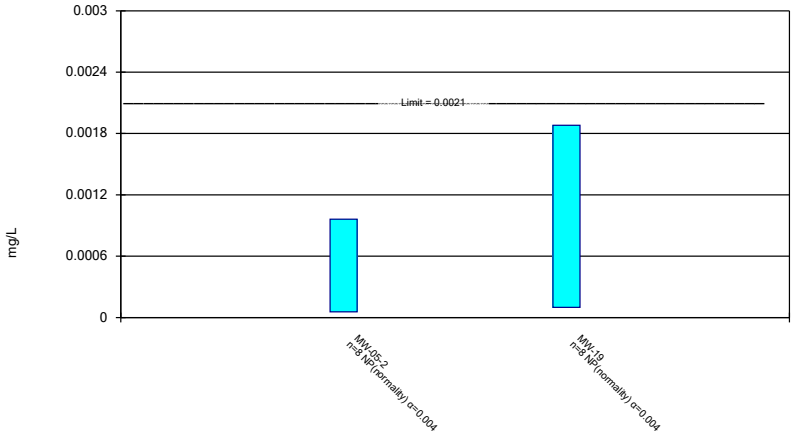
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Chromium Analysis Run 6/27/2024 3:15 PM View: 2024SSN - Confidence Interval - AM&AZP
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Cobalt Analysis Run 6/27/2024 3:15 PM View: 2024SSN - Confidence Interval - AM&AZPOC
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC

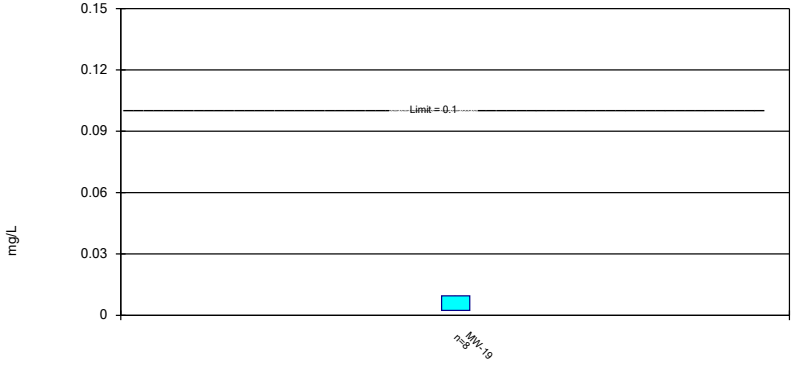
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.

Constituent: Lead Analysis Run 6/27/2024 3:15 PM View: 2024SSN - Confidence Interval - AM&AZPOC
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC

Parametric Confidence Interval

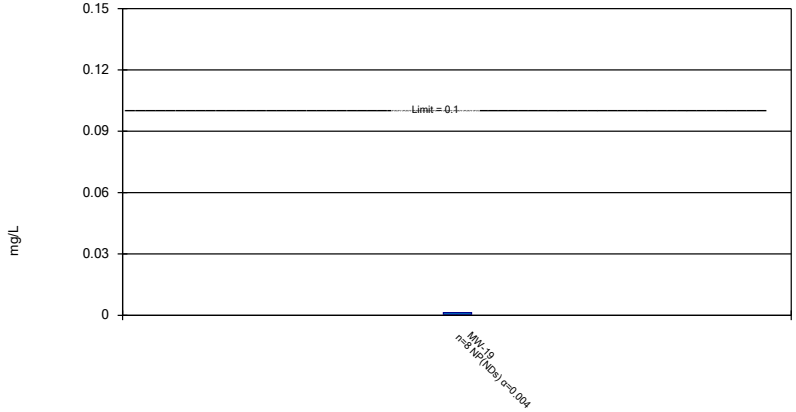
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



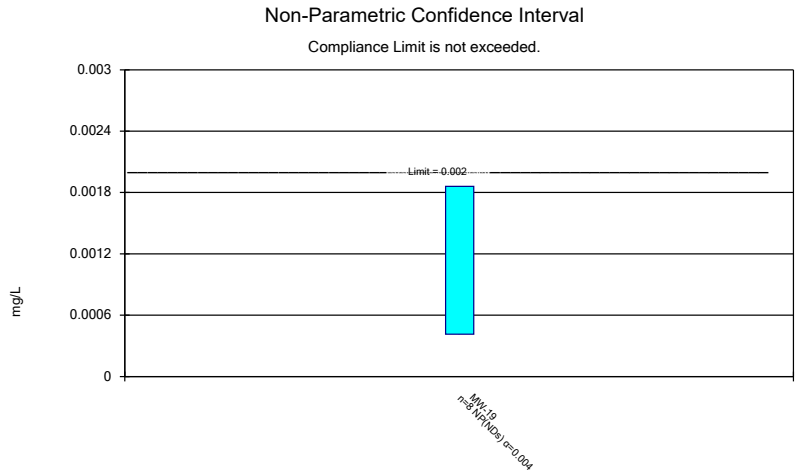
Constituent: Nickel Analysis Run 6/27/2024 3:15 PM View: 2024SSN - Confidence Interval - AM&AZPOC
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Silver Analysis Run 6/27/2024 3:15 PM View: 2024SSN - Confidence Interval - AM&AZPOC
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC



Constituent: Thallium Analysis Run 6/27/2024 3:15 PM View: 2024SSN - Confidence Interval - AM&AZPO
Clinton County SLF Client: SCS Engineers Data: CCASW ES-AM 202SSN AM&AZPOC

Attachment B

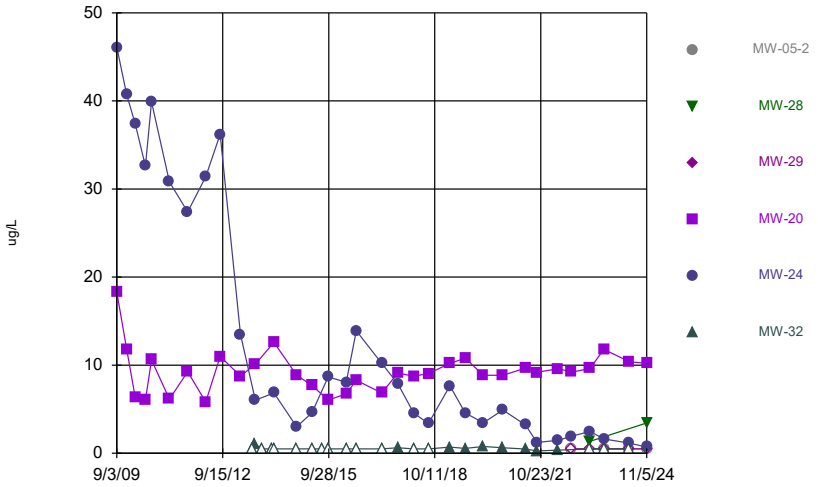
2nd 2024 Statistical Evaluation Output

Time Series Plot

Water Table Aquifer

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

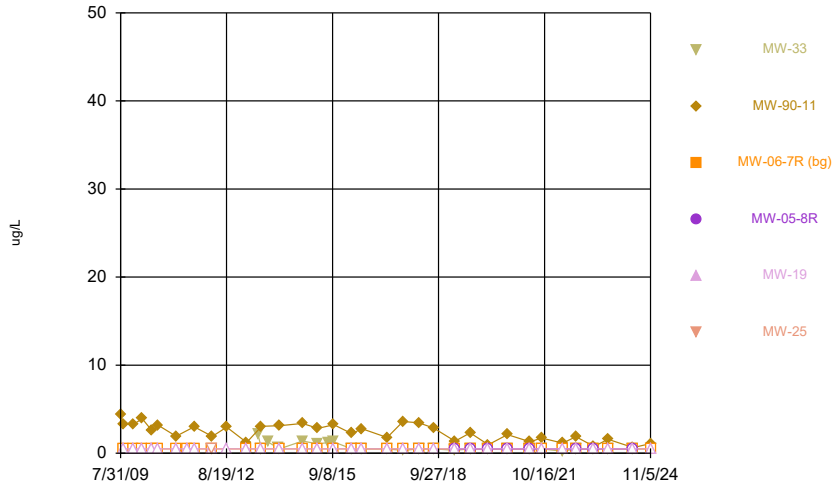
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

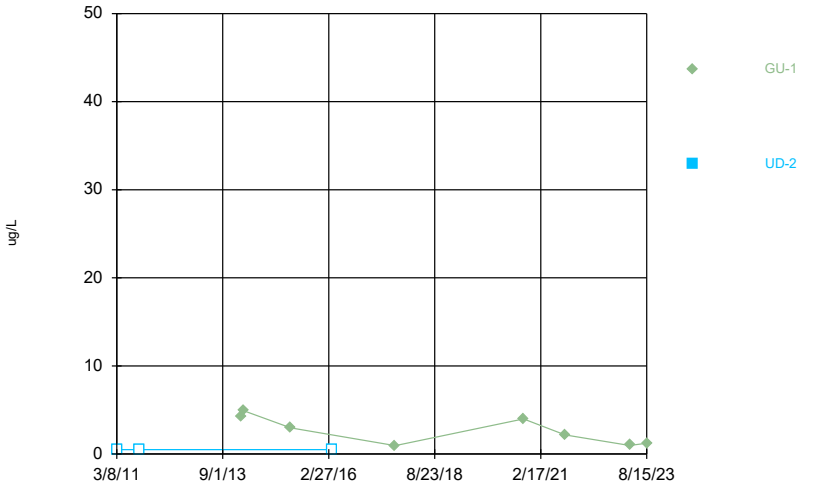
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

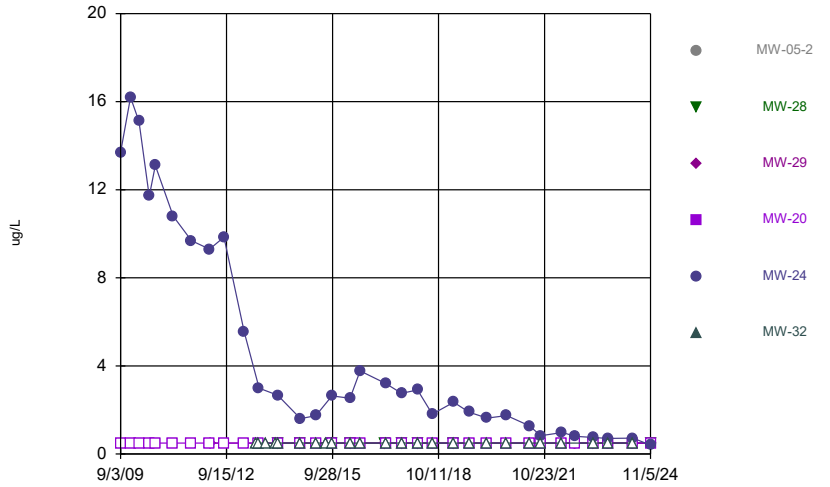
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

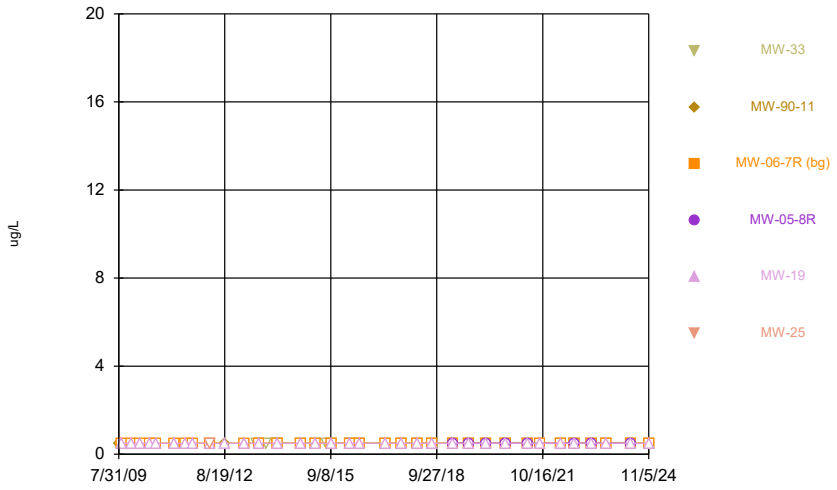
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

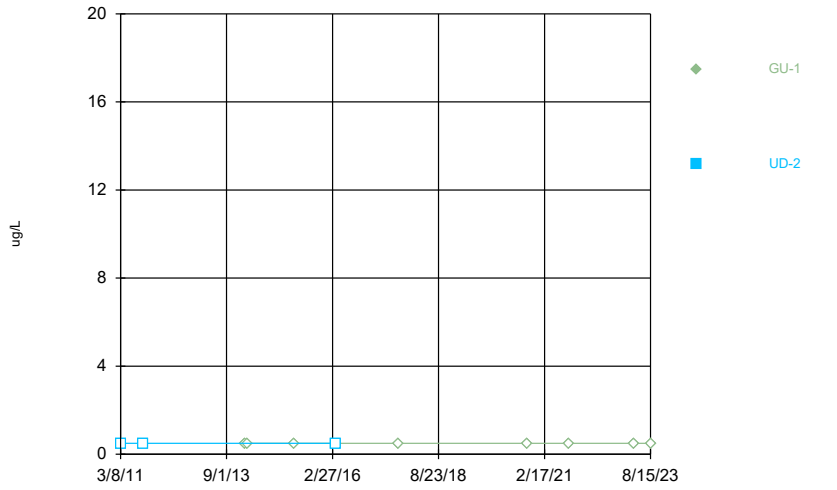
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

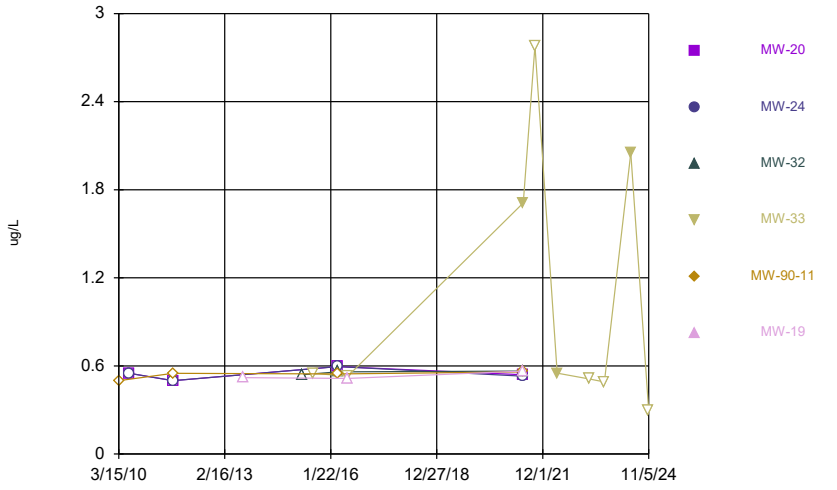
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

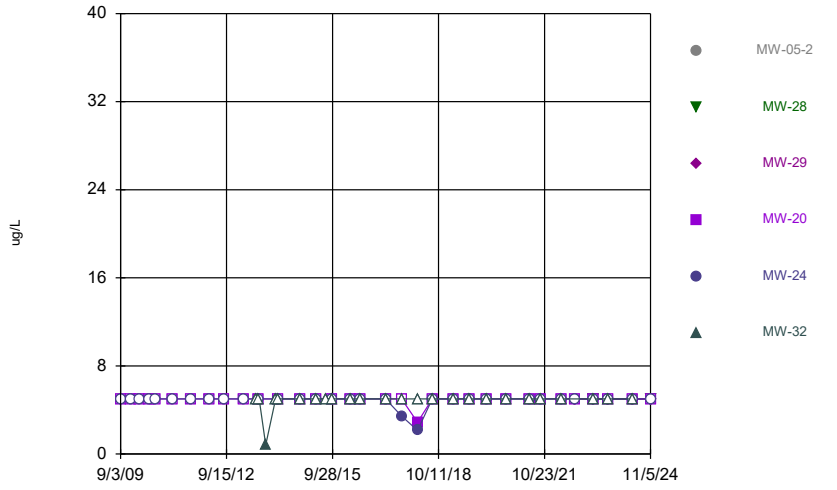
Time Series



Constituent: 2,4-D [2C] Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 2-Butanone Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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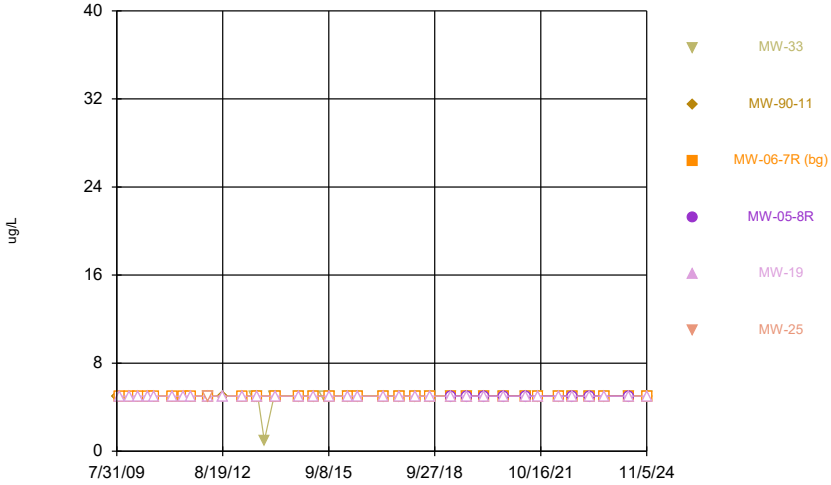
Hollow symbols indicate censored values.

Time Series



Constituent: 2-Butanone Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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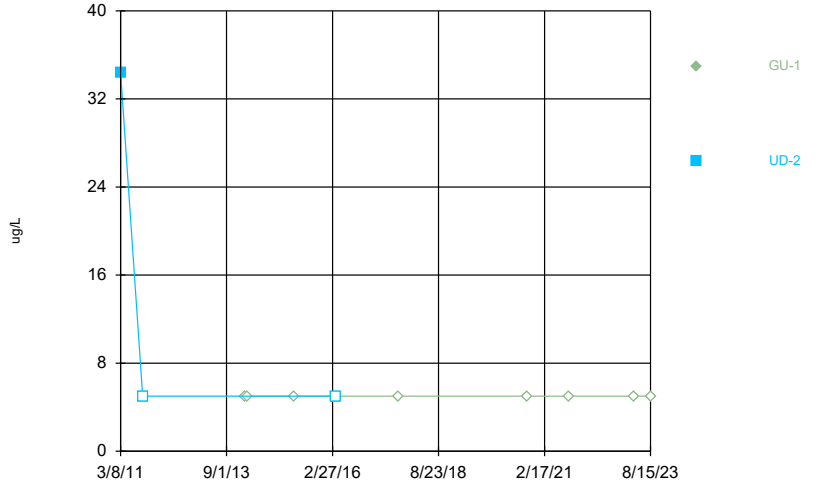
Hollow symbols indicate censored values.

Time Series



Constituent: 2-Butanone Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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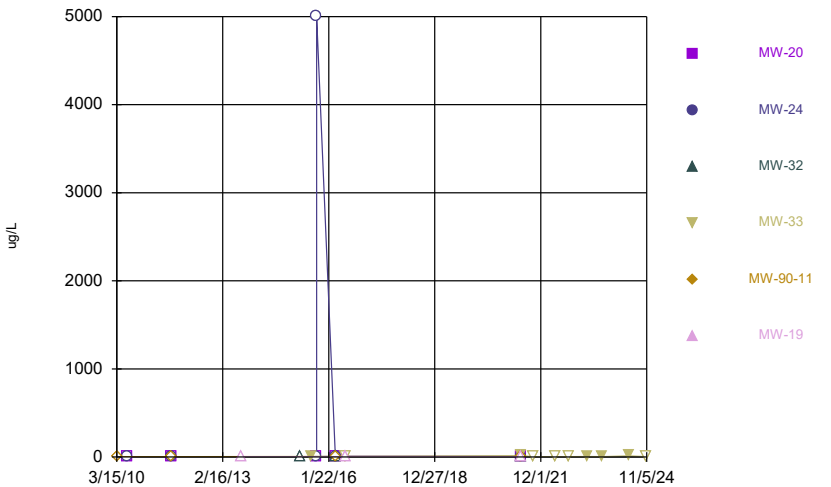
Hollow symbols indicate censored values.

Time Series



Constituent: 3/4-Methylphenol Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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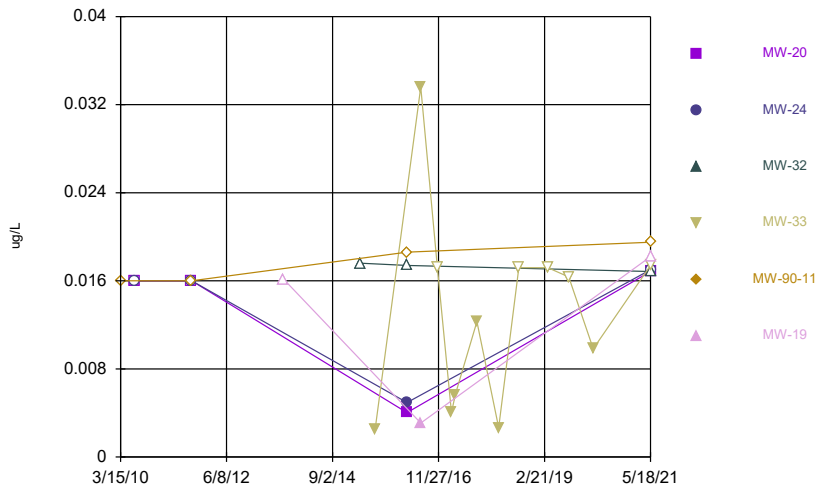
Hollow symbols indicate censored values.

Time Series



Constituent: 4,4`-DDD Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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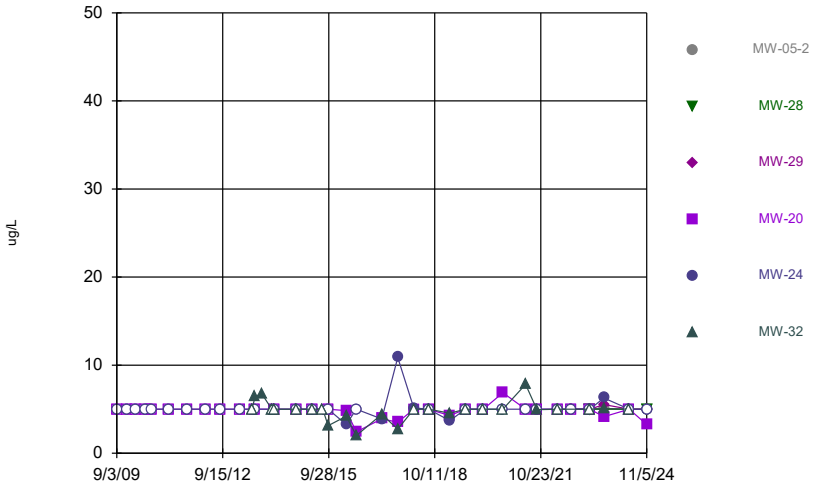
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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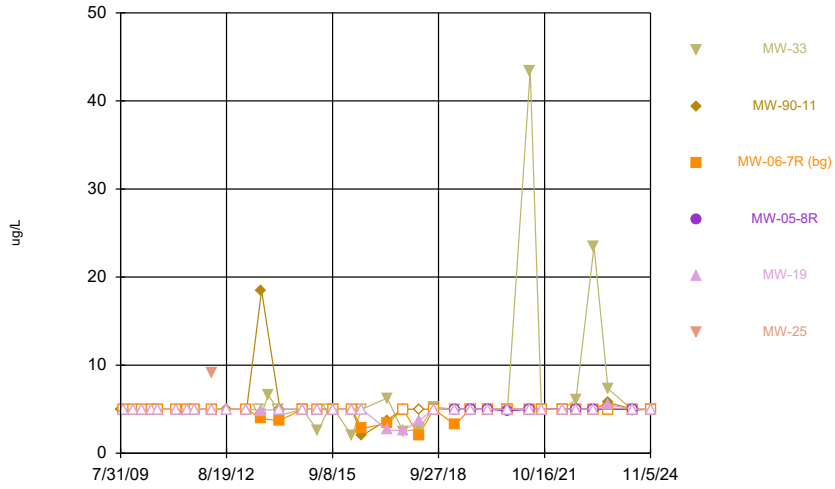
Hollow symbols indicate censored values.

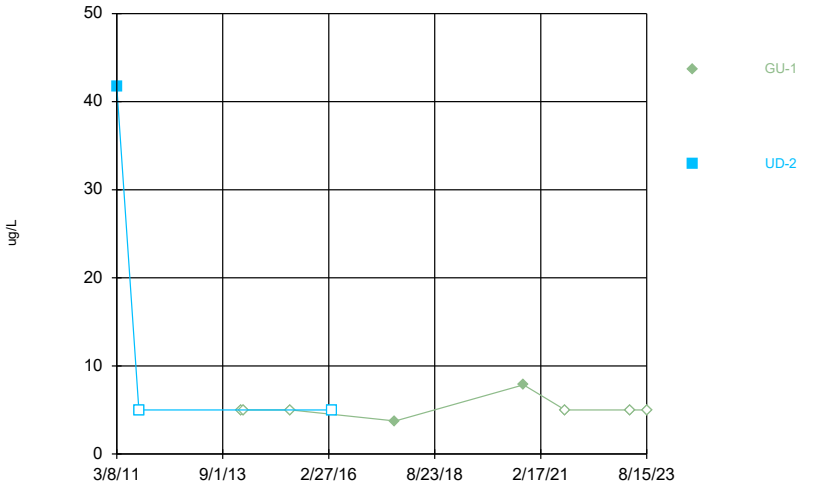
Time Series



Constituent: Acetone Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

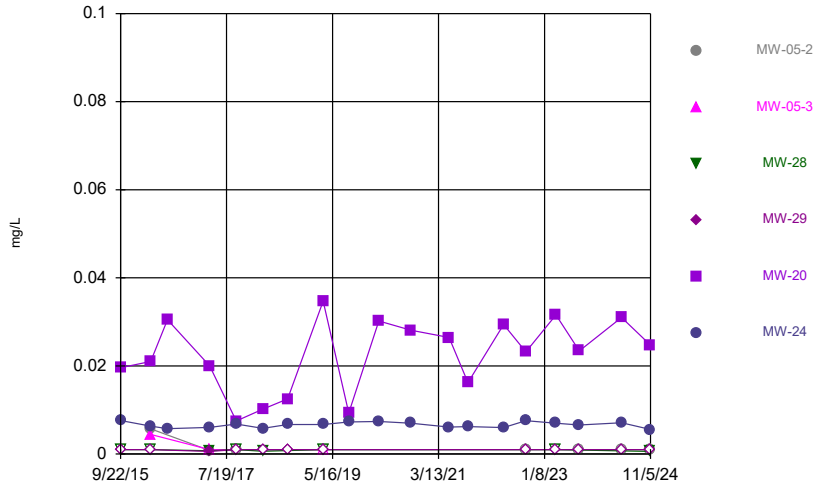
Time Series



Constituent: Acetone Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

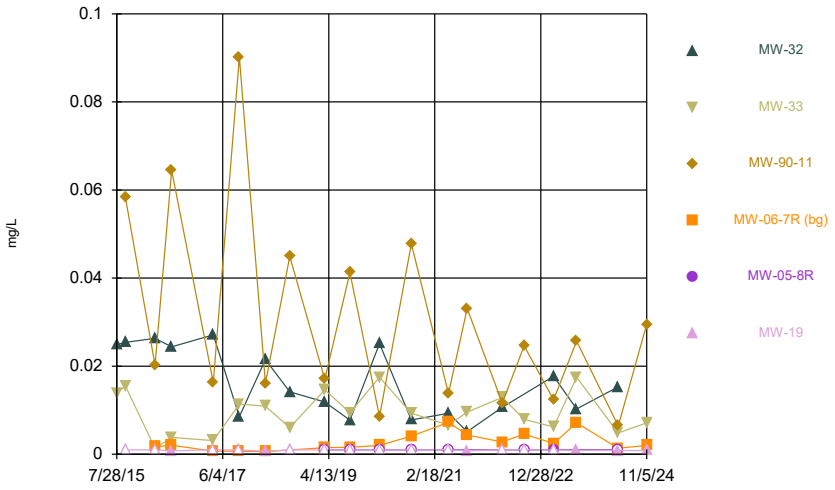
Time Series



Constituent: Arsenic Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

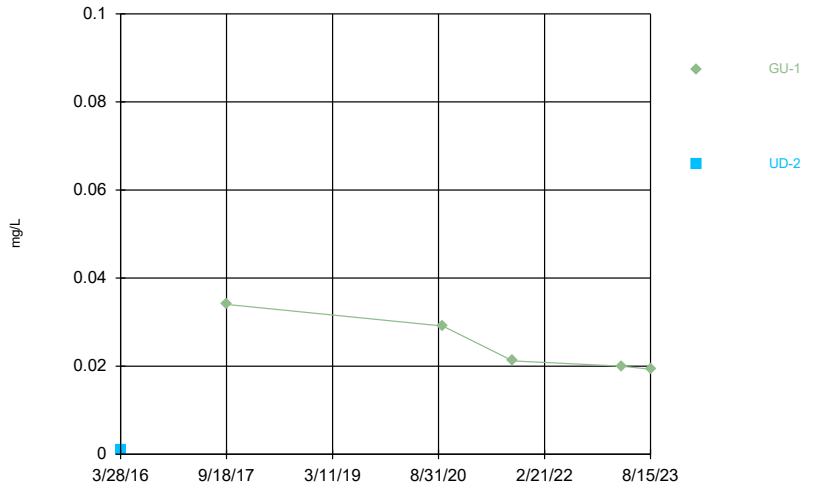
Time Series



Constituent: Arsenic Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

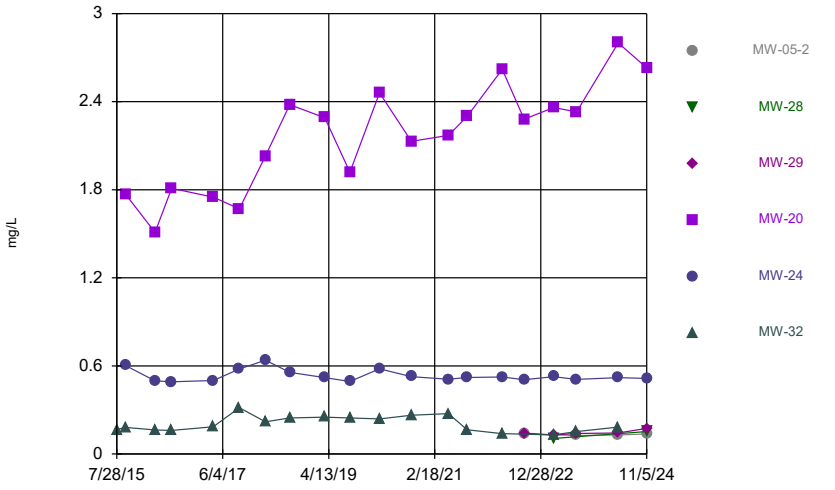
Time Series



Constituent: Arsenic Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Time Series



Constituent: Barium Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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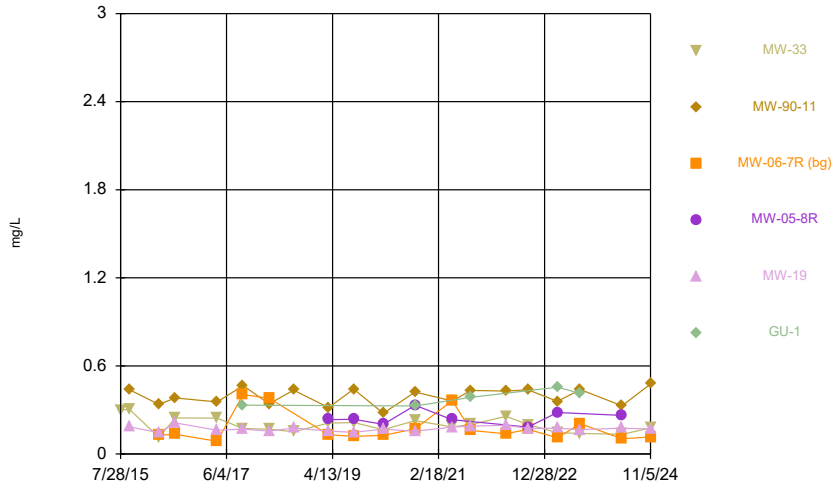
Time Series



Constituent: Barium Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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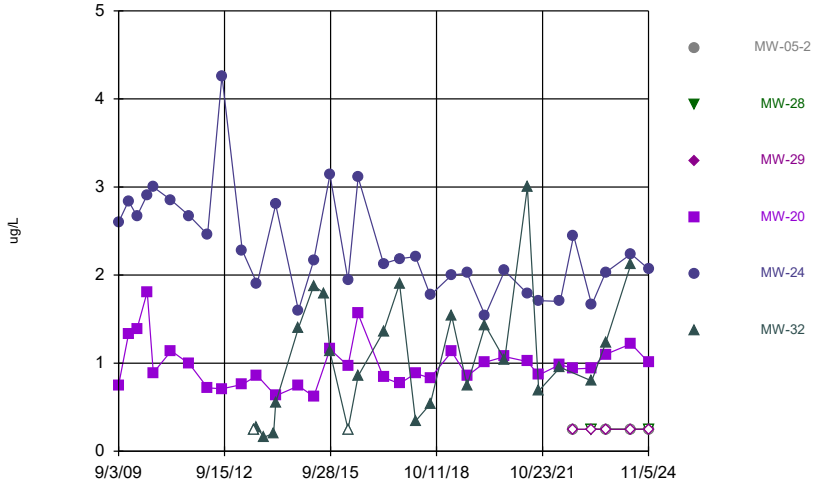
Time Series

Constituent: Barium Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Benzene Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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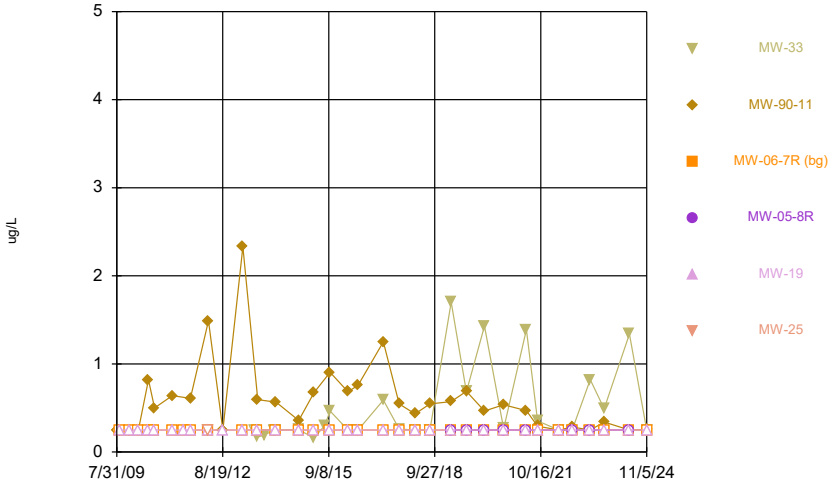
Hollow symbols indicate censored values.

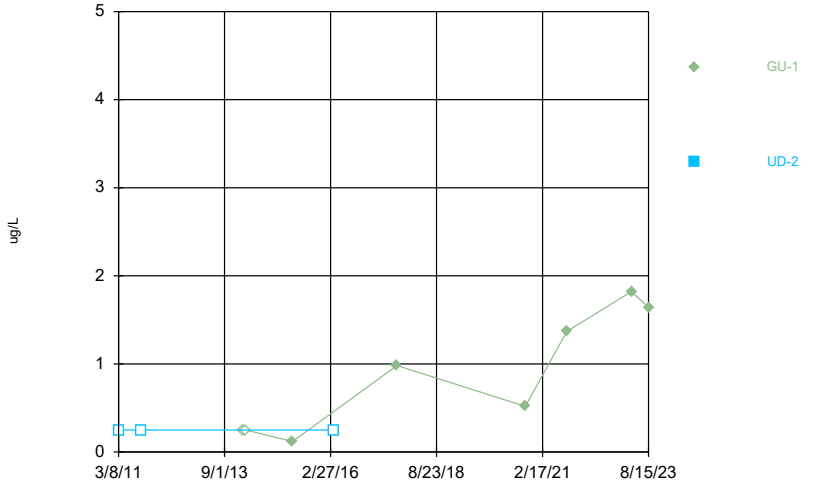
Time Series



Constituent: Benzene Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Benzene Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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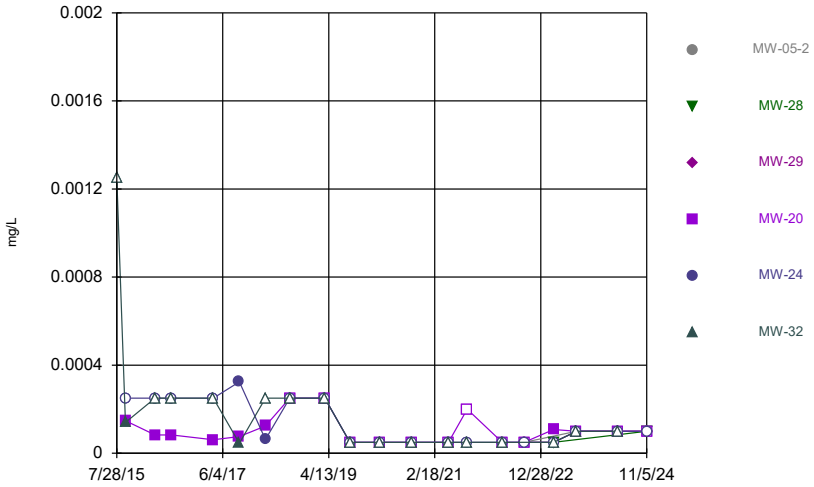
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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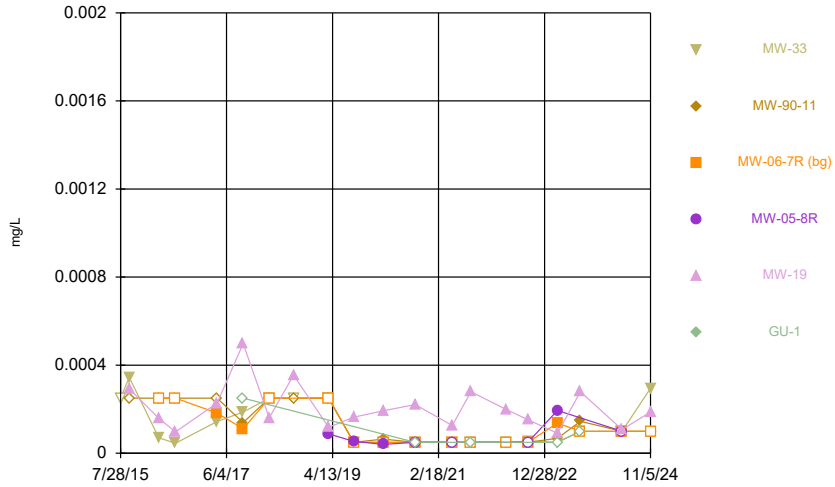
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 12/4/2024 2:47 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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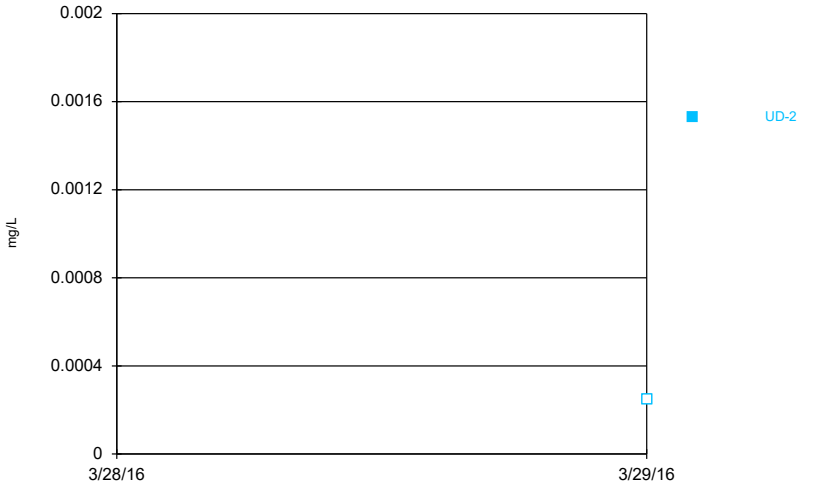
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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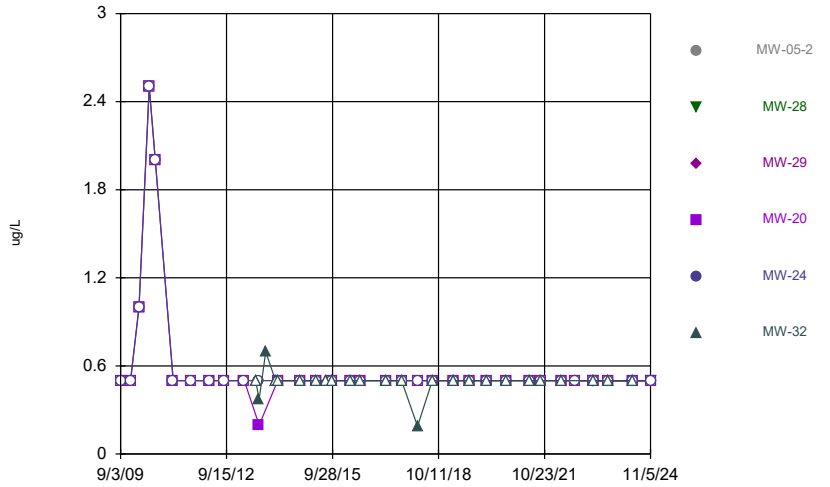
Hollow symbols indicate censored values.

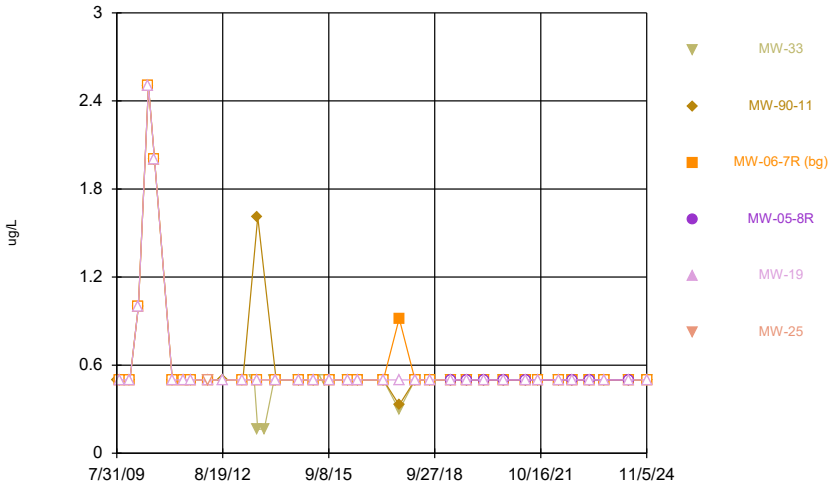
Time Series



Constituent: Carbon disulfide Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

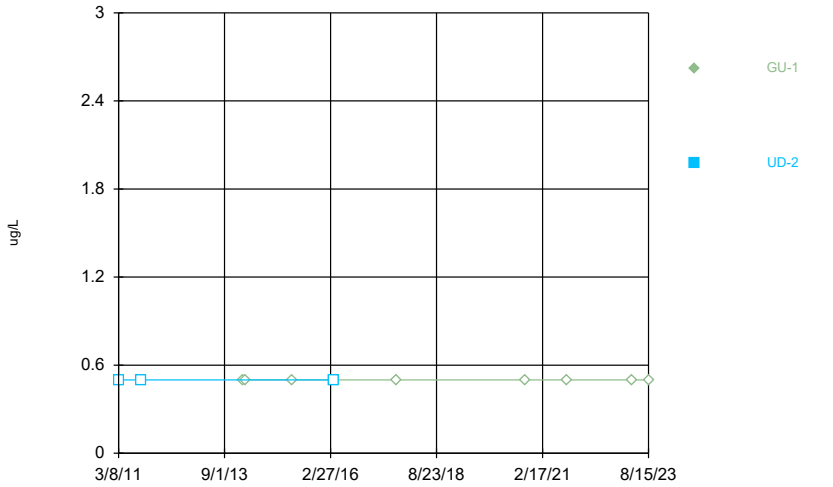
Time Series



Constituent: Carbon disulfide Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Carbon disulfide Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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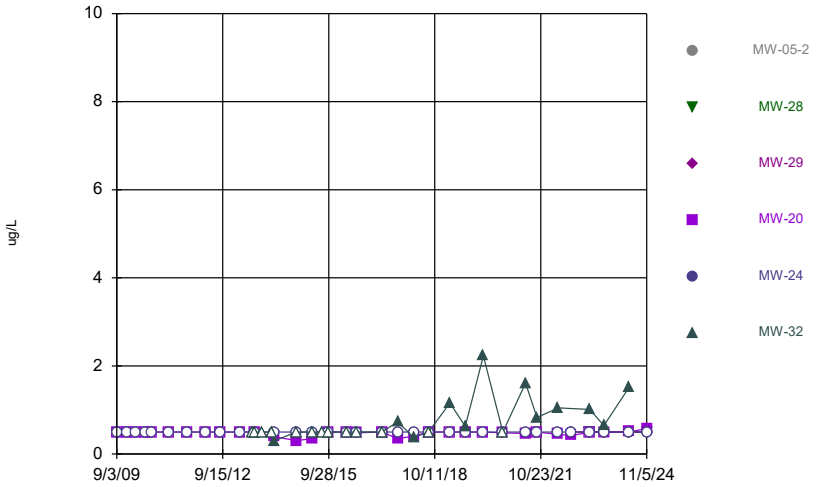
Hollow symbols indicate censored values.

Time Series



Constituent: Chlorobenzene Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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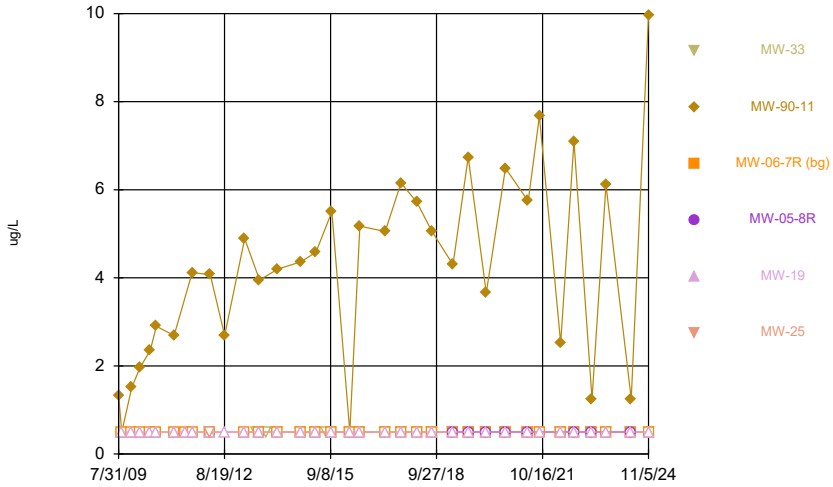
Hollow symbols indicate censored values.

Time Series



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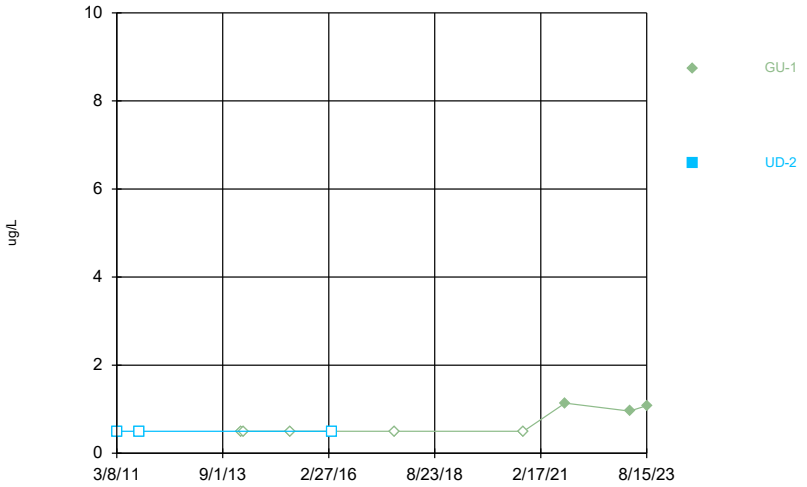
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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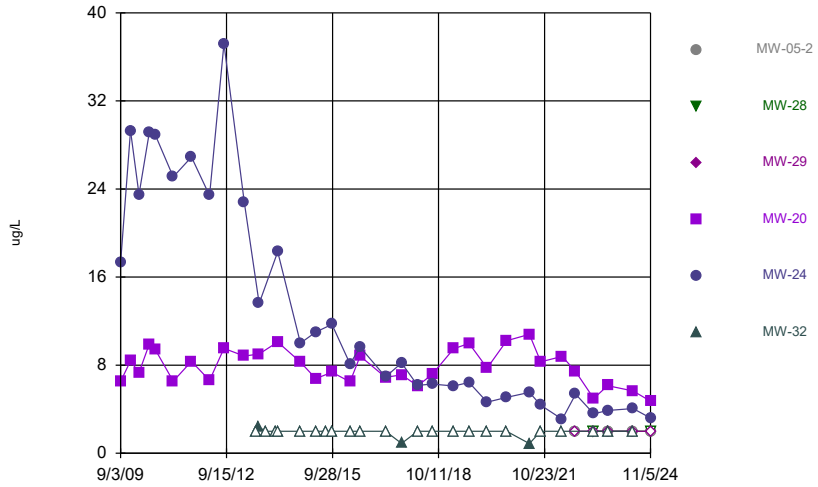
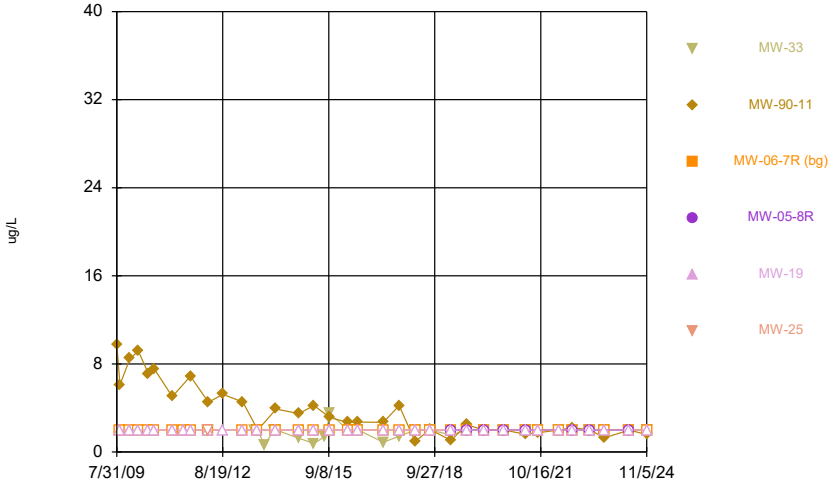
Time Series



Constituent: Chloroethane Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

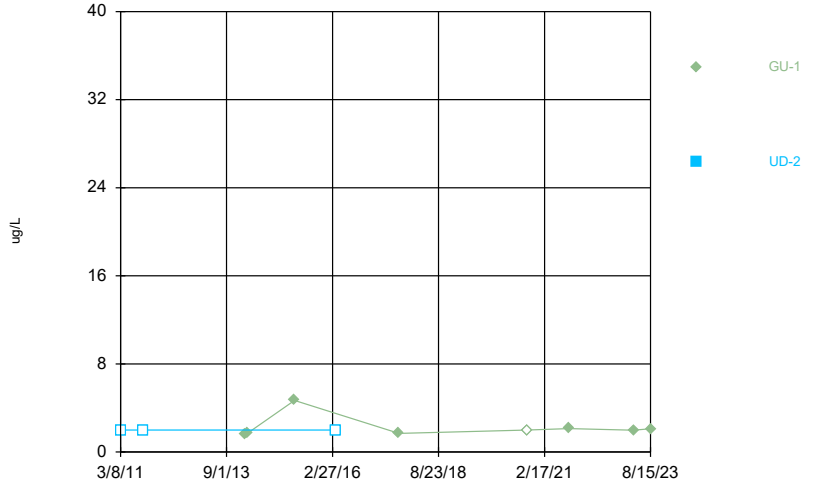
Time Series



Constituent: Chloroethane Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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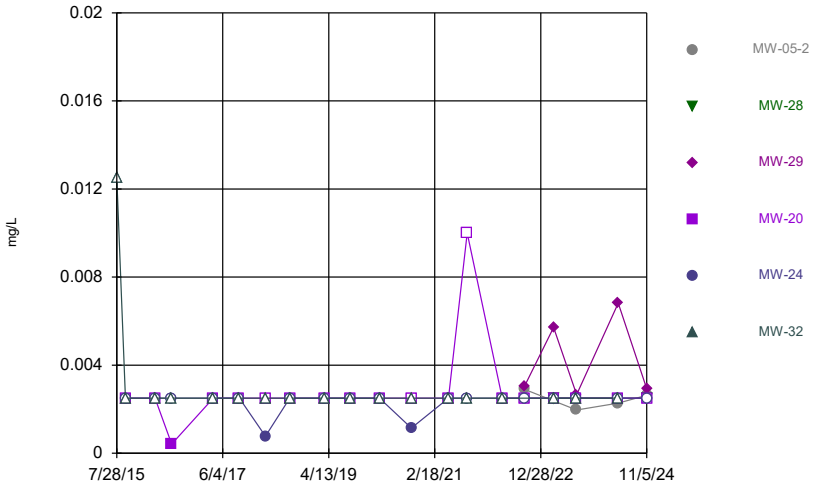
Hollow symbols indicate censored values.

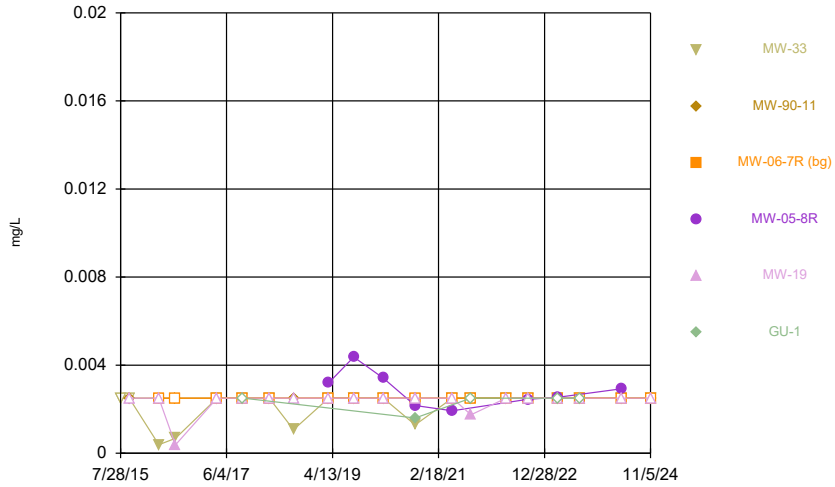
Time Series



Constituent: Chromium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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Time Series

Constituent: Chromium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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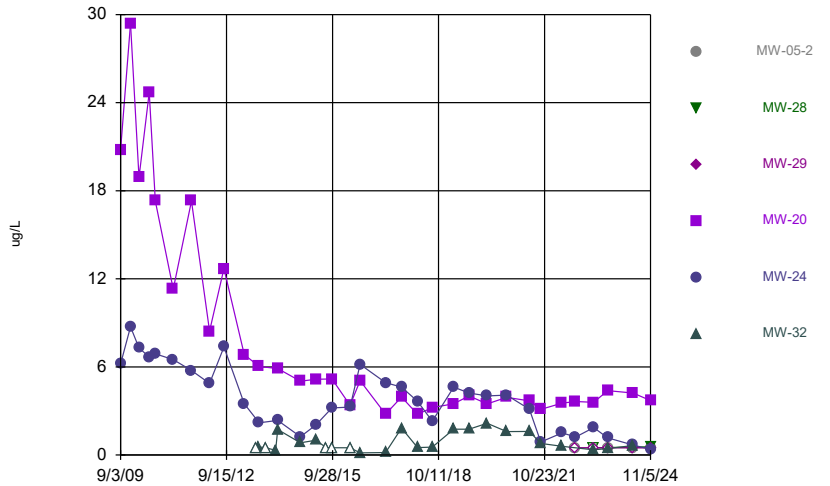
Hollow symbols indicate censored values.

Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Mai
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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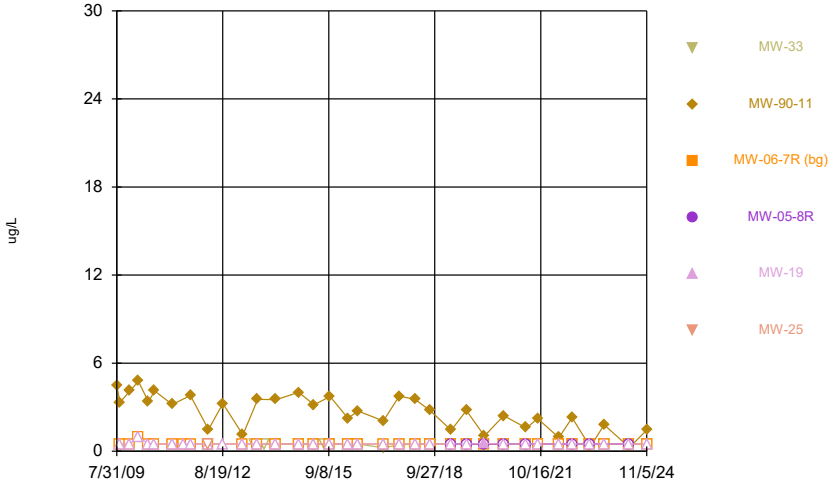
Hollow symbols indicate censored values.

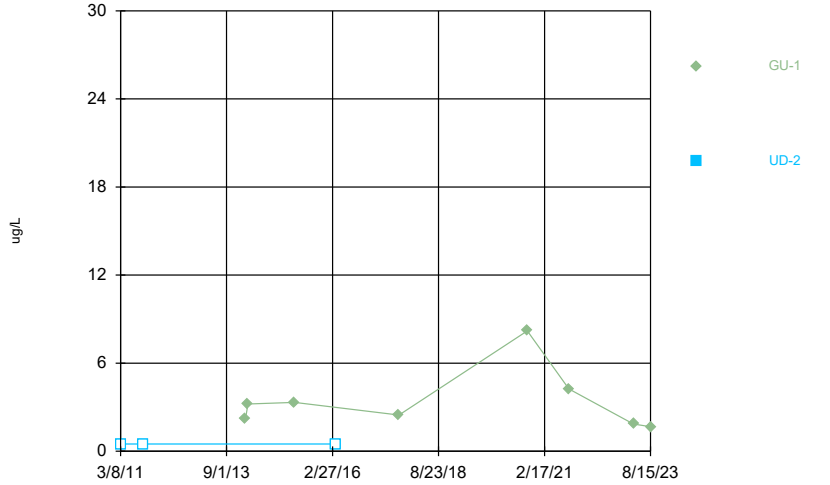
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Mai
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

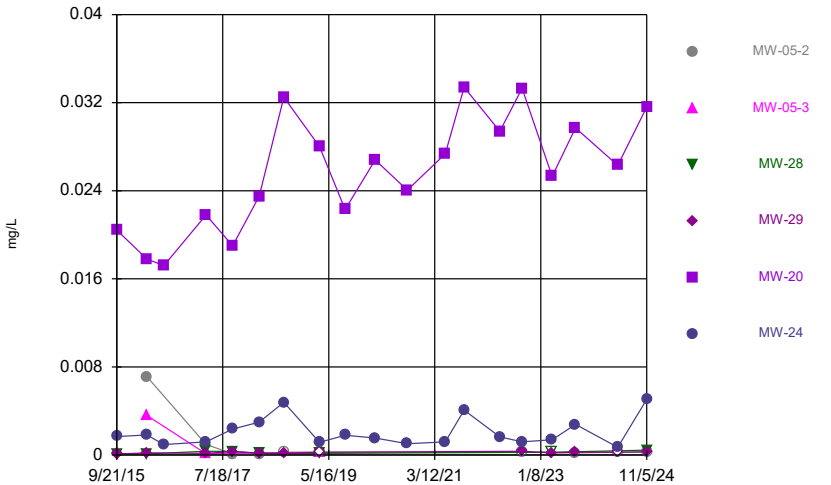
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Mai
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

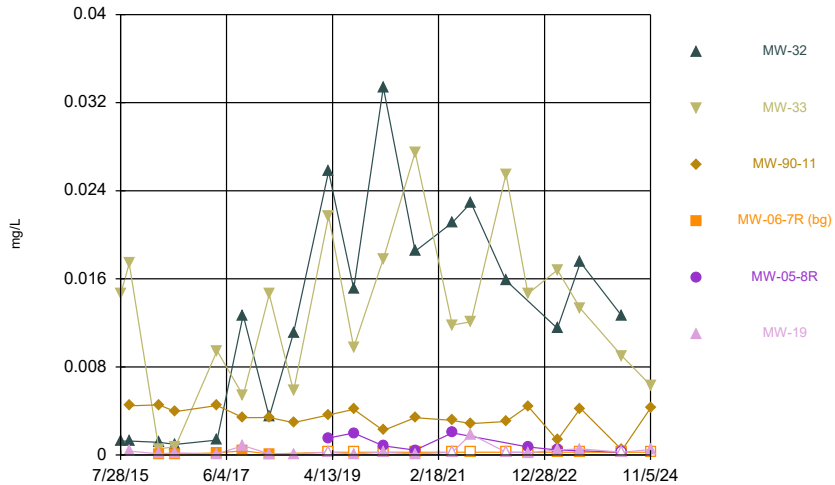
Time Series



Constituent: Cobalt Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

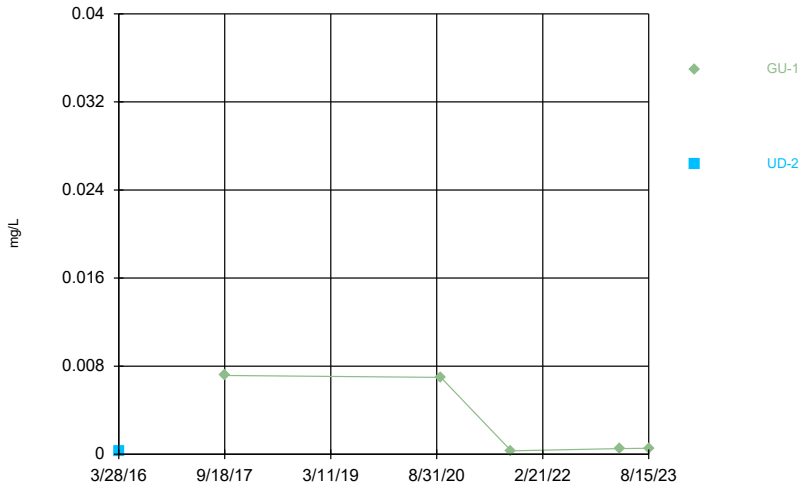
Time Series



Constituent: Cobalt Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

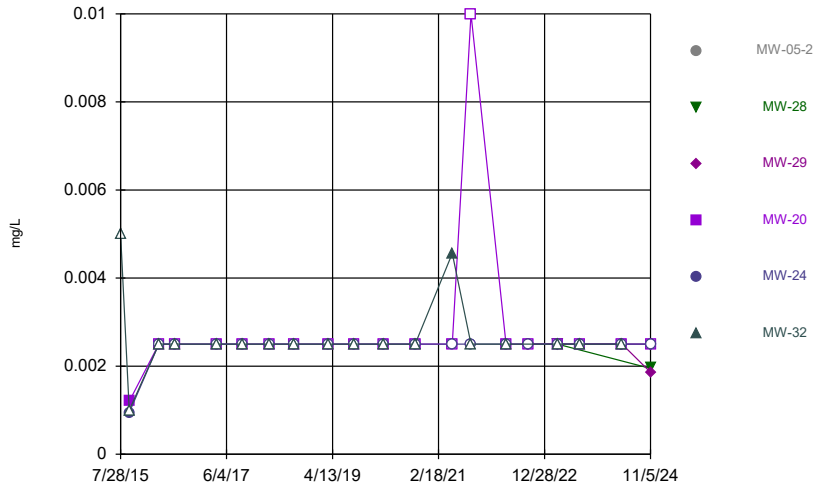
Time Series



Constituent: Cobalt Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Copper Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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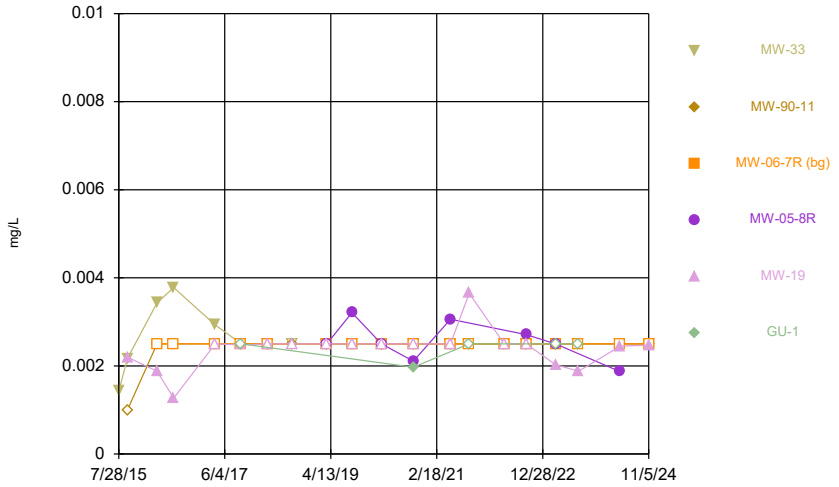
Hollow symbols indicate censored values.

Time Series



Constituent: Copper Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

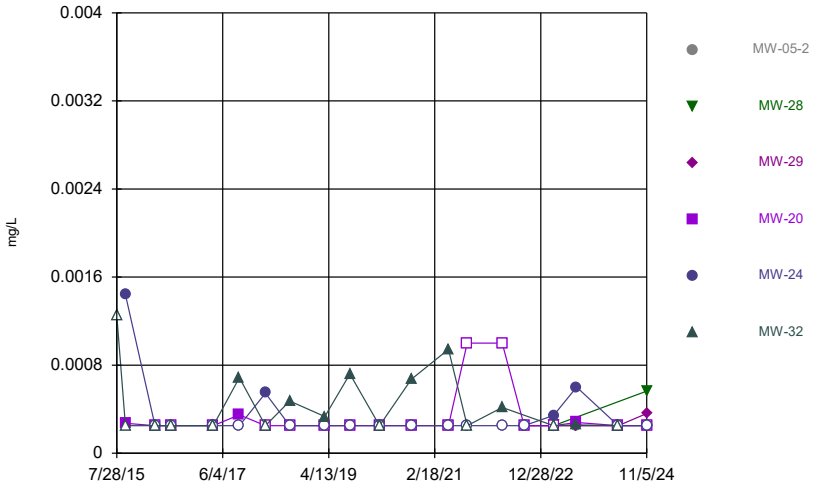
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Time Series

Constituent: Copper Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

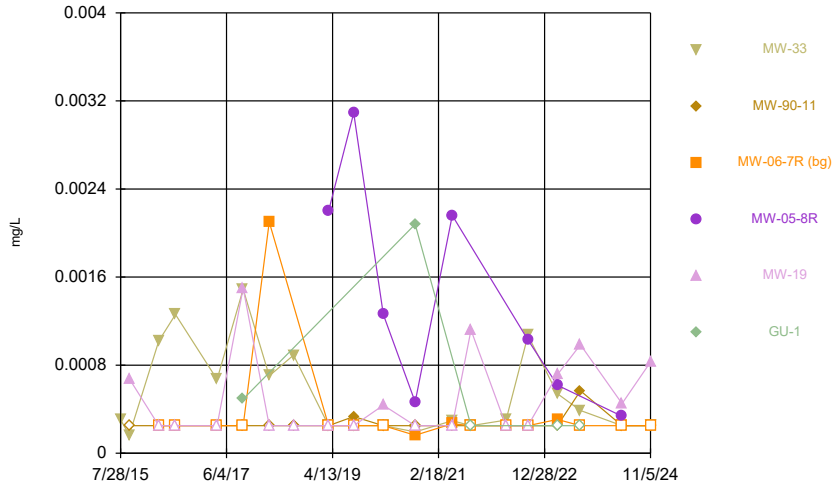
Time Series



Constituent: Lead Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

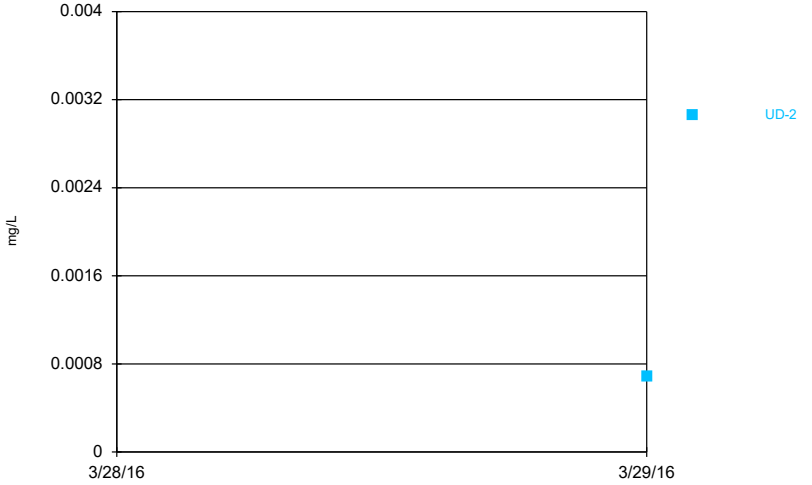
Time Series



Constituent: Lead Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

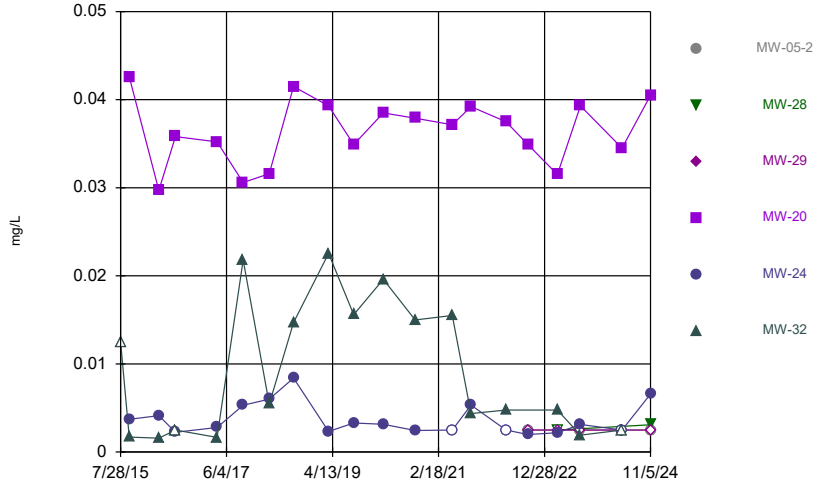
Time Series



Constituent: Lead Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

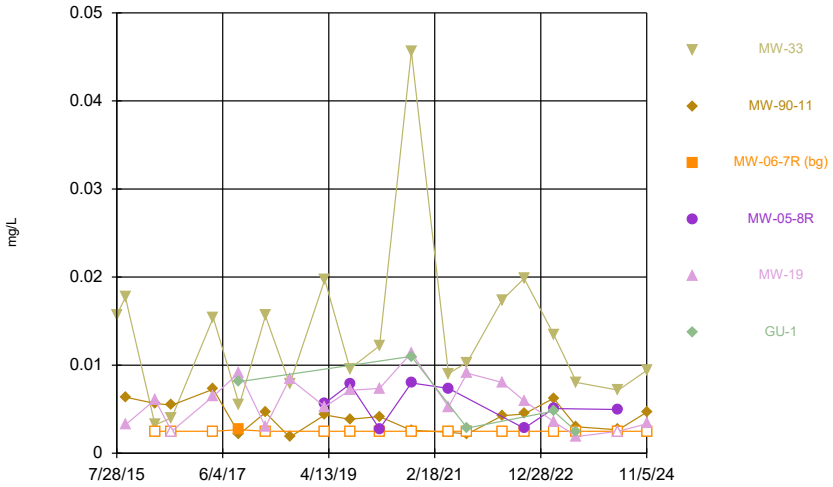
Time Series



Constituent: Nickel Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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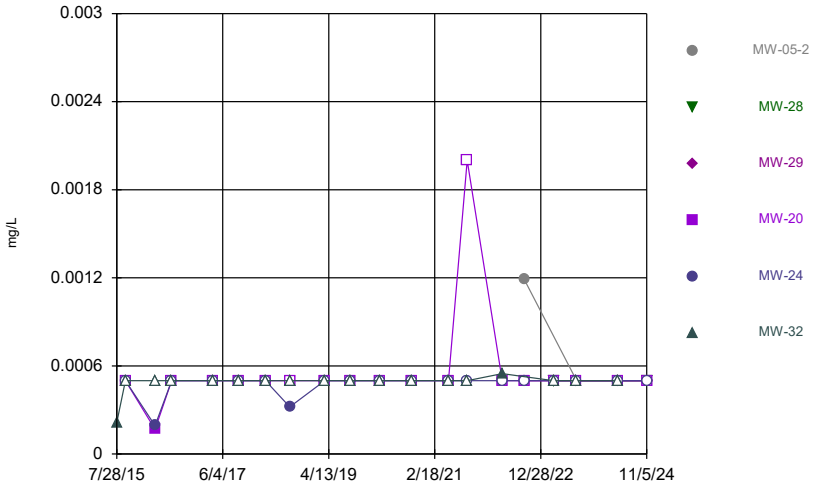
Hollow symbols indicate censored values.

Time Series

Constituent: Nickel Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

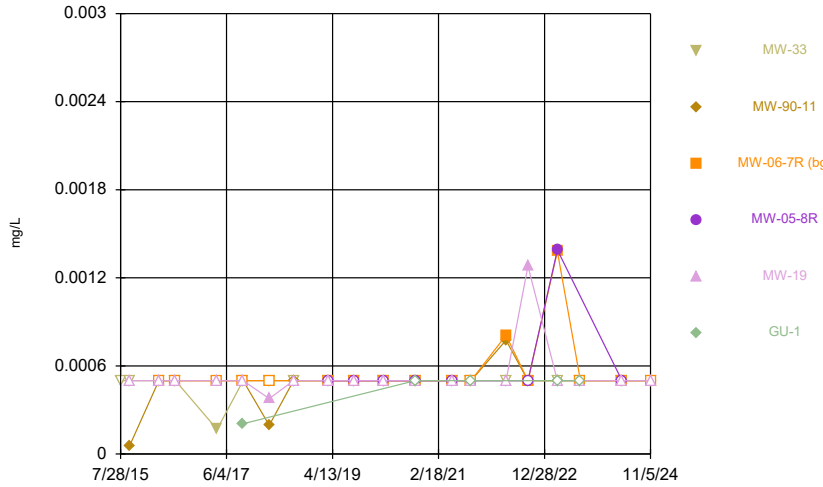
Time Series



Constituent: Silver Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

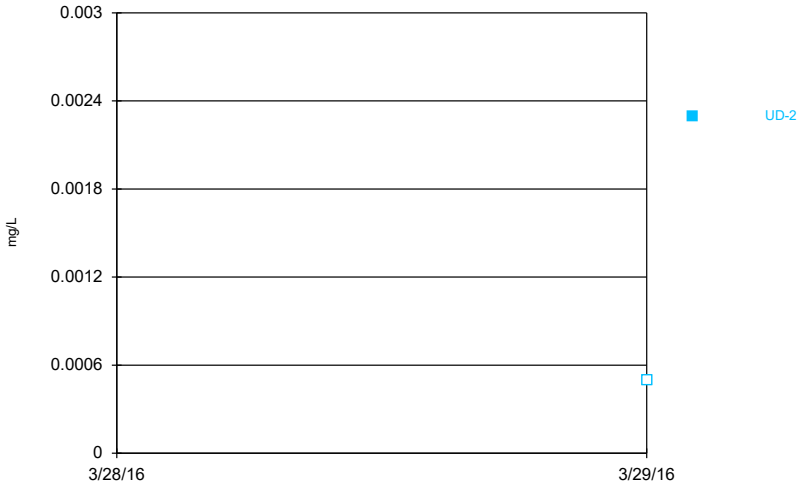
Time Series



Constituent: Silver Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Silver Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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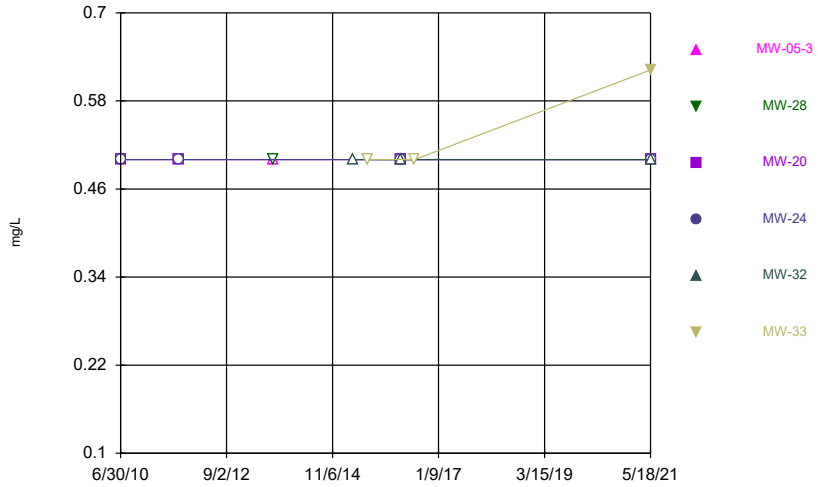
Hollow symbols indicate censored values.

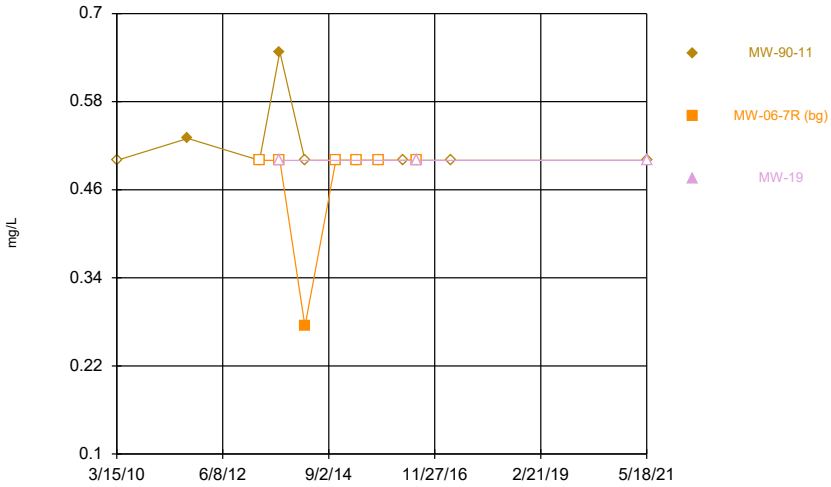
Time Series



Constituent: Sulfide Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

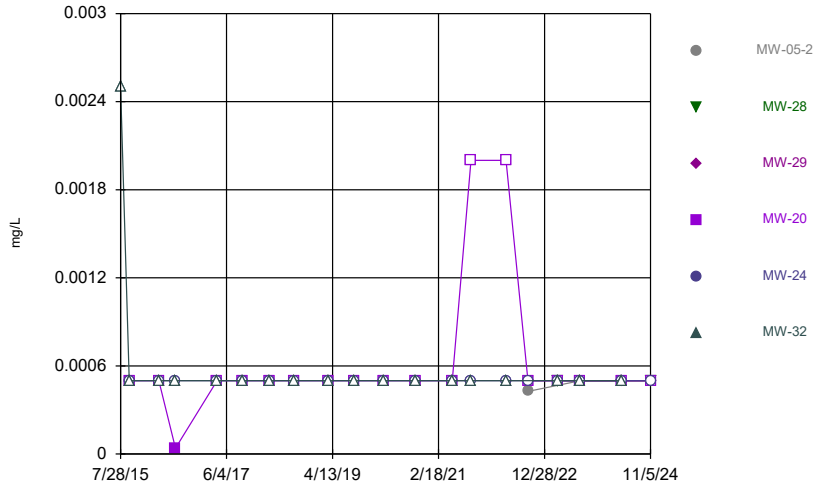
Time Series



Constituent: Sulfide Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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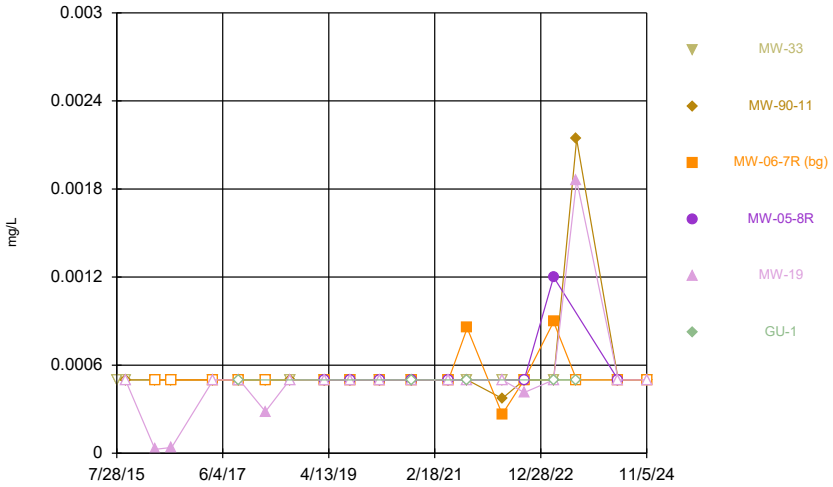
Hollow symbols indicate censored values.

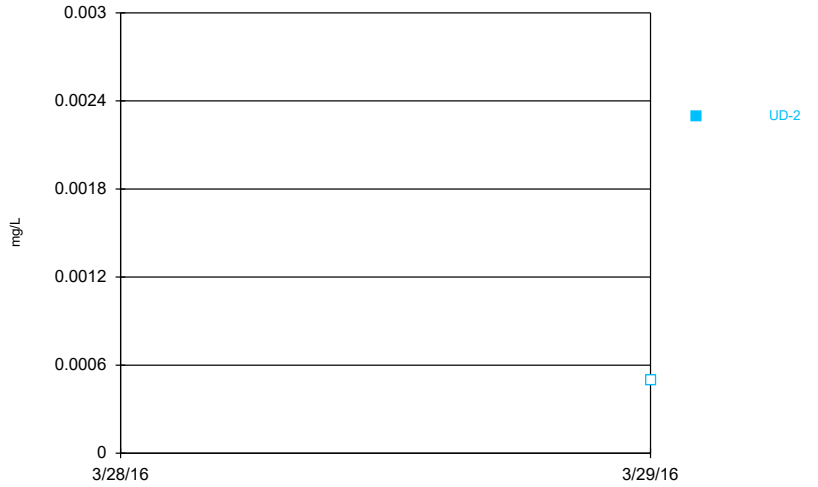
Time Series



Constituent: Thallium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

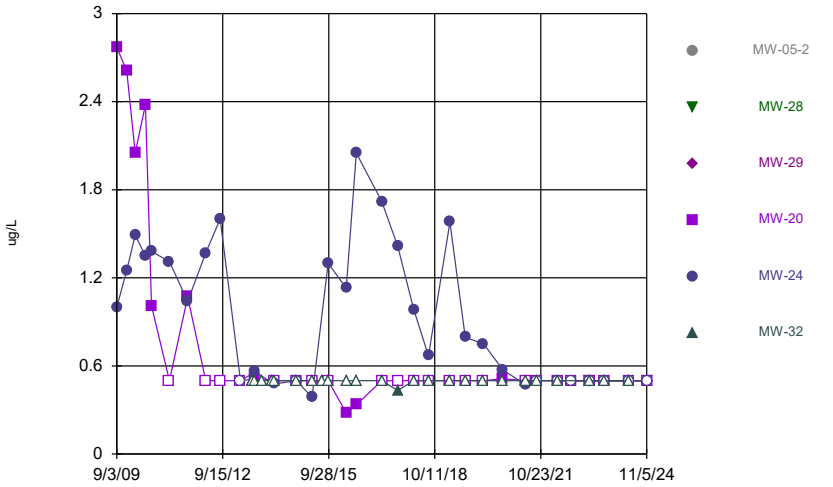
Time Series



Constituent: Thallium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

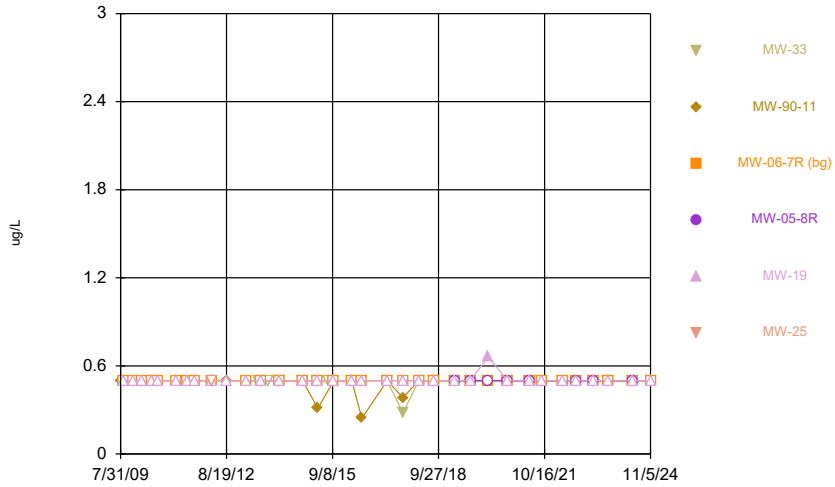
Time Series



Constituent: Trichloroethene Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

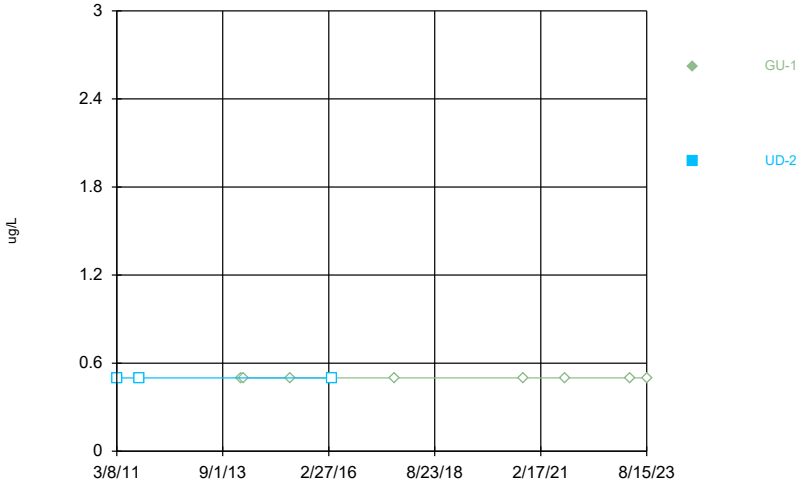
Time Series



Constituent: Trichloroethene Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

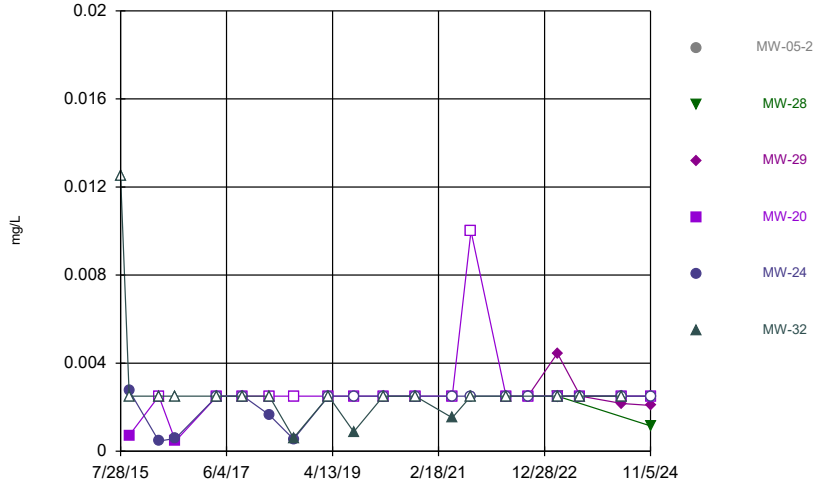
Time Series



Constituent: Trichloroethene Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

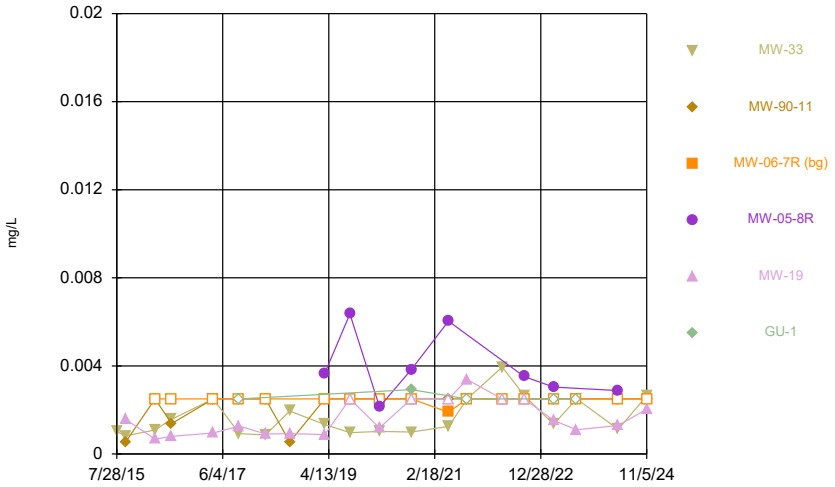
Time Series



Constituent: Vanadium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

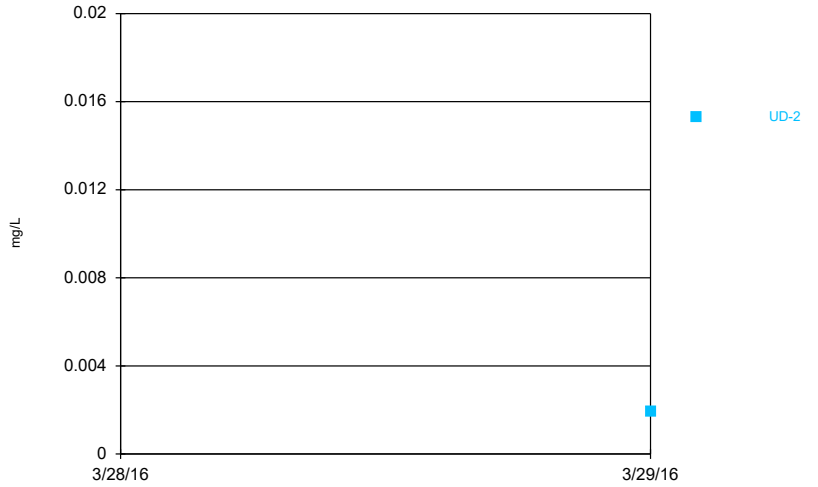
Time Series



Constituent: Vanadium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Time Series



Constituent: Vanadium Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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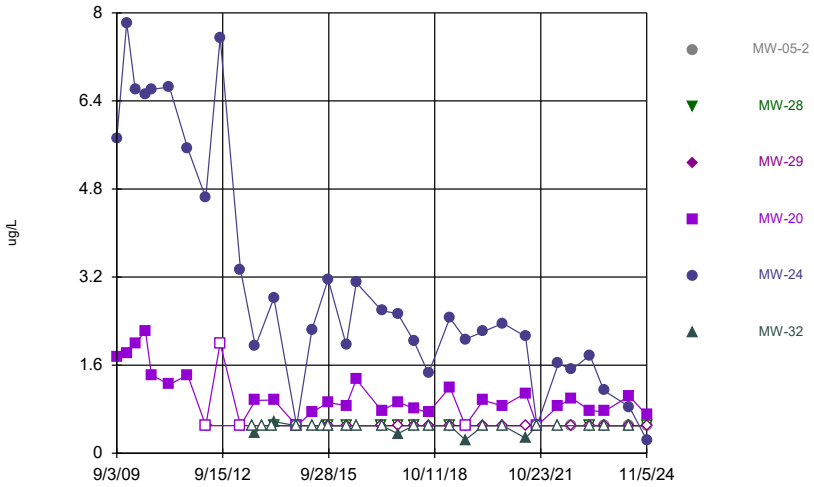
Hollow symbols indicate censored values.

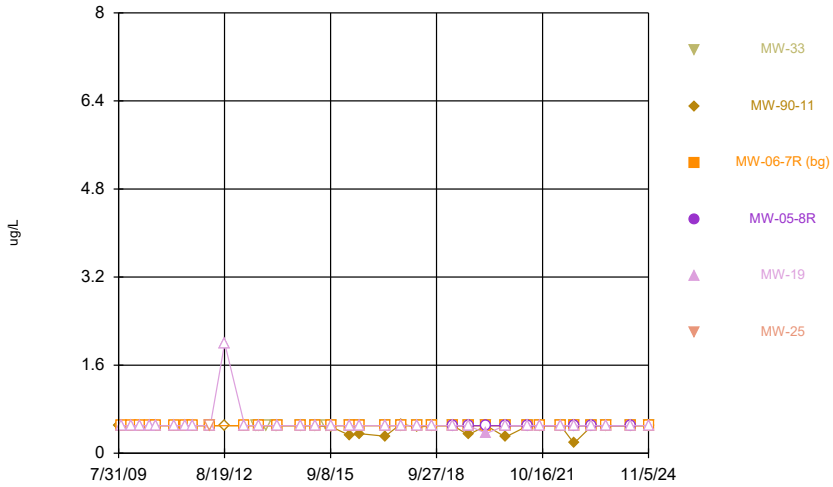
Time Series



Constituent: Vinyl chloride Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

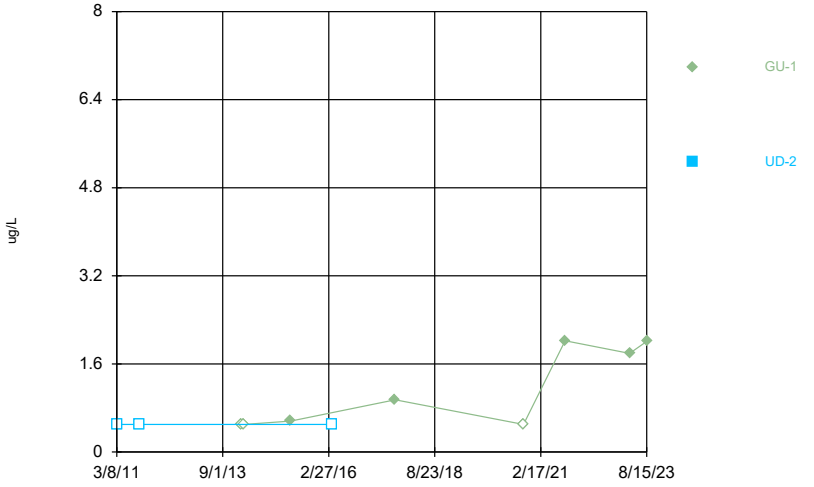
Time Series



Constituent: Vinyl chloride Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

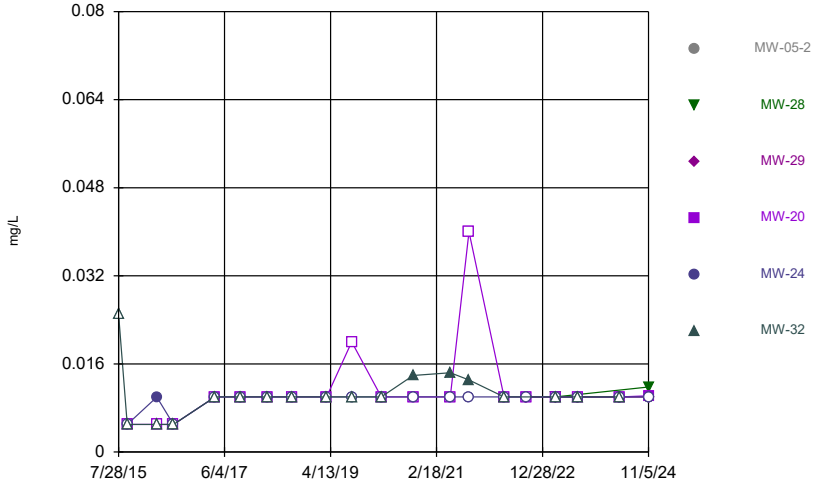
Time Series



Constituent: Vinyl chloride Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

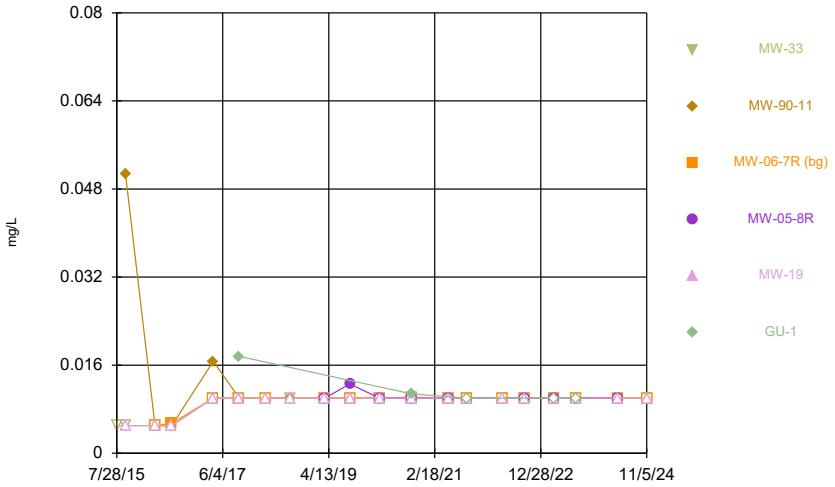
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Time Series



Constituent: Zinc Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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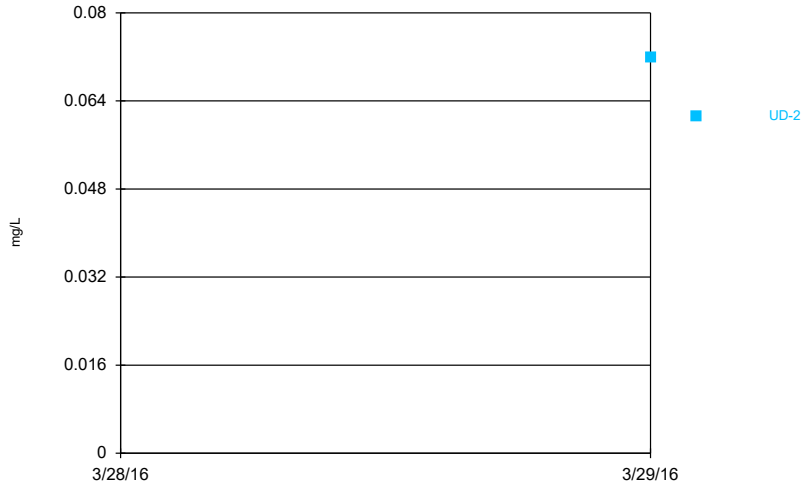
Time Series



Constituent: Zinc Analysis Run 12/4/2024 2:48 PM View: 2024AWQR-Time_Series_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Time Series Plot

Bedrock

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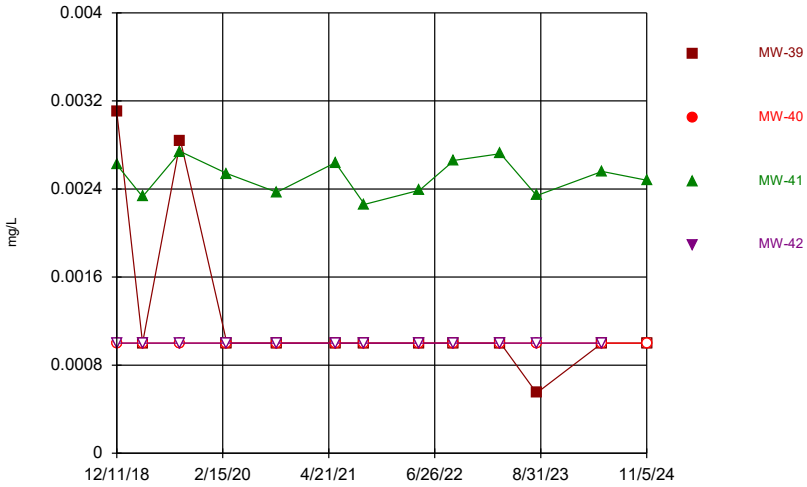
Hollow symbols indicate censored values.

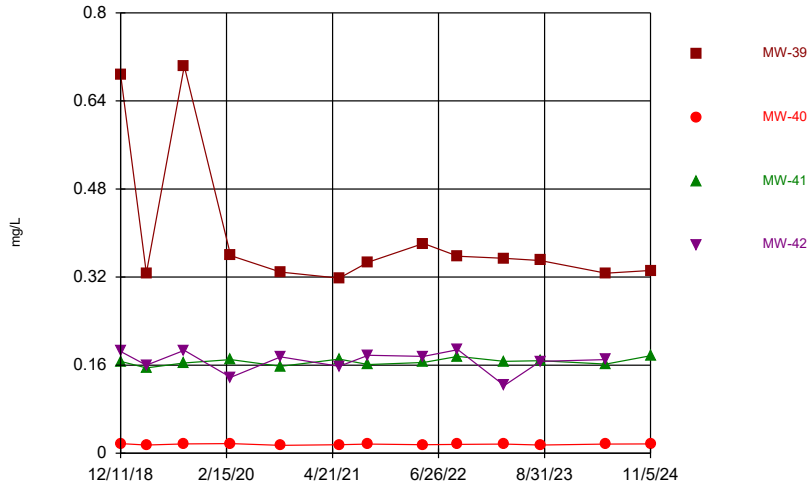
Time Series



Constituent: Arsenic Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Time Series



Constituent: Barium Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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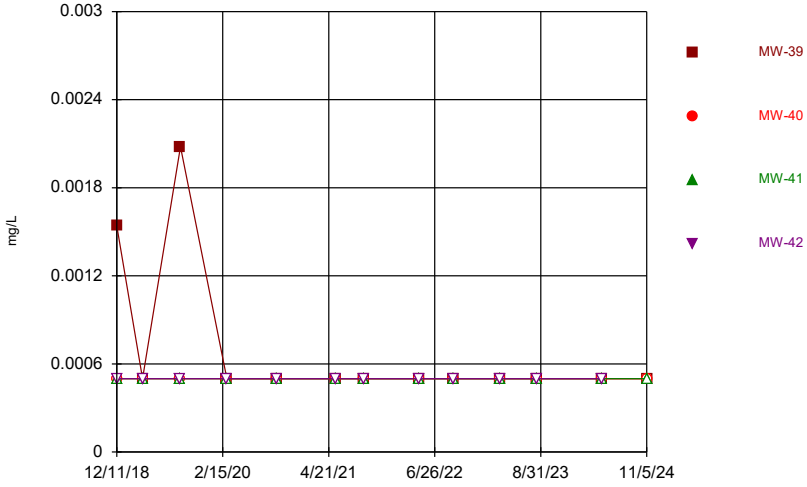
Hollow symbols indicate censored values.

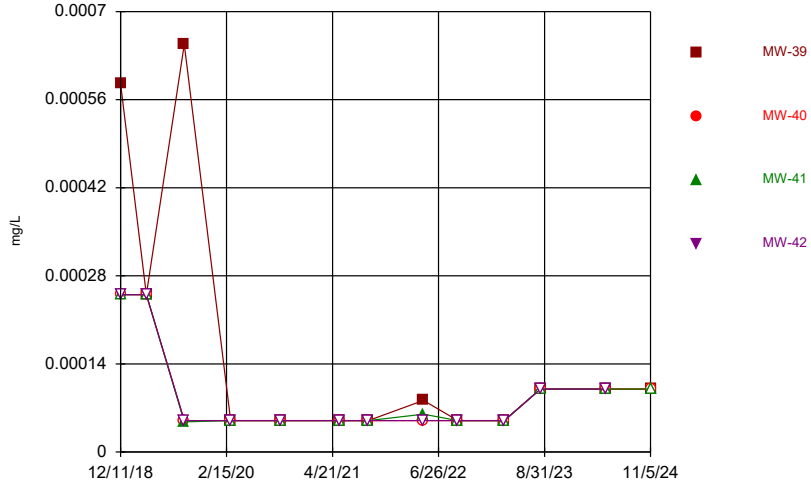
Time Series



Constituent: Beryllium Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

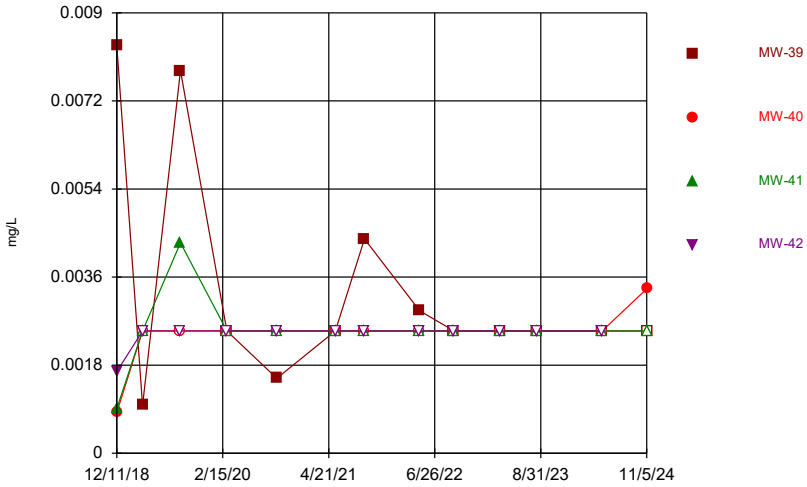
Time Series



Constituent: Cadmium Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

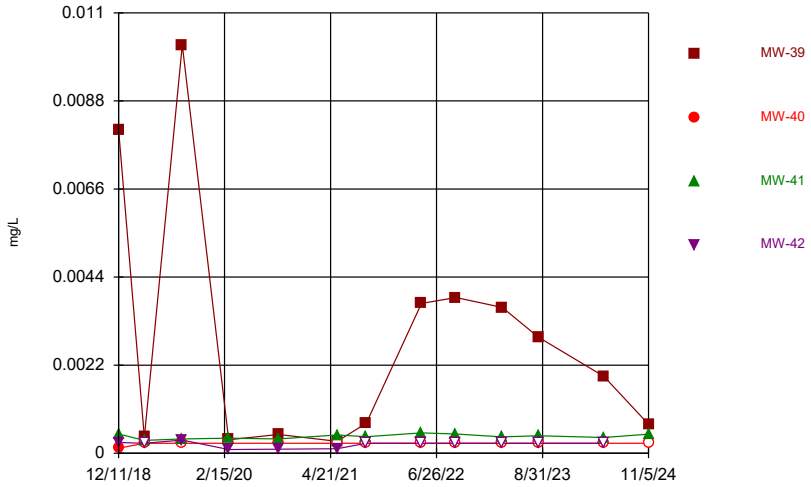
Time Series



Constituent: Chromium Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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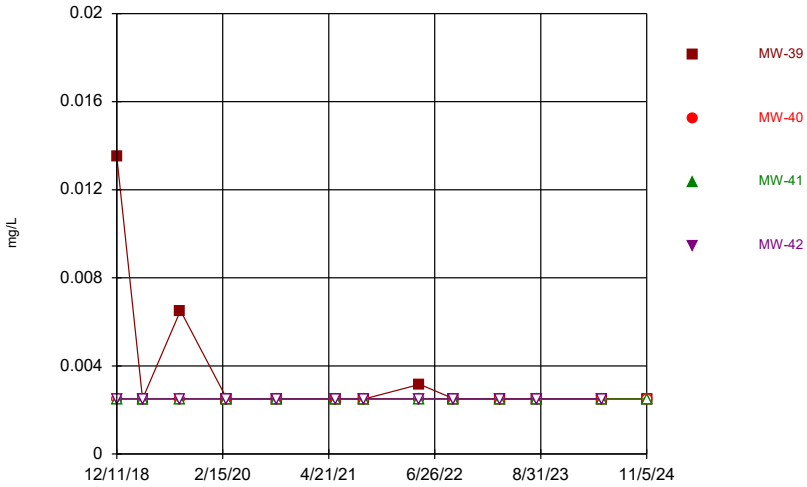
Hollow symbols indicate censored values.

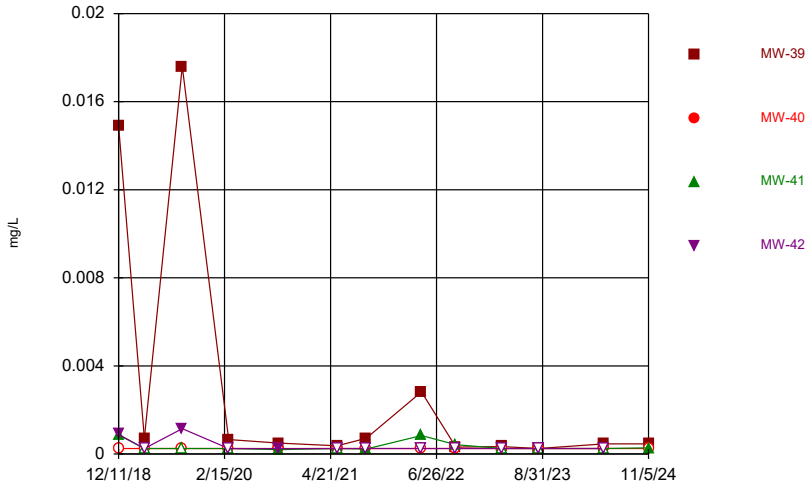
Time Series



Constituent: Copper Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

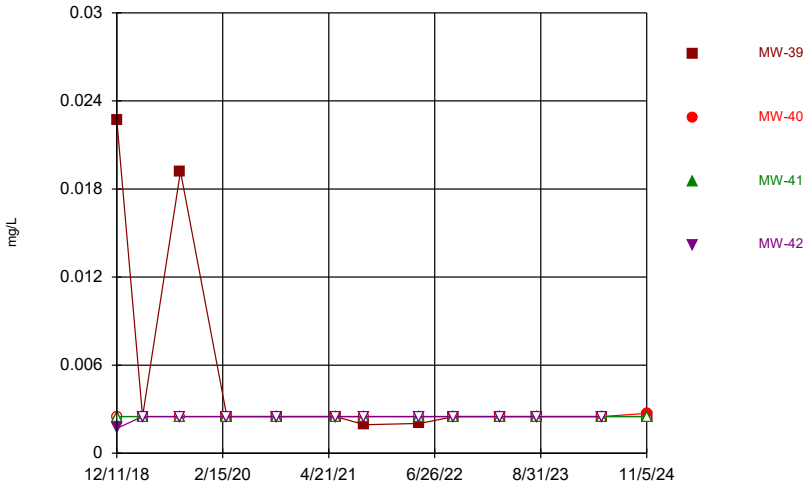
Time Series



Constituent: Lead Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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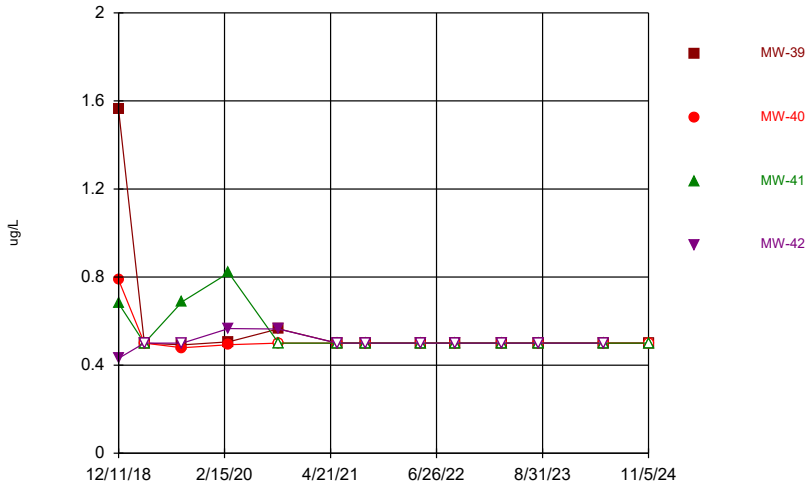
Hollow symbols indicate censored values.

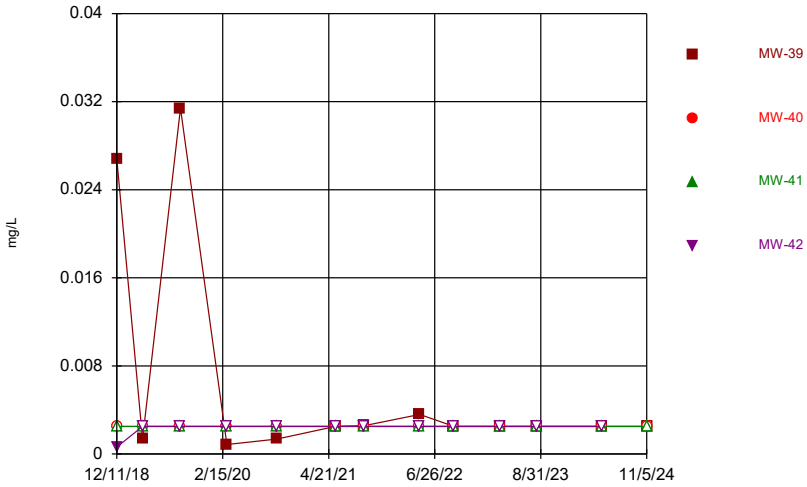
Time Series



Constituent: Toluene Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

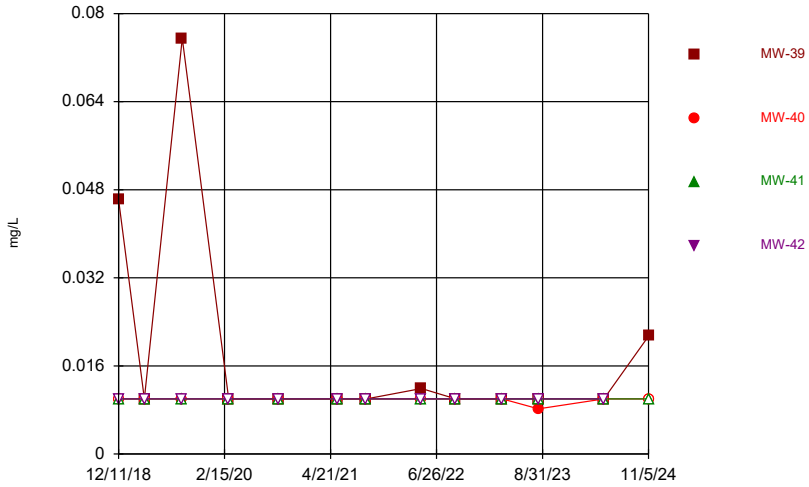
Time Series



Constituent: Vanadium Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 12/4/2024 2:58 PM View: 2024AWQR-Time_Series_Bedrock
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Outliers

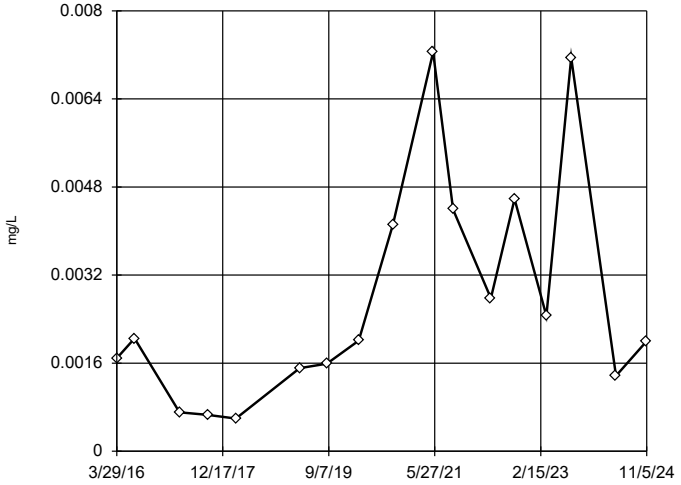
MW-06-7R BG Outlier Analysis

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 12/4/2024, 4:21 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	MW-06-7R (bg)	No	n/a	n/a	EPA/OH	0.05	17	0.002759	0.002066	ln(x)	ShapiroWilk
Barium (mg/L)	MW-06-7R (bg)	No	n/a	n/a	EPA/OH	0.05	17	0.1795	0.1012	ln(x)	ShapiroWilk
Cadmium (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	17	0.0001224	0.00008191	n/a	n/a
Cobalt (mg/L)	**MW-06-7R (bg)**	**Yes**	**0.000064,0.000078,0.000377,0.000098**	**3/29/2016,7/13/2016,9/19/2017,3/5/2018**	**NP (nrm)/OH**	**NaN**	**17**	**0.0002243**	**0.00007709**	**unknown**	**ShapiroWilk**
Lead (mg/L)	**MW-06-7R (bg)**	**Yes**	**0.0021**	**3/5/2018**	**OH**	**NaN**	**17**	**0.0003581**	**0.0004496**	**n/a**	**n/a**
Nickel (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	17	0.002511	0.00004366	n/a	n/a
Selenium (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	17	0.002389	0.0003144	n/a	n/a
Silver (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	17	0.0005699	0.0002217	n/a	n/a
Thallium (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	17	0.0005302	0.0001415	n/a	n/a
Vanadium (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	17	0.002465	0.0001455	n/a	n/a
Zinc (mg/L)	MW-06-7R (bg)	No	n/a	n/a	OH	NaN	17	0.009436	0.001593	n/a	n/a

EPA Screening (suspected outliers for Dixon's Test)

MW-06-7R (bg)



n = 17

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.002759, std. dev. 0.002066, critical Tn 2.475

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9515
Critical = 0.851 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Arsenic Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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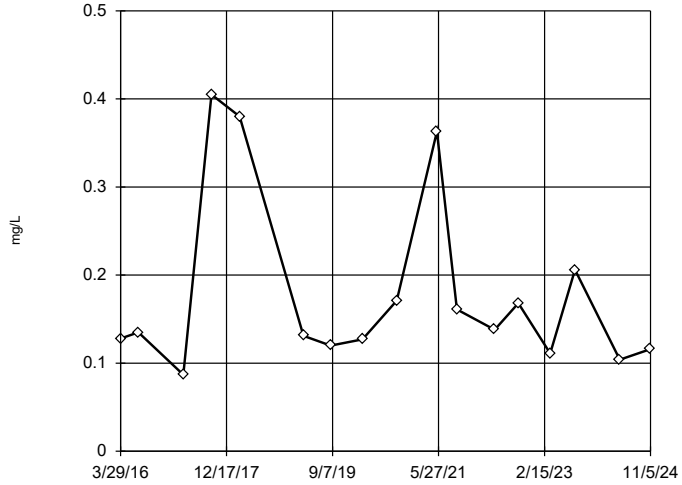
EPA Screening (suspected outliers for Dixon's Test)

MW-06-7R (bg)



n = 17

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.1795, std. dev. 0.1012, critical Tn 2.475

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8513
Critical = 0.851 (after natural log transformation)
The distribution was found to be log-normal.

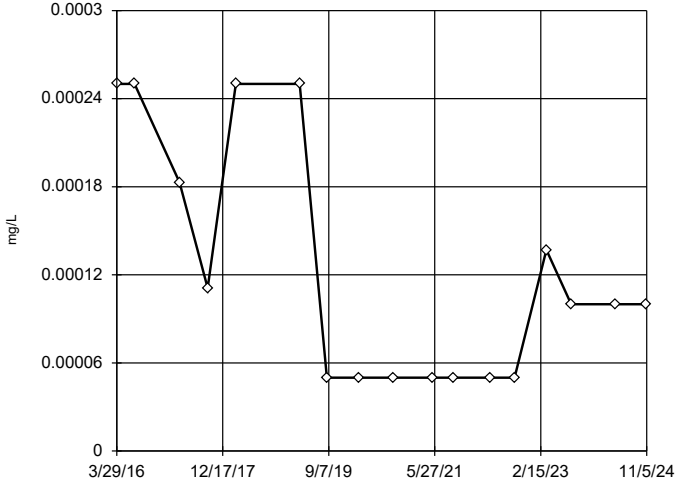
Constituent: Barium Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 17

No statistical outliers.

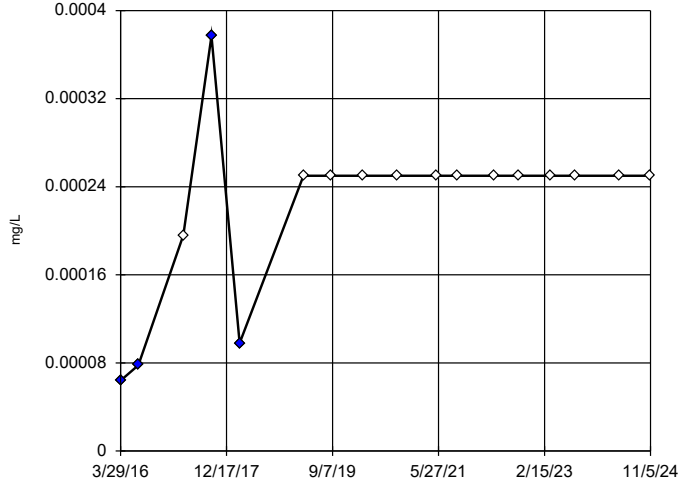
Constituent: Cadmium Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 17

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

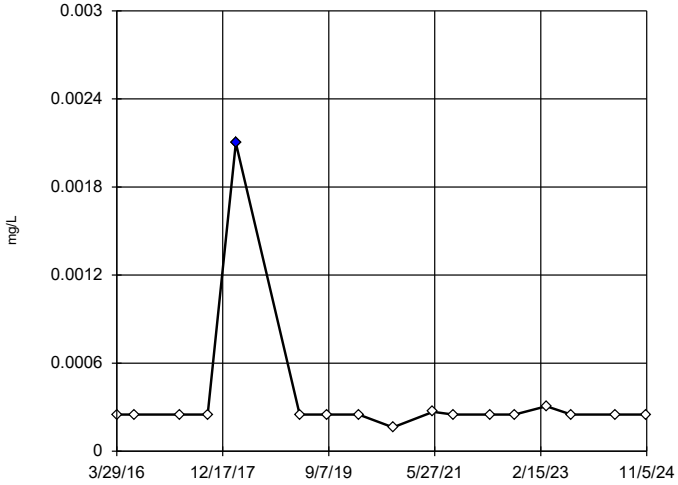
High cutoff = 0.000331, low cutoff = 0.000142, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 17

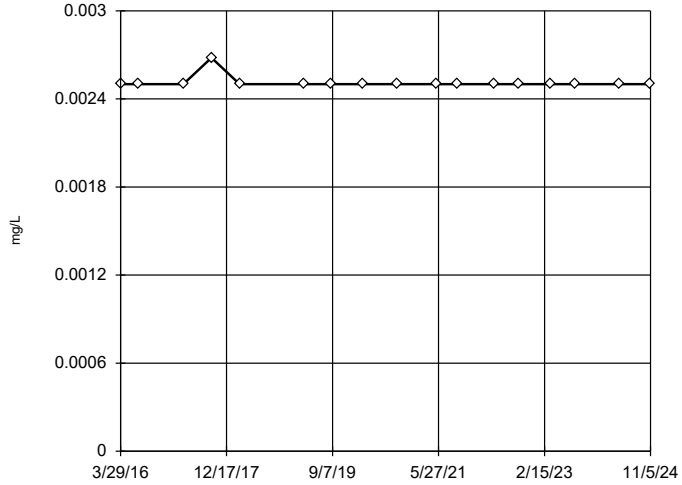
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Lead Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 17

No statistical outliers.

Constituent: Nickel Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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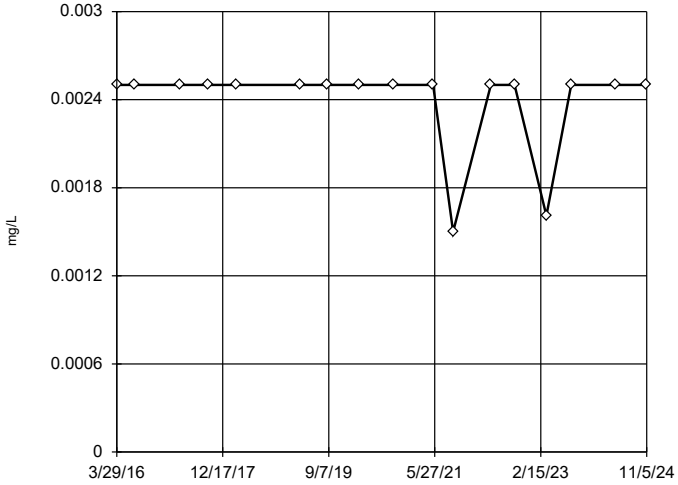
Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 17

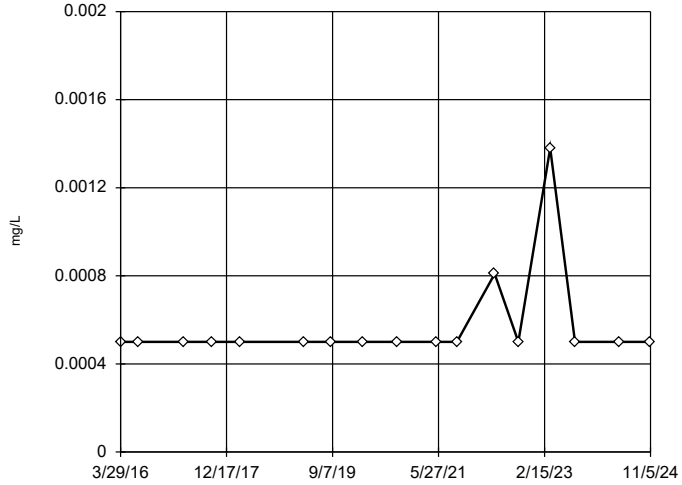
No statistical outliers.

Constituent: Selenium Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



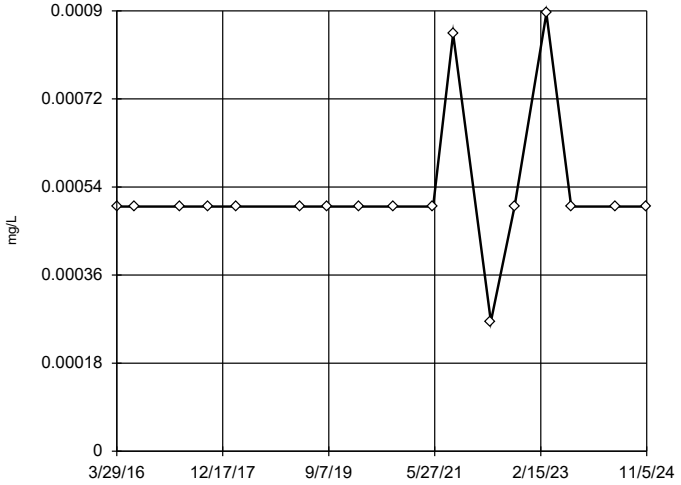
n = 17

No statistical outliers.

Constituent: Silver Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 17

No statistical outliers.

Constituent: Thallium Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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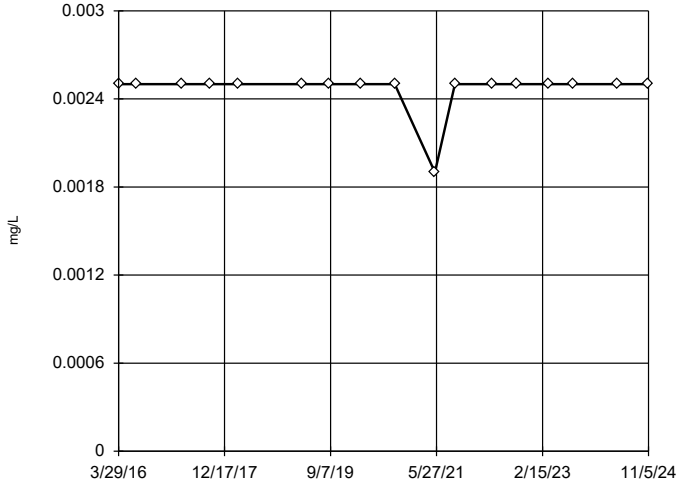
Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 17

No statistical outliers.

Constituent: Vanadium Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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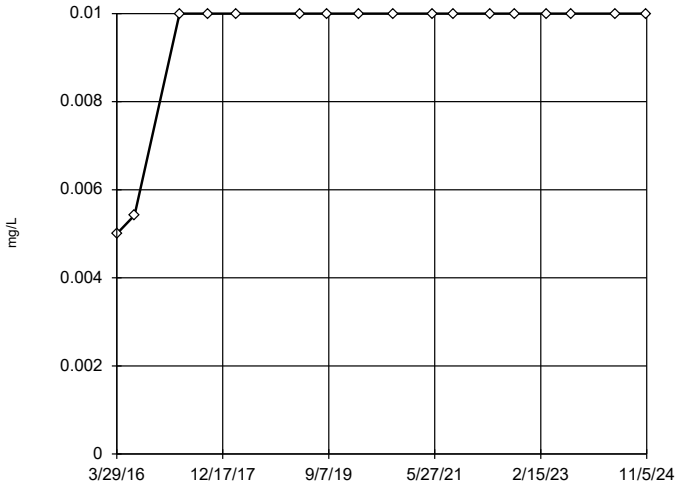
Ohio EPA 0715 Outlier Algorithm

MW-06-7R (bg)



n = 17

No statistical outliers.

Constituent: Zinc Analysis Run 12/4/2024 4:13 PM View: 2024AWQR-Outliers_Main

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

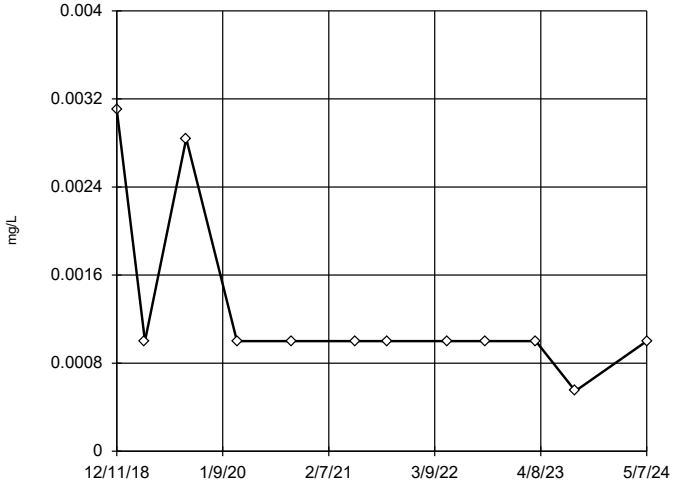
MW-39 BG Outlier Analysis

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 12/5/2024, 10:33 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	MW-39	No	n/a	n/a	OH	NaN	12	0.001291	0.000797	n/a	n/a
Barium (mg/L)	**MW-39**	**Yes**	**0.688,0.703**	**12/11/2018,8/27/2019**	**NP (nrm)/OH**	**NaN**	**12**	**0.4034**	**0.1376**	**unknown**	**ShapiroWilk**
Beryllium (mg/L)	**MW-39**	**Yes**	**0.00208**	**8/27/2019**	**OH**	**NaN**	**12**	**0.0007183**	**0.0005228**	**n/a**	**n/a**
Cadmium (mg/L)	**MW-39**	**Yes**	**0.000648,0.000585,0.00025**	**8/27/2019,12/11/2018,3/26/2019**	**OH**	**NaN**	**12**	**0.0001721**	**0.0002155**	**n/a**	**n/a**
Chromium (mg/L)	MW-39	No	n/a	n/a	EPA/OH	0.05	12	0.003412	0.002321	ln(x)	ShapiroWilk
Cobalt (mg/L)	MW-39	No	n/a	n/a	EPA/OH	0.05	12	0.003052	0.003207	normal	ShapiroWilk
Copper (mg/L)	**MW-39**	**Yes**	**0.0135**	**12/11/2018**	**OH**	**NaN**	**12**	**0.003806**	**0.003262**	**n/a**	**n/a**
Lead (mg/L)	**MW-39**	**Yes**	**0.0149,0.0176**	**12/11/2018,8/27/2019**	**NP (nrm)/OH**	**NaN**	**12**	**0.003304**	**0.006113**	**unknown**	**ShapiroWilk**
Nickel (mg/L)	MW-39	No	n/a	n/a	NP (nrm)/OH	NaN	12	0.005489	0.007263	unknown	ShapiroWilk
Selenium (mg/L)	MW-39	No	n/a	n/a	OH	NaN	12	0.002346	0.0004217	n/a	n/a
Vanadium (mg/L)	**MW-39**	**Yes**	**0.0268,0.0314**	**12/11/2018,8/27/2019**	**NP (nrm)/OH**	**NaN**	**12**	**0.006703**	**0.01053**	**unknown**	**ShapiroWilk**
Zinc (mg/L)	**MW-39**	**Yes**	**0.0755,0.0462**	**8/27/2019,12/11/2018**	**OH**	**NaN**	**12**	**0.01863**	**0.02069**	**n/a**	**n/a**

Ohio EPA 0715 Outlier Algorithm

MW-39



n = 12

No statistical outliers.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8513
Critical = 0.851
The distribution was found to be normally distrib-uted.

Constituent: Arsenic Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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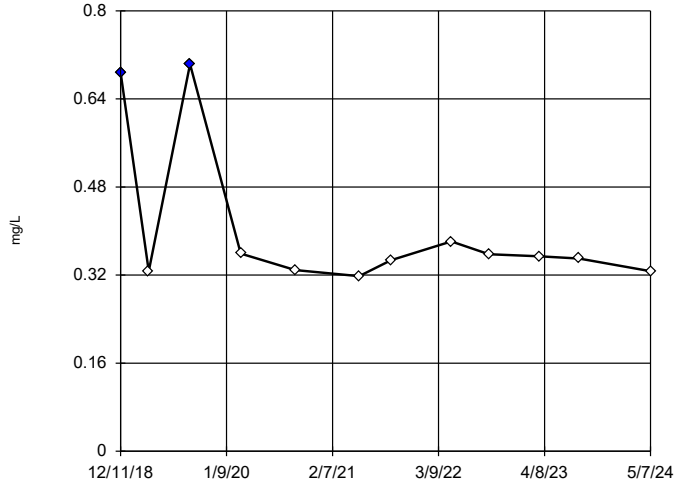
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-39



n = 12

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.496, low cutoff = 0.202, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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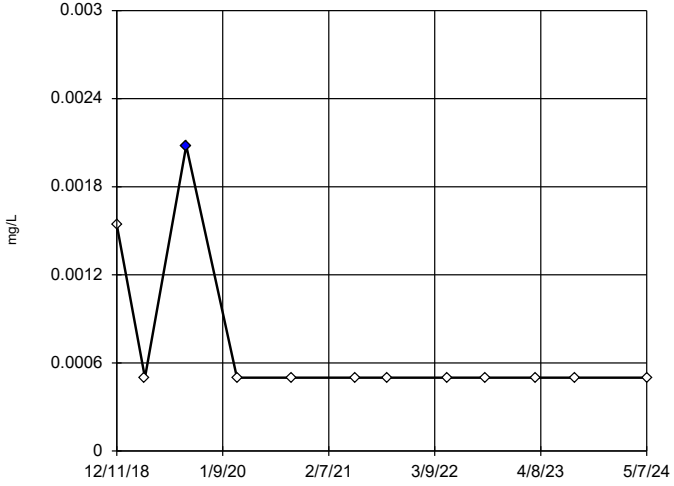
Ohio EPA 0715 Outlier Algorithm

MW-39



n = 12

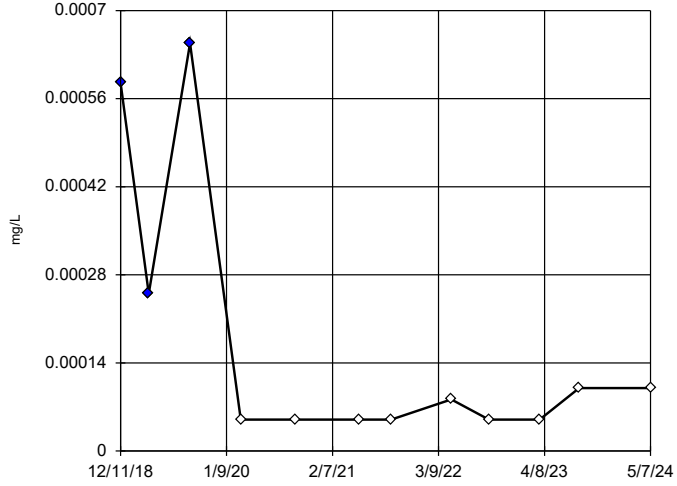
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Beryllium Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-39



n = 12

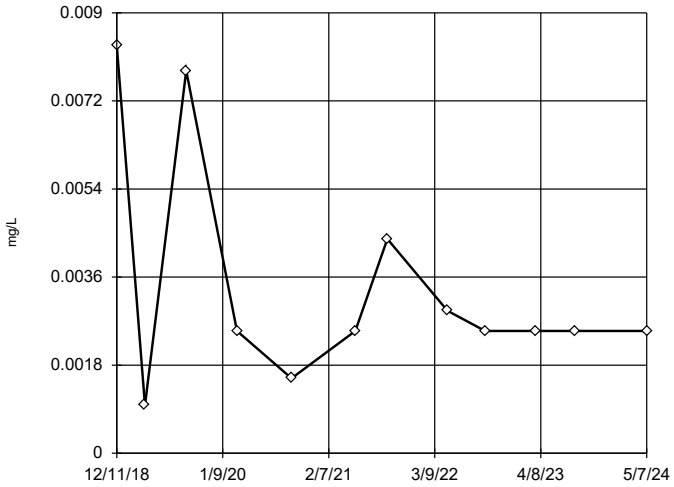
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.6341
Critical = 0.805
The distribution, after removal of suspect val-ues, was found to be nor-mally distributed.

Constituent: Cadmium Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

EPA Screening (suspected outliers for Dixon's Test)

MW-39



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.003412, std. dev. 0.002321, critical Tn 2.285

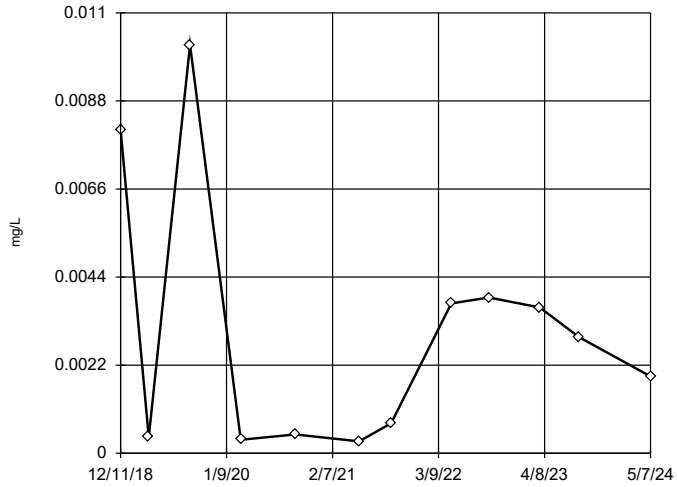
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8777
Critical = 0.805 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chromium Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-39



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.003052, std. dev. 0.003207, critical Tn 2.285

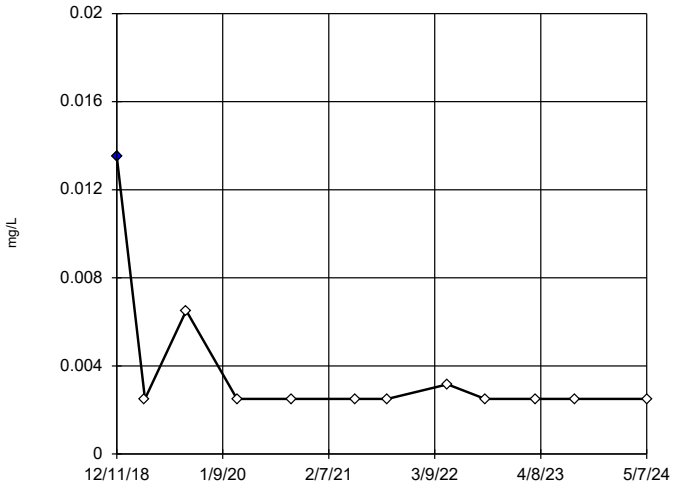
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8194
Critical = 0.805
The distribution was found to be normally distributed.

Constituent: Cobalt Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-39



n = 12

Statistical outlier is drawn as solid.
Outlier per Ohio method.

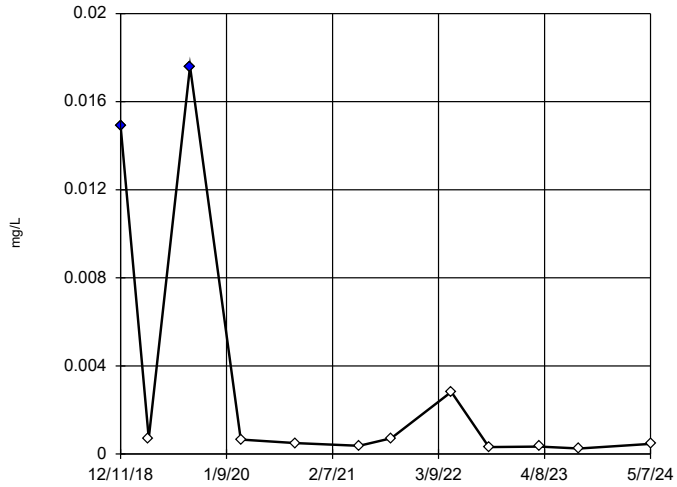
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8194
Critical = 0.805
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Copper Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-39



n = 12

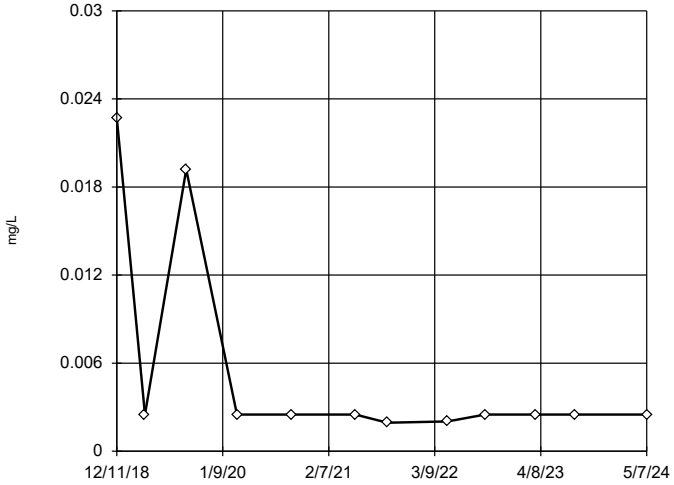
Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.006008, low cutoff = -0.003883, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-39



n = 12

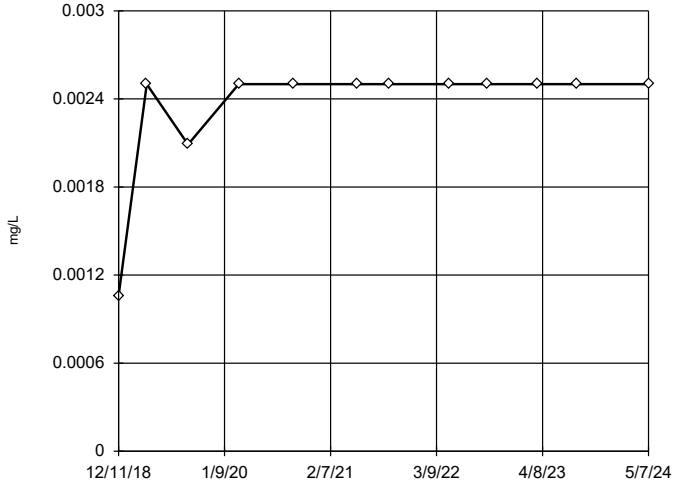
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Nickel Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Ohio EPA 0715 Outlier Algorithm

MW-39



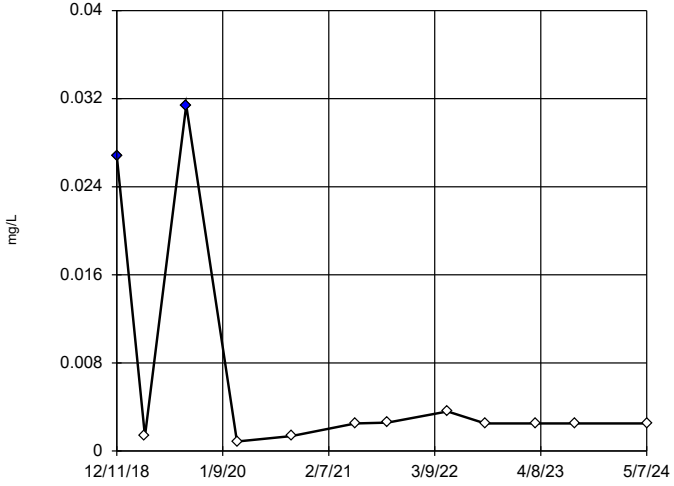
n = 12

No statistical outliers.

Constituent: Selenium Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-39



n = 12

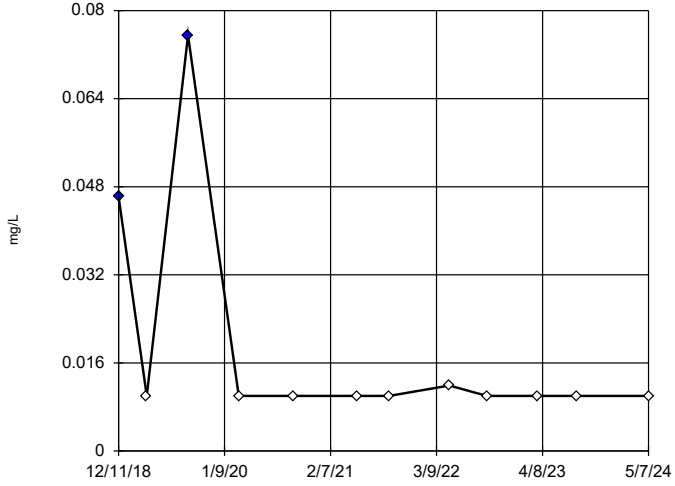
Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.00655, low cutoff = -0.001535, based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Ohio EPA 0715 Outlier Algorithm

MW-39



n = 12

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.7681
Critical = 0.805
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Zinc Analysis Run 12/5/2024 10:27 AM View: 2024AWQR-MW-39_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

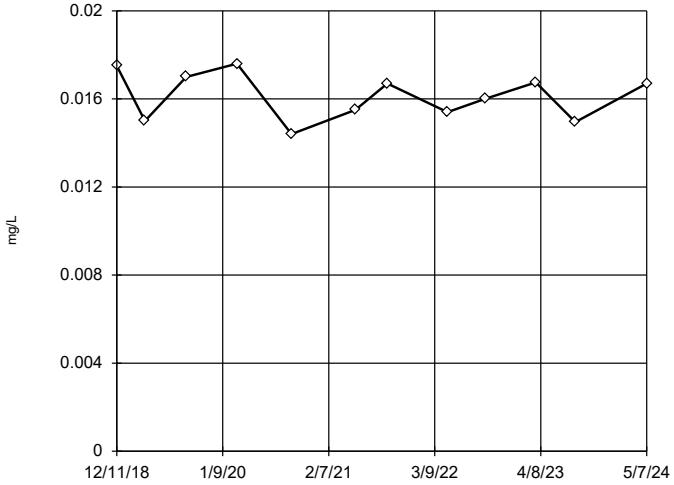
MW-40 BG Outlier Analysis

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 12/5/2024, 12:06 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	MW-40	No	n/a	n/a	EPA/OH	0.05	12	0.01613	0.001063	normal	ShapiroWilk
Chromium (mg/L)	MW-40	No	n/a	n/a	OH	NaN	12	0.002361	0.0004815	n/a	n/a
Cobalt (mg/L)	MW-40	No	n/a	n/a	OH	NaN	12	0.0002396	0.00003608	n/a	n/a
Zinc (mg/L)	MW-40	No	n/a	n/a	OH	NaN	12	0.009852	0.0005138	n/a	n/a

EPA Screening (suspected outliers for Dixon's Test)

MW-40



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.01613, std. dev. 0.001063, critical Tn 2.285

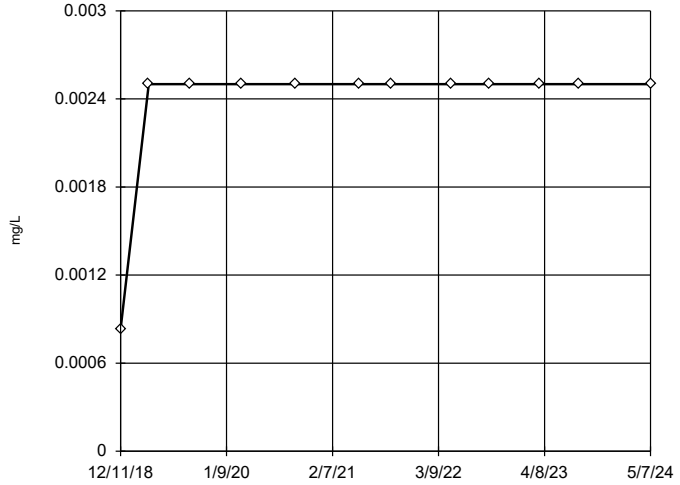
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9378
Critical = 0.805
The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 12/5/2024 12:04 PM View: 2024AWQR-MW-40_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-40



n = 12

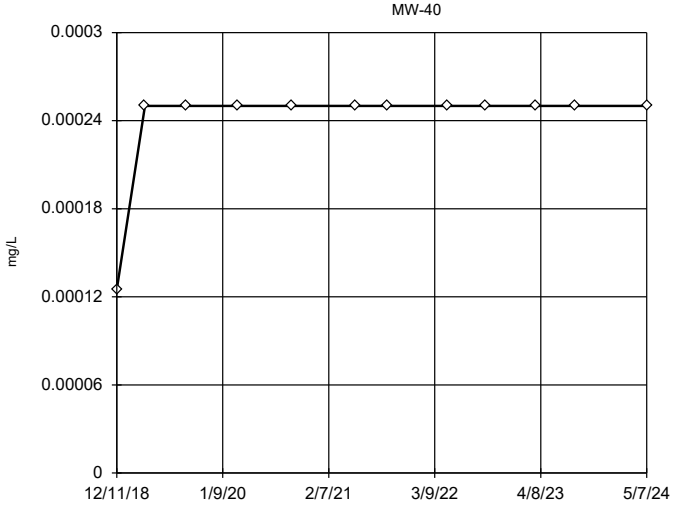
No statistical outliers.

Constituent: Chromium Analysis Run 12/5/2024 12:04 PM View: 2024AWQR-MW-40_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-40



n = 12

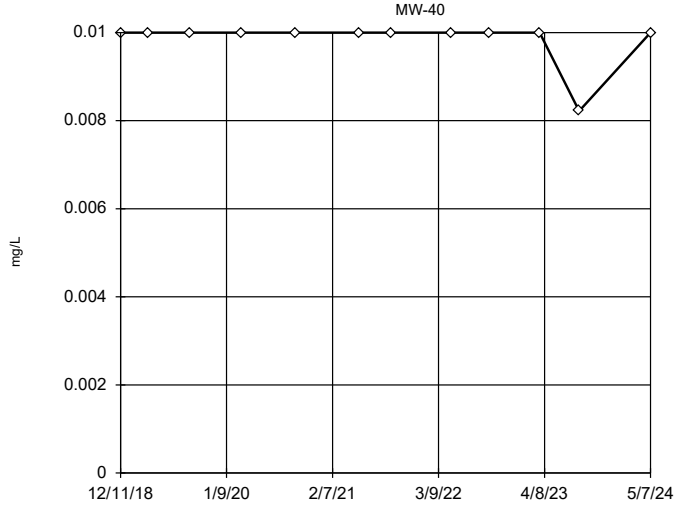
No statistical outliers.

Constituent: Cobalt Analysis Run 12/5/2024 12:04 PM View: 2024AWQR-MW-40_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-40



n = 12

No statistical outliers.

Constituent: Zinc Analysis Run 12/5/2024 12:04 PM View: 2024AWQR-MW-40_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

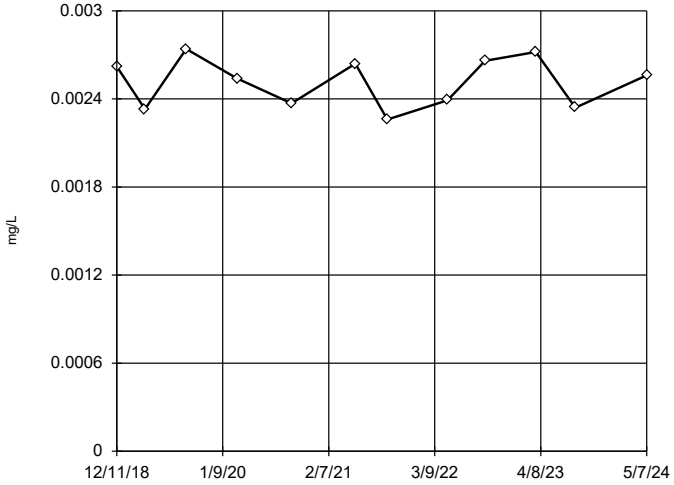
MW-41 BG Outlier Analysis

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 12/5/2024, 12:19 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	MW-41	No	n/a	n/a	EPA/OH	0.05	12	0.002514	0.0001677	normal	ShapiroWilk
Barium (mg/L)	MW-41	No	n/a	n/a	EPA/OH	0.05	12	0.1653	0.005821	normal	ShapiroWilk
Cadmium (mg/L)	**MW-41**	**Yes**	**0.00025,0.00025**	**12/11/2018,3/26/2019**	**OH**	**NaN**	**12**	**0.00009233**	**0.00007604**	**n/a**	**n/a**
Chromium (mg/L)	MW-41	No	n/a	n/a	OH	NaN	12	0.002518	0.0007235	n/a	n/a
Cobalt (mg/L)	MW-41	No	n/a	n/a	EPA/OH	0.05	12	0.0004158	0.00005846	normal	ShapiroWilk
Lead (mg/L)	**MW-41**	**Yes**	**0.000869,0.000838**	**12/11/2018,4/26/2022**	**NP (nrm)/OH**	**NaN**	**12**	**0.0003593**	**0.0002372**	**unknown**	**ShapiroWilk**

EPA Screening (suspected outliers for Dixon's Test)

MW-41



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.002514, std. dev. 0.0001677, critical Tn 2.285

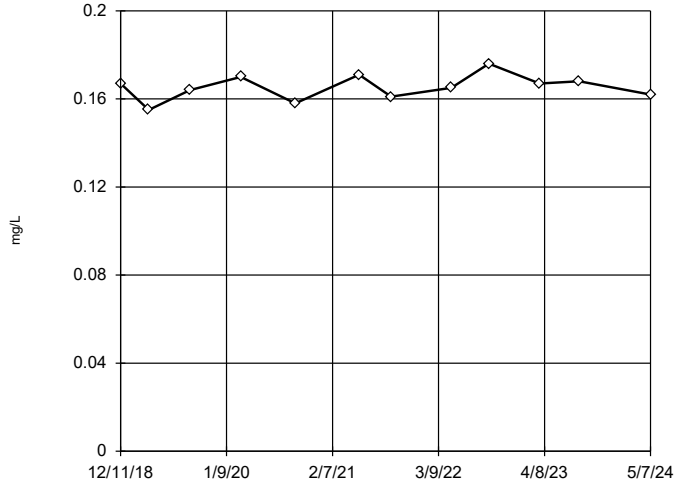
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9152
Critical = 0.805
The distribution was found to be normally distributed.

Constituent: Arsenic Analysis Run 12/5/2024 12:18 PM View: 2024AWQR-MW-41_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-41



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.1653, std. dev. 0.005821, critical Tn 2.285

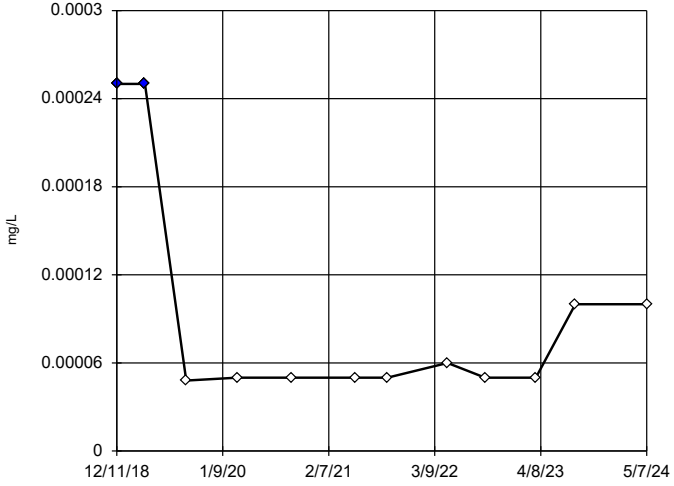
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9914
Critical = 0.805
The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 12/5/2024 12:18 PM View: 2024AWQR-MW-41_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-41



n = 12

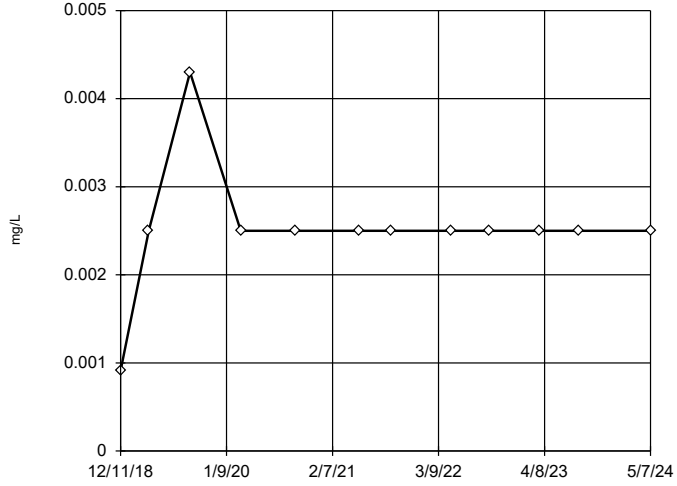
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Cadmium Analysis Run 12/5/2024 12:18 PM View: 2024AWQR-MW-41_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-41

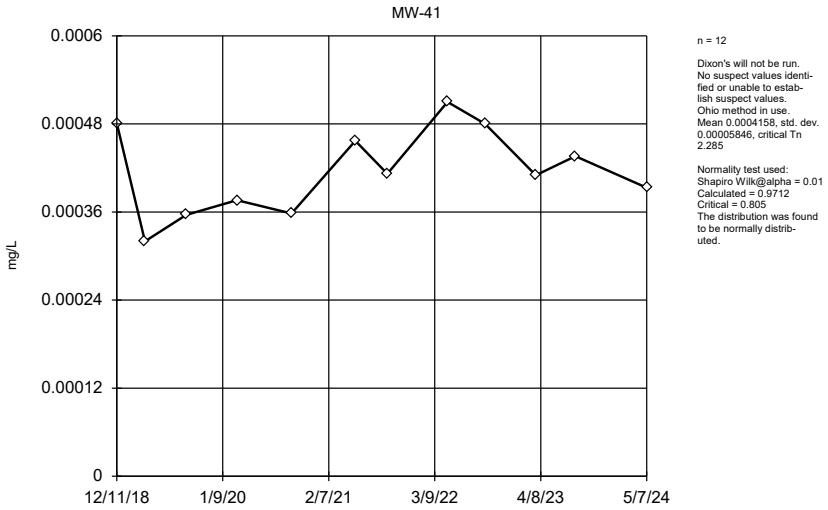


n = 12

No statistical outliers.

Constituent: Chromium Analysis Run 12/5/2024 12:18 PM View: 2024AWQR-MW-41_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

EPA Screening (suspected outliers for Dixon's Test)



n = 12

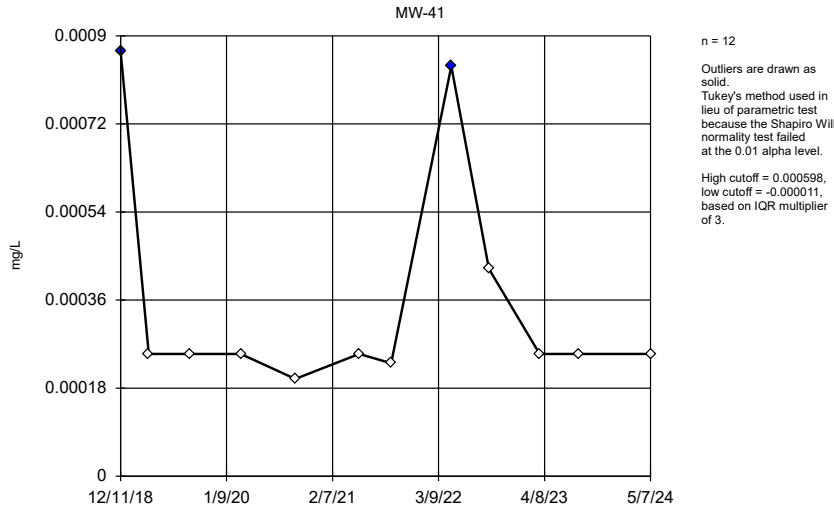
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0004158, std. dev. 0.00005846, critical Tn 2.285

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9712
Critical = 0.805
The distribution was found to be normally distributed.

Constituent: Cobalt Analysis Run 12/5/2024 12:18 PM View: 2024AWQR-MW-41_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm



n = 12

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.000598, low cutoff = -0.000011, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 12/5/2024 12:18 PM View: 2024AWQR-MW-41_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

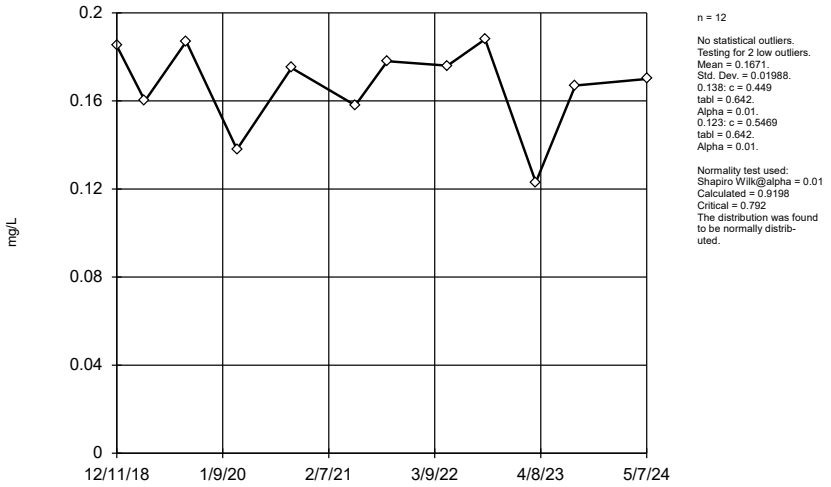
MW-42 BG Outlier Analysis

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 12/5/2024, 12:47 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	MW-42	No	n/a	n/a	Dixon/OH	0.01	12	0.1671	0.01988	normal	ShapiroWilk
Chromium (mg/L)	MW-42	No	n/a	n/a	OH	NaN	12	0.002431	0.0002396	n/a	n/a
Cobalt (mg/L)	MW-42	No	n/a	n/a	NP (nrm)/OH	NaN	12	0.0002216	0.0000754	unknown	ShapiroWilk
Lead (mg/L)	**MW-42**	**Yes**	**0.00115**	**8/27/2019**	**OH**	**NaN**	**12**	**0.0003778**	**0.0003055**	**n/a**	**n/a**
Nickel (mg/L)	MW-42	No	n/a	n/a	OH	NaN	12	0.002432	0.0002338	n/a	n/a
Selenium (mg/L)	MW-42	No	n/a	n/a	EPA/OH	0.05	12	0.00169	0.0004571	normal	ShapiroWilk
Vanadium (mg/L)	MW-42	No	n/a	n/a	OH	NaN	12	0.002345	0.0005381	n/a	n/a

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-42



n = 12

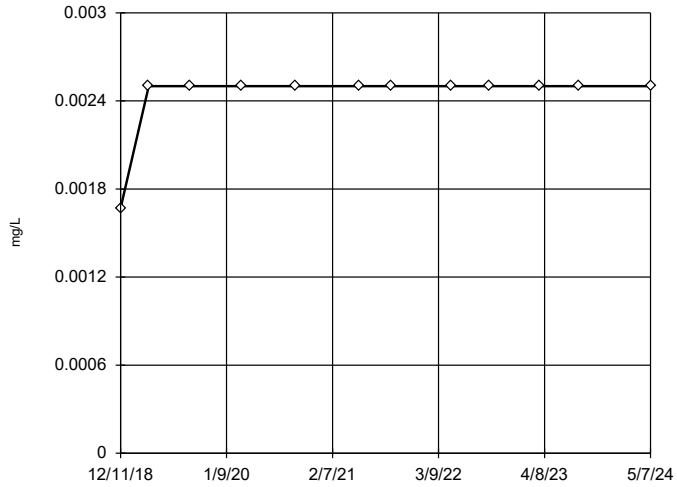
No statistical outliers.
Testing for 2 low outliers.
Mean = 0.1671.
Std. Dev. = 0.01988.
0.138: c = 0.449
tabl = 0.642.
Alpha = 0.01.
0.123: c = 0.5469
tabl = 0.642.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9198
Critical = 0.792
The distribution was found to be normally distrib-uted.

Constituent: Barium Analysis Run 12/5/2024 12:46 PM View: 2024AWQR-MW-42_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Ohio EPA 0715 Outlier Algorithm

MW-42



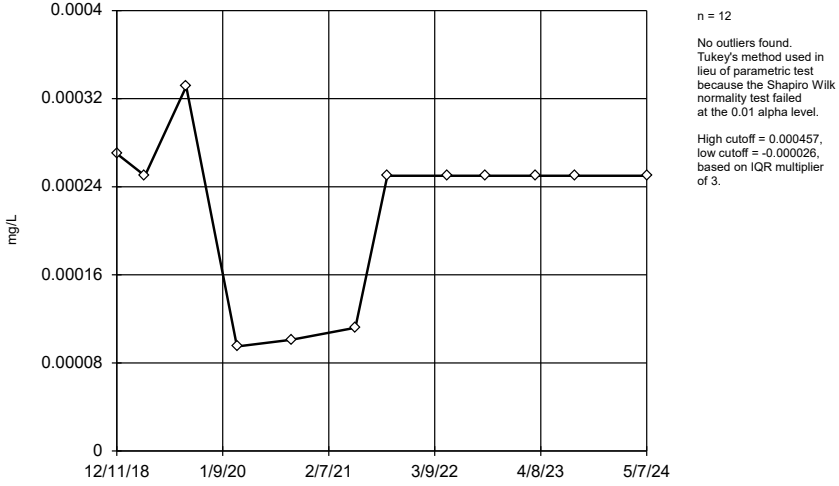
n = 12

No statistical outliers.

Constituent: Chromium Analysis Run 12/5/2024 12:46 PM View: 2024AWQR-MW-42_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-42



n = 12

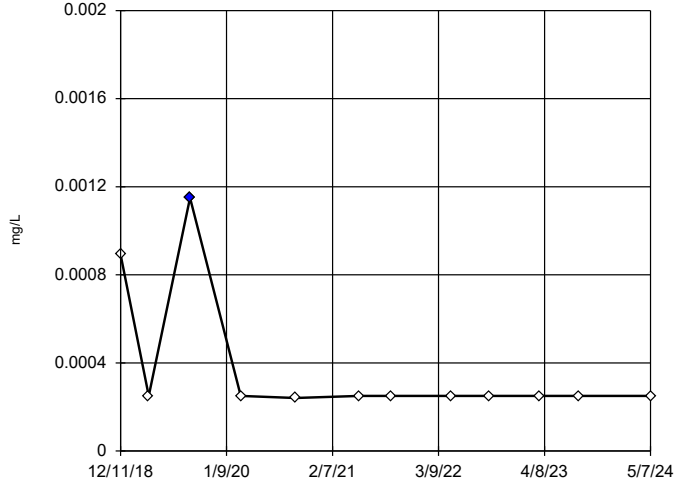
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.000457, low cutoff = -0.000026, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 12/5/2024 12:46 PM View: 2024AWQR-MW-42_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Ohio EPA 0715 Outlier Algorithm

MW-42



n = 12

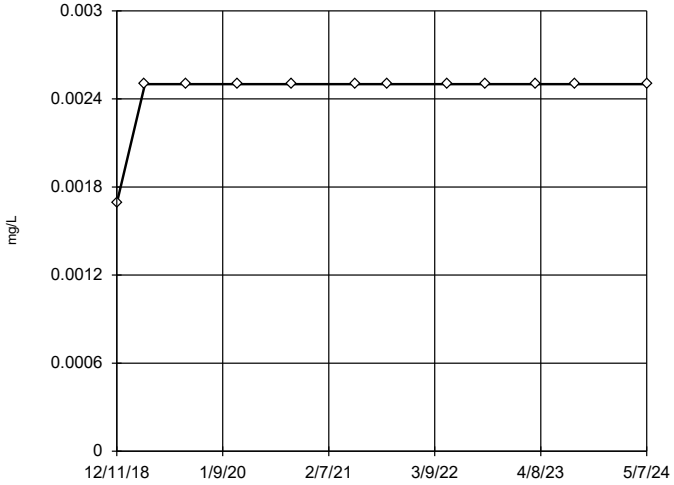
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.7049
Critical = 0.805
The distribution, after removal of suspect val-ue, was found to be nor-mally distributed.

Constituent: Lead Analysis Run 12/5/2024 12:46 PM View: 2024AWQR-MW-42_Outliers
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Ohio EPA 0715 Outlier Algorithm

MW-42



n = 12

No statistical outliers.

Constituent: Nickel Analysis Run 12/5/2024 12:46 PM View: 2024AWQR-MW-42_Outliers

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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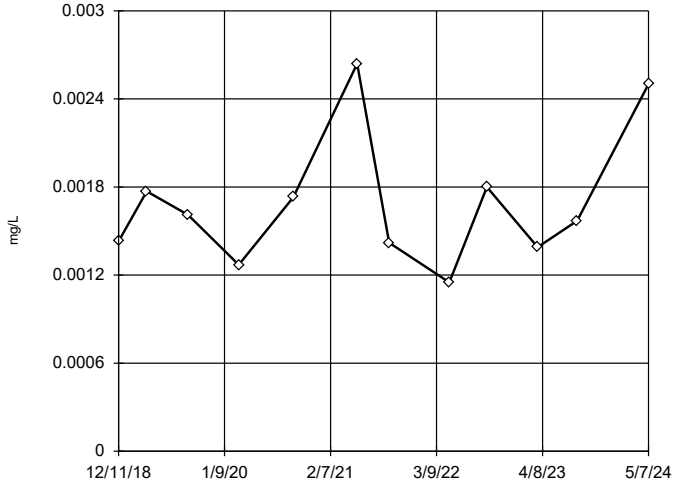
EPA Screening (suspected outliers for Dixon's Test)

MW-42



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.00169, std. dev. 0.0004571, critical Tn 2.285

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8595
Critical = 0.805
The distribution was found to be normally distributed.

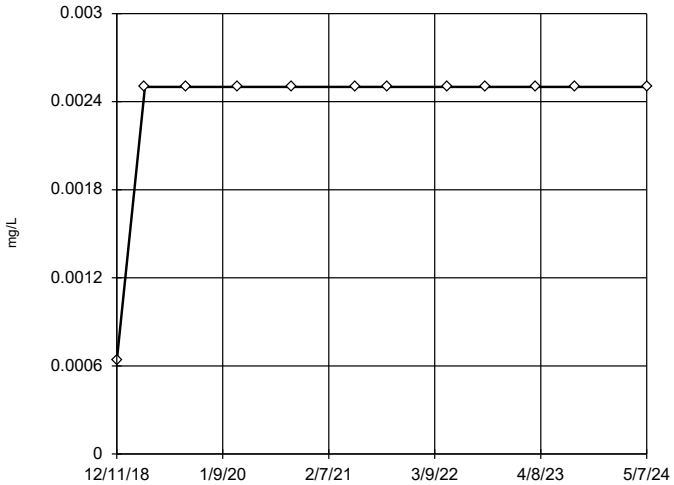
Constituent: Selenium Analysis Run 12/5/2024 12:46 PM View: 2024AWQR-MW-42_Outliers

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

MW-42



n = 12

No statistical outliers.

Constituent: Vanadium Analysis Run 12/5/2024 12:46 PM View: 2024AWQR-MW-42_Outliers

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Interwell Prediction Limit

Water Table Aquifer

Interwell Prediction Limit

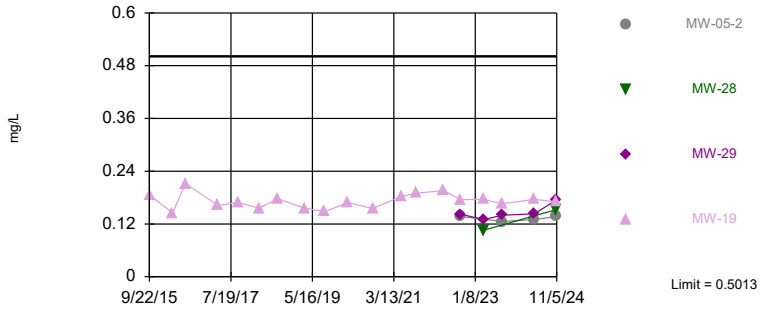
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 12/5/2024, 9:47 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Barium (mg/L)	MW-05-2	0.5013	n/a	11/5/2024	0.137	No	17	0	ln(x)	0.000532	Param Inter 1 of 2
Barium (mg/L)	MW-28	0.5013	n/a	11/5/2024	0.153	No	17	0	ln(x)	0.000532	Param Inter 1 of 2
Barium (mg/L)	MW-29	0.5013	n/a	11/5/2024	0.175	No	17	0	ln(x)	0.000532	Param Inter 1 of 2
Barium (mg/L)	MW-19	0.5013	n/a	11/5/2024	0.1705	No	17	0	ln(x)	0.000532	Param Inter 1 of 2
Cadmium (mg/L)	MW-19	0.00025	n/a	11/5/2024	0.000187J	No	17	82.35	n/a	0.005034	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-19	0.000377	n/a	11/5/2024	0.000499J	No	17	70.59	n/a	0.005034	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-28	0.0021	n/a	11/5/2024	0.000564	No	17	76.47	n/a	0.005034	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-19	0.0021	n/a	11/5/2024	0.000829	No	17	76.47	n/a	0.005034	NP Inter (NDs) 1 of 2

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-1.833, Std. Dev.=0.4626, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8513, critical = 0.851. Kappa = 2.469 (c=11, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.004778. Individual comparison alpha = 0.000532. Comparing 4 points to limit. Assumes 5 future values.

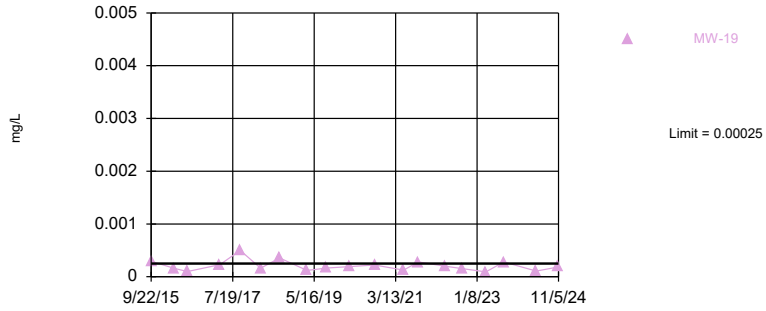
Constituent: Barium Analysis Run 12/5/2024 9:46 AM View: 2024AWQR-Interwell_PL

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 82.35% NDs. Annual per-constituent alpha = 0.08684. Individual comparison alpha = 0.005034 (1 of 2). Assumes 8 future values.

Constituent: Cadmium Analysis Run 12/5/2024 9:46 AM View: 2024AWQR-Interwell_PL

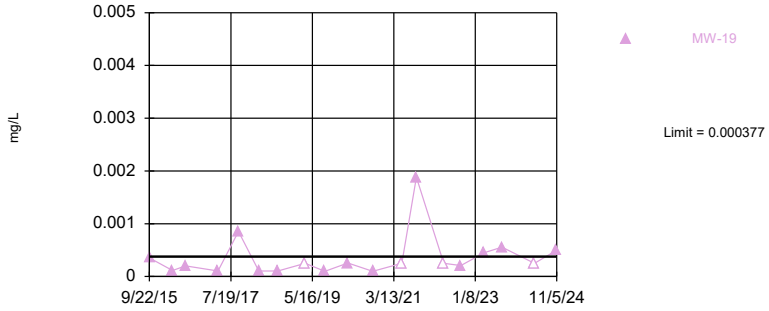
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 70.59% NDs. Annual per-constituent alpha = 0.08684. Individual comparison alpha = 0.005034 (1 of 2). Assumes 8 future values.

Constituent: Cobalt Analysis Run 12/5/2024 9:46 AM View: 2024AWQR-Interwell_PL

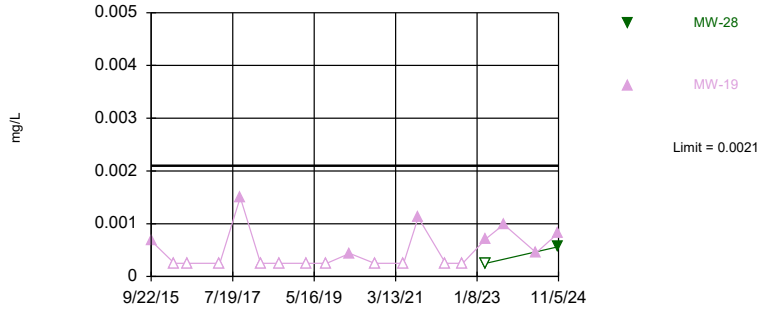
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Annual per-constituent alpha = 0.08684. Individual comparison alpha = 0.005034 (1 of 2). Comparing 2 points to limit. Assumes 7 future values.

Constituent: Lead Analysis Run 12/5/2024 9:46 AM View: 2024AWQR-Interwell_PL

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Intrawell Prediction Limits

Bedrock

MW-39 Intrawell Prediction Limit

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 12/5/2024, 11:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MW-39	0.0031	n/a	11/5/2024	0.001ND	No	12	75	n/a	0.01077	NP Intra (NDs) 1 of 2
Barium (mg/L)	MW-39	0.703	n/a	11/5/2024	0.332	No	12	0	n/a	0.01077	NP Intra (normality) ...
Beryllium (mg/L)	MW-39	0.00208	n/a	11/5/2024	0.0005ND	No	12	83.33	n/a	0.01077	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	MW-39	0.000648	n/a	11/5/2024	0.0001ND	No	12	75	n/a	0.01077	NP Intra (NDs) 1 of 2
Chromium (mg/L)	MW-39	0.01075	n/a	11/5/2024	0.0025ND	No	12	50	sqrt(x)	0.001097	Param Intra 1 of 2
Cobalt (mg/L)	MW-39	0.01093	n/a	11/5/2024	0.000723	No	12	0	No	0.001097	Param Intra 1 of 2
Copper (mg/L)	MW-39	0.0135	n/a	11/5/2024	0.0025ND	No	12	75	n/a	0.01077	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-39	0.0176	n/a	11/5/2024	0.000461J	No	12	8.333	n/a	0.01077	NP Intra (normality) ...
Nickel (mg/L)	MW-39	0.0227	n/a	11/5/2024	0.0025ND	No	12	66.67	n/a	0.01077	NP Intra (NDs) 1 of 2
Selenium (mg/L)	MW-39	0.0025	n/a	11/5/2024	0.0025ND	No	12	83.33	n/a	0.01077	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-39	0.0314	n/a	11/5/2024	0.0025ND	No	12	41.67	n/a	0.01077	NP Intra (normality) ...
Zinc (mg/L)	MW-39	0.0755	n/a	11/5/2024	0.0214	No	12	75	n/a	0.01077	NP Intra (NDs) 1 of 2

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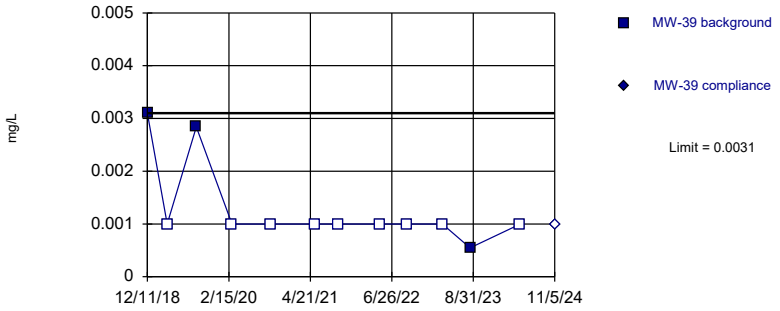
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

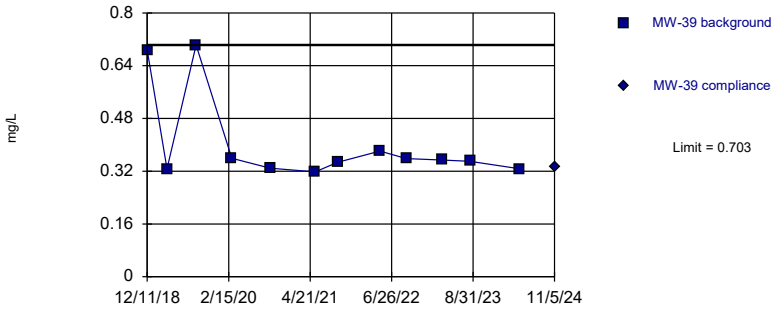
Constituent: Arsenic Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 12 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

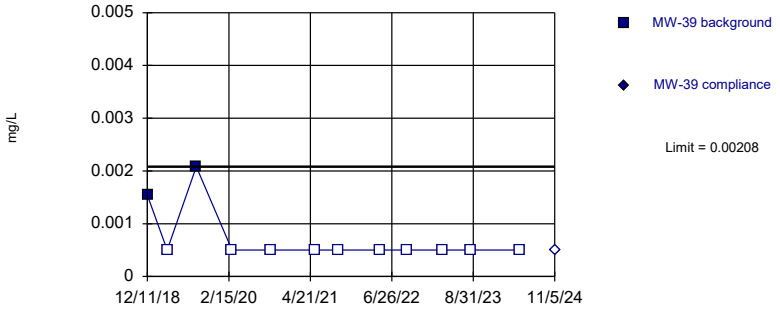
Constituent: Barium Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

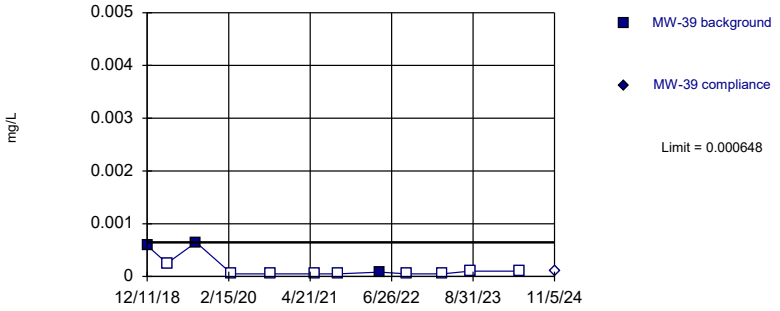
Constituent: Beryllium Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

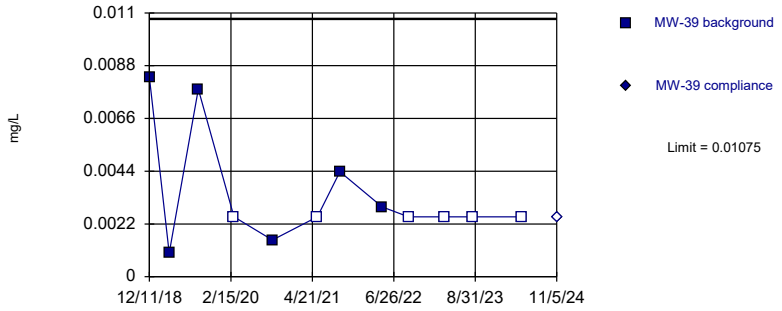
Constituent: Cadmium Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05467, Std. Dev.=0.01996, n=12, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8191, critical = 0.805. Kappa = 2.456 (c=12, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.001097.

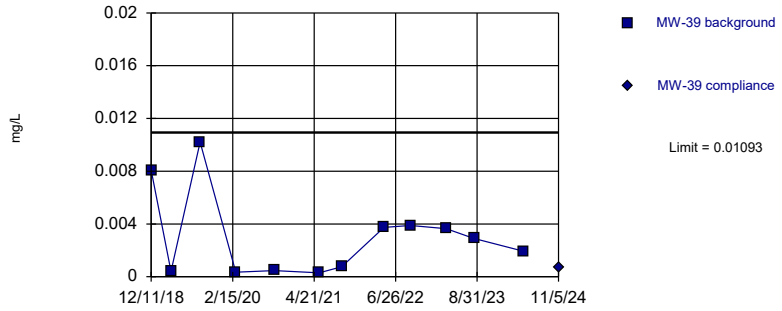
Constituent: Chromium Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.003052, Std. Dev.=0.003207, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8194, critical = 0.805. Kappa = 2.456 (c=12, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.001097.

Constituent: Cobalt Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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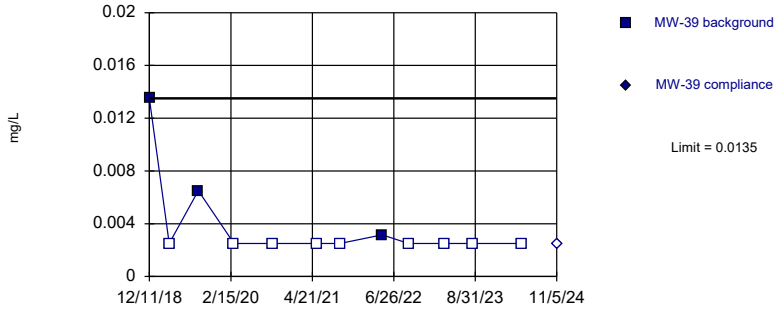
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

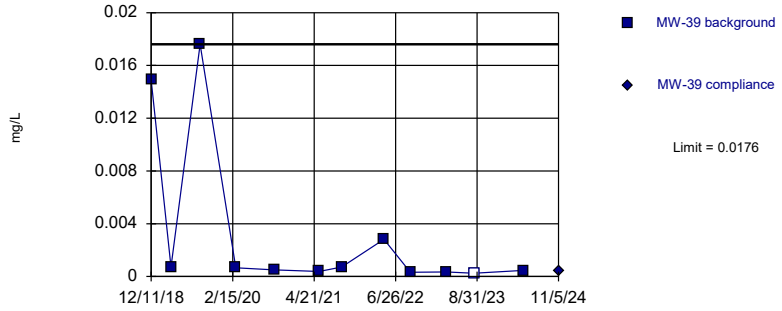
Constituent: Copper Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 12 background values. 8.333% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

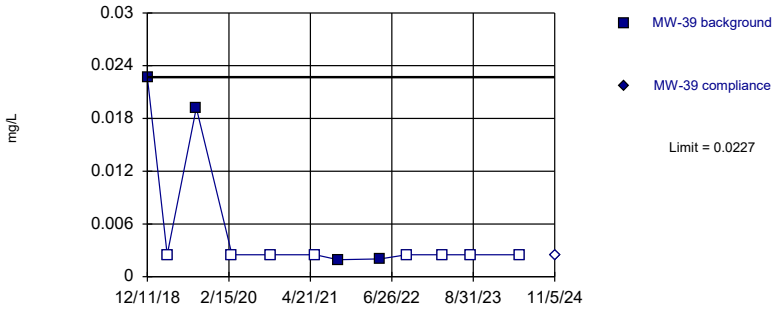
Constituent: Lead Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Nickel Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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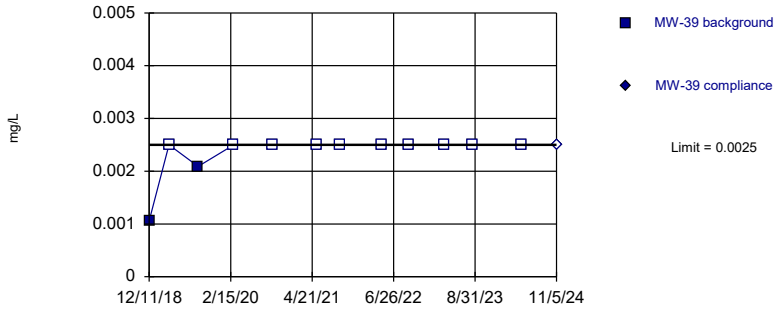
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Selenium Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

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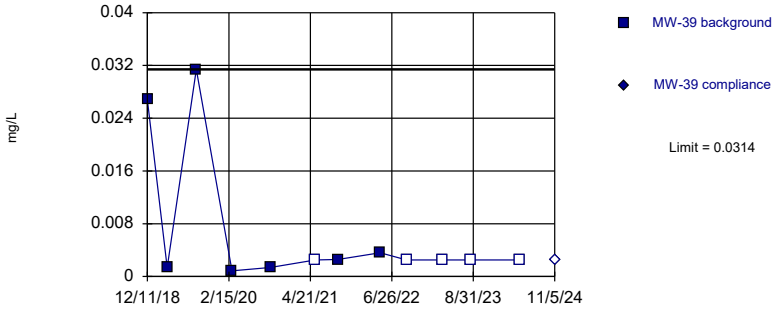
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 12 background values. 41.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

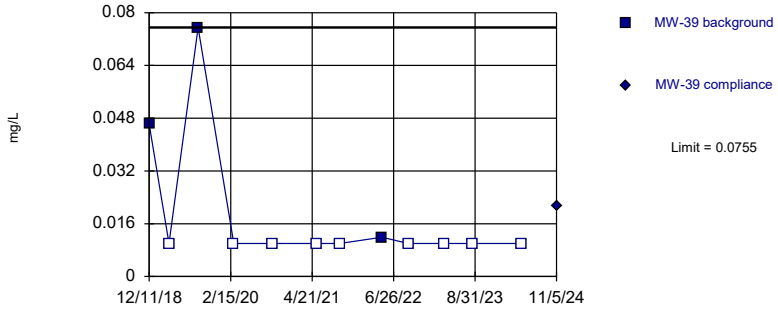
Constituent: Vanadium Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Zinc Analysis Run 12/5/2024 11:08 AM View: 2024AWQR-MW-39_IntraPL
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

MW-40 Intrawell Prediction Limit

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 12/5/2024, 12:22 PM

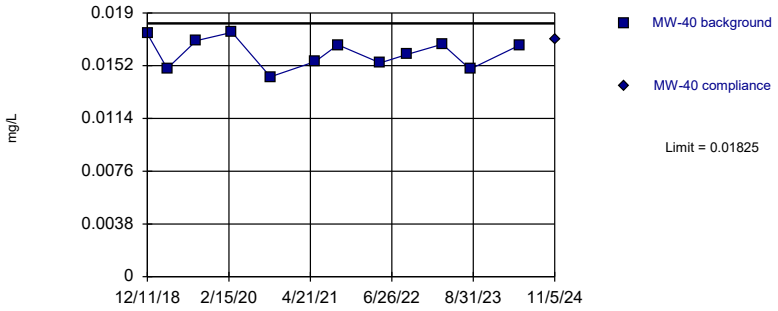
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Barium (mg/L)	MW-40	0.01825	n/a	11/5/2024	0.0171	No	12	0	No	0.003287	Param Intra 1 of 2
Chromium (mg/L)	MW-40	0.0025	n/a	11/5/2024	0.00336J	No	12	91.67	n/a	0.01077	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-40	0.00025	n/a	11/5/2024	0.00025ND	No	12	91.67	n/a	0.01077	NP Intra (NDs) 1 of 2
Zinc (mg/L)	MW-40	0.01	n/a	11/5/2024	0.01ND	No	12	91.67	n/a	0.01077	NP Intra (NDs) 1 of 2

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.01613, Std. Dev.=0.001063, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9378, critical = 0.805. Kappa = 1.997 (c=4, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.003287.

Constituent: Barium Analysis Run 12/5/2024 12:21 PM View: 2024AWQR-MW-40_IntraPL

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

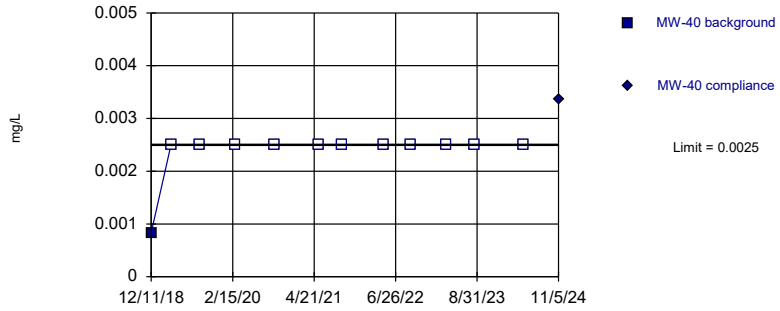
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Chromium Analysis Run 12/5/2024 12:21 PM View: 2024AWQR-MW-40_IntraPL

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

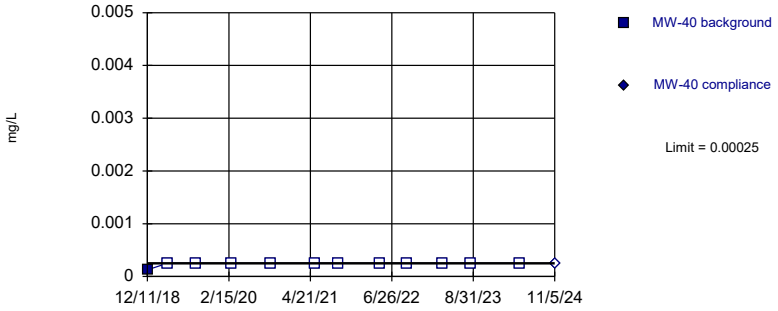
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Cobalt Analysis Run 12/5/2024 12:21 PM View: 2024AWQR-MW-40_IntraPL

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

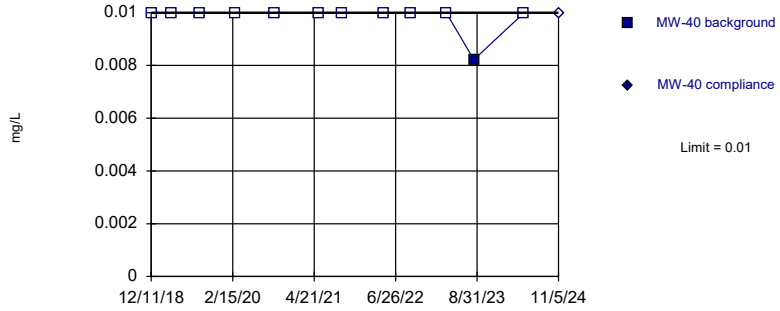
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Zinc Analysis Run 12/5/2024 12:21 PM View: 2024AWQR-MW-40_IntraPL

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

MW-41 Intrawell Prediction Limit

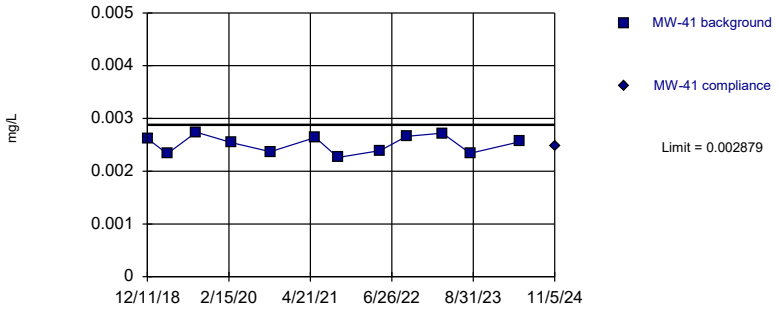
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP Printed 12/5/2024, 12:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MW-41	0.002879	n/a	11/5/2024	0.00248	No	12	0	No	0.002193	Param Intra 1 of 2
Barium (mg/L)	MW-41	0.178	n/a	11/5/2024	0.177	No	12	0	No	0.002193	Param Intra 1 of 2
Cadmium (mg/L)	MW-41	0.00025	n/a	11/5/2024	0.0001ND	No	12	83.33	n/a	0.01077	NP Intra (NDs) 1 of 2
Chromium (mg/L)	MW-41	0.0043	n/a	11/5/2024	0.0025ND	No	12	83.33	n/a	0.01077	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-41	0.000543	n/a	11/5/2024	0.000476J	No	12	0	No	0.002193	Param Intra 1 of 2
Lead (mg/L)	MW-41	0.000869	n/a	11/5/2024	0.000276J	No	12	58.33	n/a	0.01077	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.002514, Std. Dev.=0.0001677, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9152, critical = 0.805. Kappa = 2.176 (c=6, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.002193.

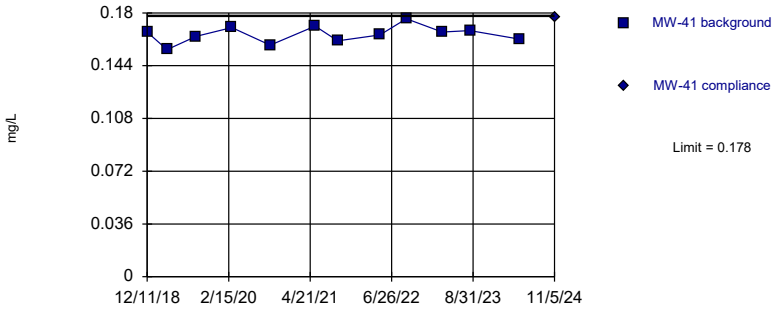
Constituent: Arsenic Analysis Run 12/5/2024 12:41 PM View: 2024AWQR-MW-41_IntraPL

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1653, Std. Dev.=0.005821, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9914, critical = 0.805. Kappa = 2.176 (c=6, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.002193.

Constituent: Barium Analysis Run 12/5/2024 12:41 PM View: 2024AWQR-MW-41_IntraPL

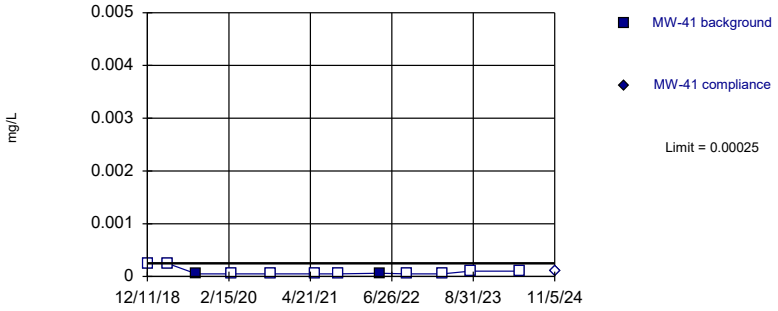
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Cadmium Analysis Run 12/5/2024 12:41 PM View: 2024AWQR-MW-41_IntraPL

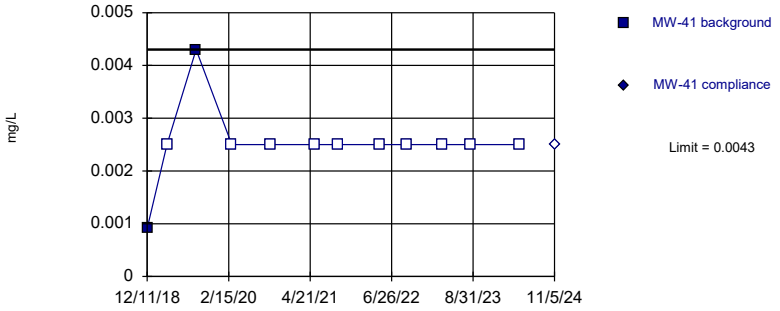
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

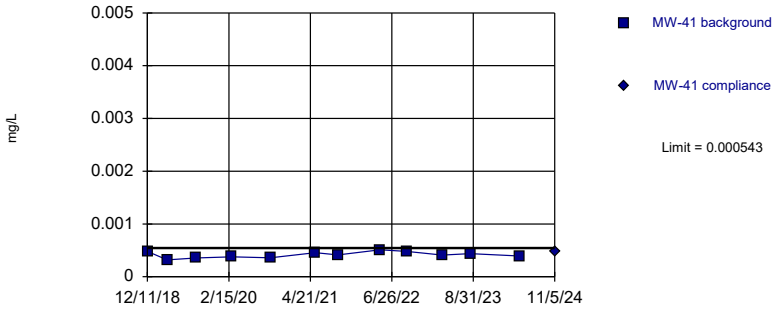
Constituent: Chromium Analysis Run 12/5/2024 12:41 PM View: 2024AWQR-MW-41_IntraPL

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.0004158, Std. Dev.=0.00005846, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9712, critical = 0.805. Kappa = 2.176 (c=6, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.002193.

Constituent: Cobalt Analysis Run 12/5/2024 12:41 PM View: 2024AWQR-MW-41_IntraPL

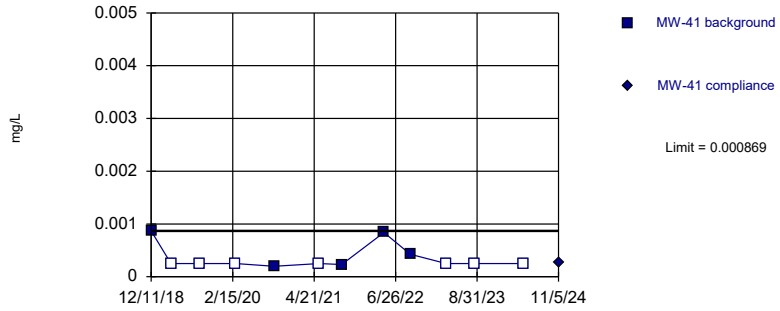
Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 58.33% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Lead Analysis Run 12/5/2024 12:41 PM View: 2024AWQR-MW-41_IntraPL

Clinton County SLF Client: SCS Engineers Data: CCASW ES Sanitas HMSP

Mann-Kendall Summary Table

Water Table Aquifer

Trend Test

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM Printed 12/6/2024, 12:25 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Barium (mg/L)	MW-19	-0.005668	-13	-21	No	8	0	0.01	NP
Cadmium (mg/L)	MW-19	-0.000005398	-3	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-19	0.00001273	3	21	No	8	37.5	0.01	NP
Lead (mg/L)	MW-19	0.00008459	7	21	No	8	37.5	0.01	NP
Nickel (mg/L)	MW-19	-0.001757	-16	-21	No	8	12.5	0.01	NP
Silver (mg/L)	MW-19	0	-1	-21	No	8	87.5	0.01	NP
Thallium (mg/L)	MW-19	0	3	21	No	8	75	0.01	NP

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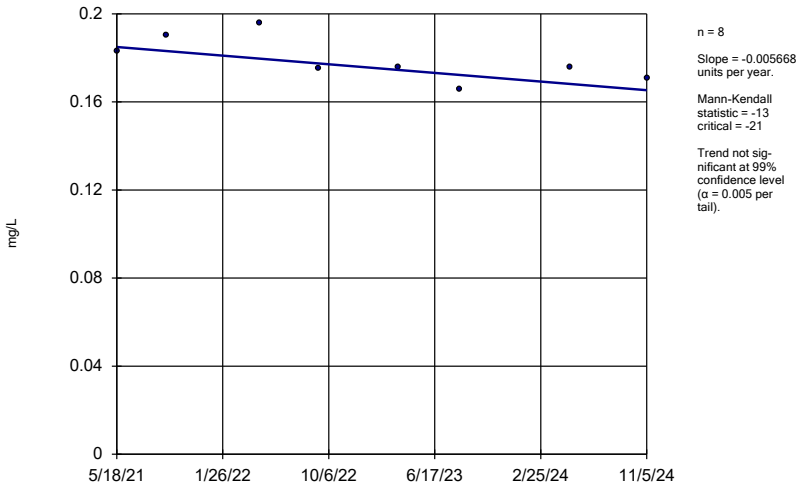
Sen's Slope Estimator

MW-19



Constituent: Barium Analysis Run 12/6/2024 12:23 AM View: 2024AWQR-Mann_Kendall

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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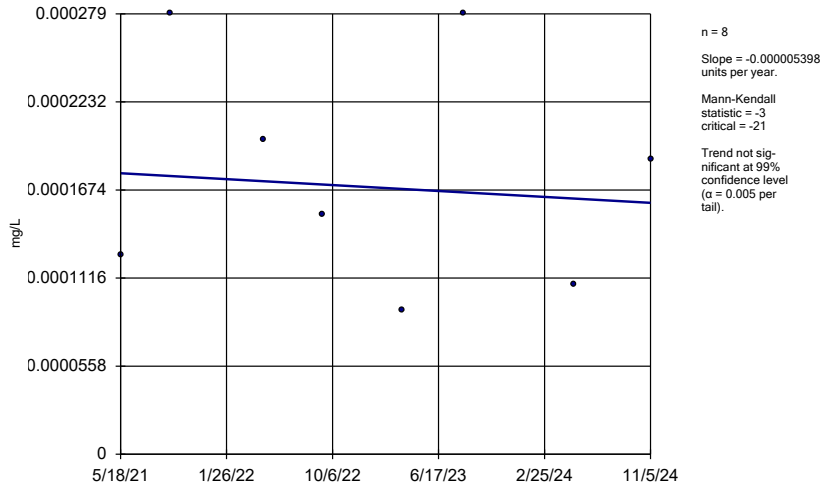
Sen's Slope Estimator

MW-19



Constituent: Cadmium Analysis Run 12/6/2024 12:23 AM View: 2024AWQR-Mann_Kendall

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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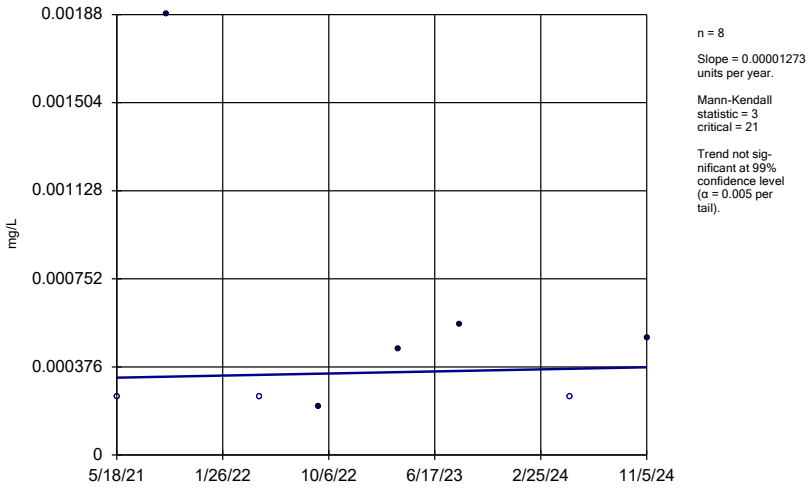
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19



Constituent: Cobalt Analysis Run 12/6/2024 12:23 AM View: 2024AWQR-Mann_Kendall

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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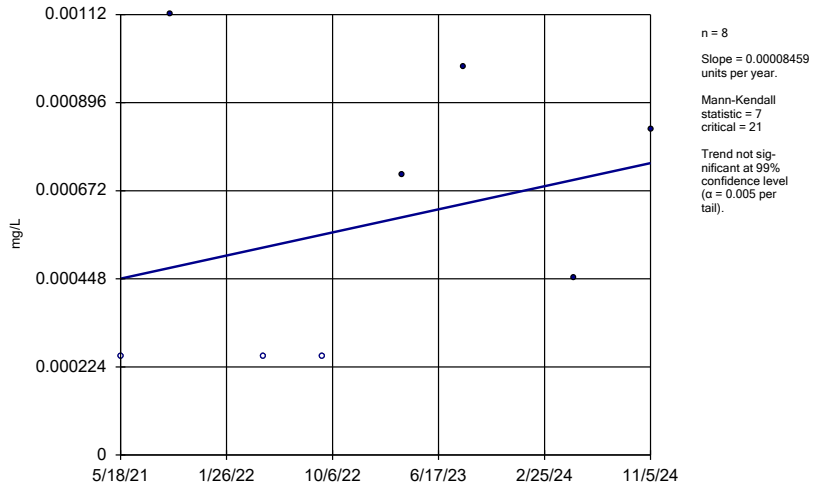
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19



Constituent: Lead Analysis Run 12/6/2024 12:23 AM View: 2024AWQR-Mann_Kendall

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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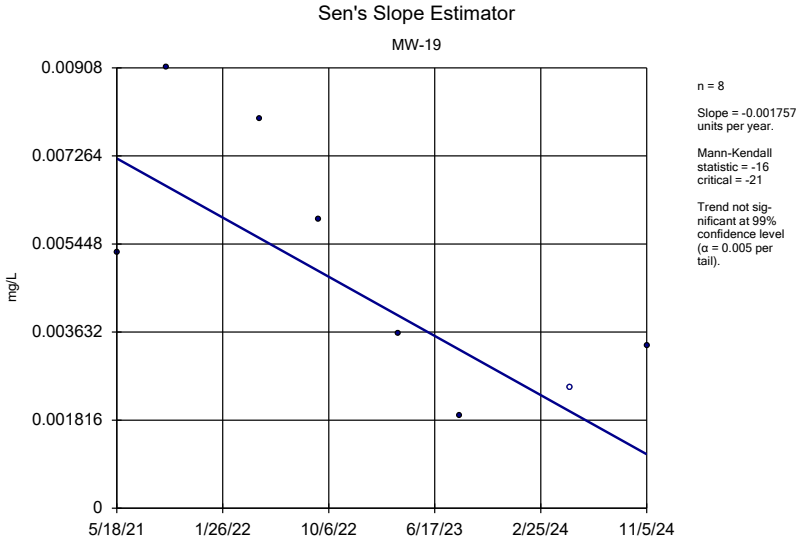
Hollow symbols indicate censored values.



Constituent: Nickel Analysis Run 12/6/2024 12:23 AM View: 2024AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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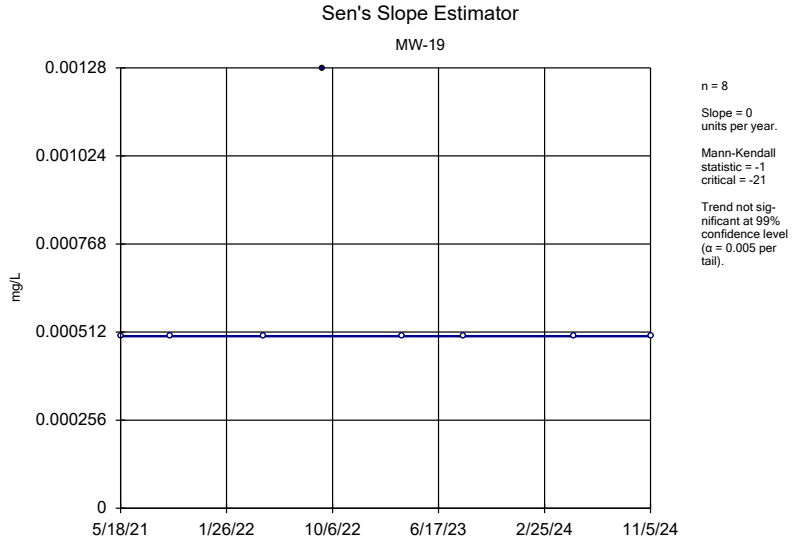
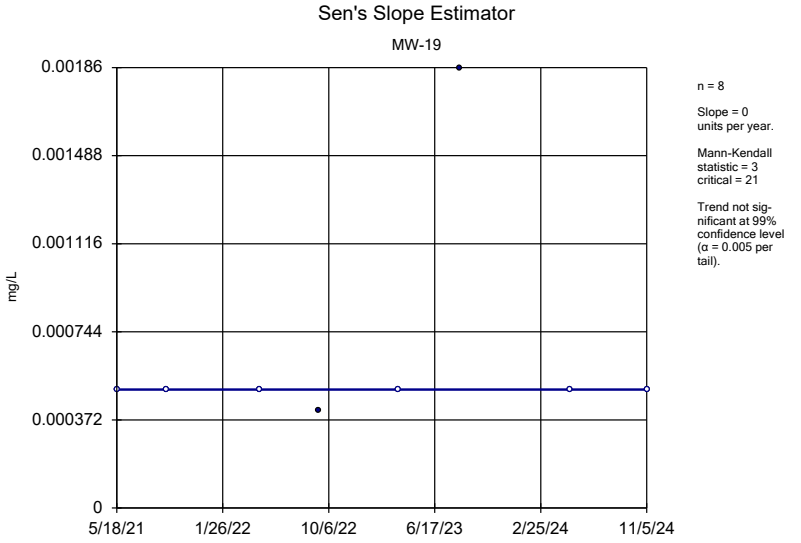
Hollow symbols indicate censored values.



Constituent: Silver Analysis Run 12/6/2024 12:23 AM View: 2024AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.



Constituent: Thallium Analysis Run 12/6/2024 12:23 AM View: 2024AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

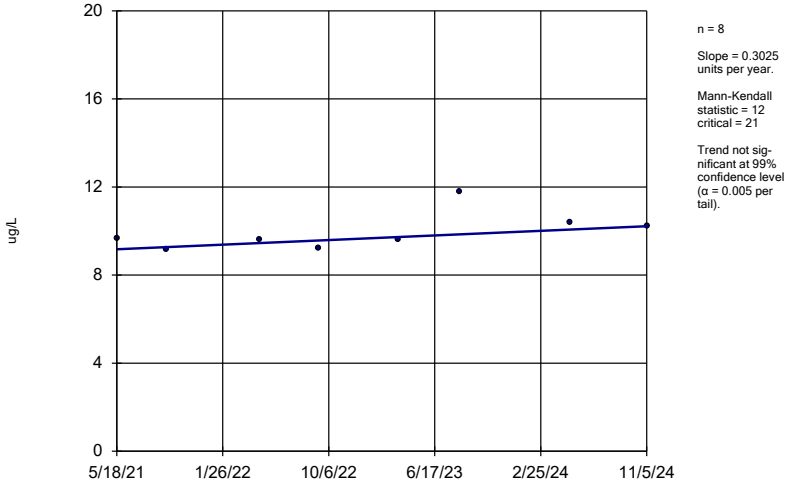
Source Trend Test

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM Printed 12/6/2024, 1:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-20	0.3025	12	21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	MW-24	-0.4377	-12	-21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	MW-90-11	-0.1762	-10	-21	No	8	0	0.01	NP
1,2-Dichloropropane (ug/L)	**MW-24**	**-0.1859**	**-24**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
2,4-D [2C] (ug/L)	MW-33	-0.04741	-10	-21	No	8	62.5	0.01	NP
3/4-Methylphenol (ug/L)	MW-33	-0.291	-7	-21	No	8	50	0.01	NP
Acetone (ug/L)	MW-33	-0.298	-7	-21	No	8	37.5	0.01	NP
Arsenic (mg/L)	MW-20	0.0009231	6	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-24	0.0001503	2	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-32	0.001145	4	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-33	-0.0004793	-4	-21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-90-11	0.00006356	0	21	No	8	0	0.01	NP
Barium (mg/L)	MW-20	0.1041	16	21	No	8	0	0.01	NP
Barium (mg/L)	MW-24	0.0006753	0	21	No	8	0	0.01	NP
Barium (mg/L)	MW-32	-0.02401	-10	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-33	-0.01462	-14	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-90-11	0.005456	6	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-20	0.0436	10	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-24	0.1107	6	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-32	0.005477	0	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-33	-0.009714	-3	-21	No	8	25	0.01	NP
Cadmium (mg/L)	MW-20	0	4	21	No	8	87.5	0.01	NP
Cadmium (mg/L)	MW-33	0.00002344	19	21	No	8	75	0.01	NP
Chlorobenzene (ug/L)	MW-32	-0.06933	-4	-21	No	8	12.5	0.01	NP
Chlorobenzene (ug/L)	MW-90-11	-0.2858	-1	-21	No	8	0	0.01	NP
Chloroethane (ug/L)	**MW-20**	**-1.576**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Chloroethane (ug/L)	MW-24	-0.4317	-10	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-20	0.1845	12	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-24	-0.514	-16	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-32	-0.3813	-18	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-90-11	-0.2722	-8	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-20	-0.0002268	-2	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-24	0.0002074	3	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-32	-0.003376	-16	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-33	-0.001702	-8	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-90-11	-0.00002968	0	21	No	8	0	0.01	NP
Lead (mg/L)	MW-24	0	5	21	No	8	75	0.01	NP
Lead (mg/L)	MW-32	-0.000005489	-6	-21	No	8	50	0.01	NP
Lead (mg/L)	MW-33	-0.000006482	-3	-21	No	8	37.5	0.01	NP
Lead (mg/L)	MW-90-11	0	3	21	No	8	87.5	0.01	NP
Nickel (mg/L)	MW-20	0.0002123	2	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-24	0.0002818	5	21	No	8	37.5	0.01	NP
Nickel (mg/L)	MW-32	-0.00424	-20	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-33	-0.0009054	-6	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-90-11	0.0003471	10	21	No	8	0	0.01	NP
Thallium (mg/L)	MW-90-11	0	5	21	No	8	75	0.01	NP
Vinyl chloride (ug/L)	MW-20	-0.0499	-6	-21	No	8	12.5	0.01	NP
Vinyl chloride (ug/L)	MW-24	-0.411	-14	-21	No	8	12.5	0.01	NP

Sen's Slope Estimator

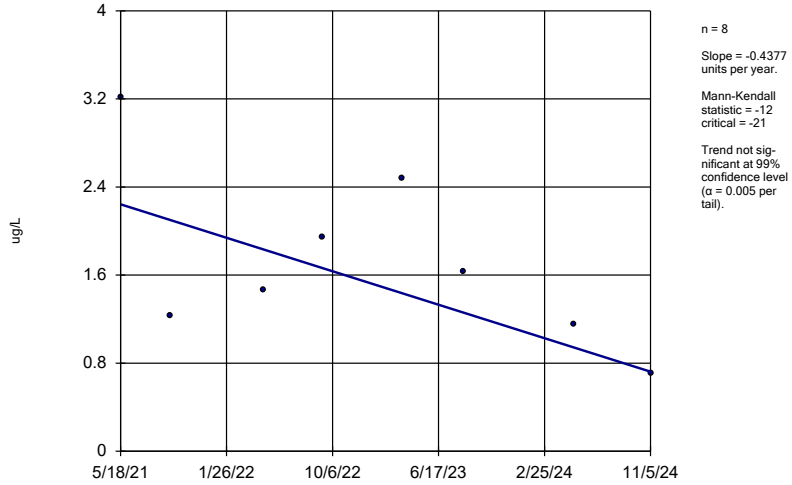
MW-20



Constituent: 1,1-Dichloroethane Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Sour
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sen's Slope Estimator

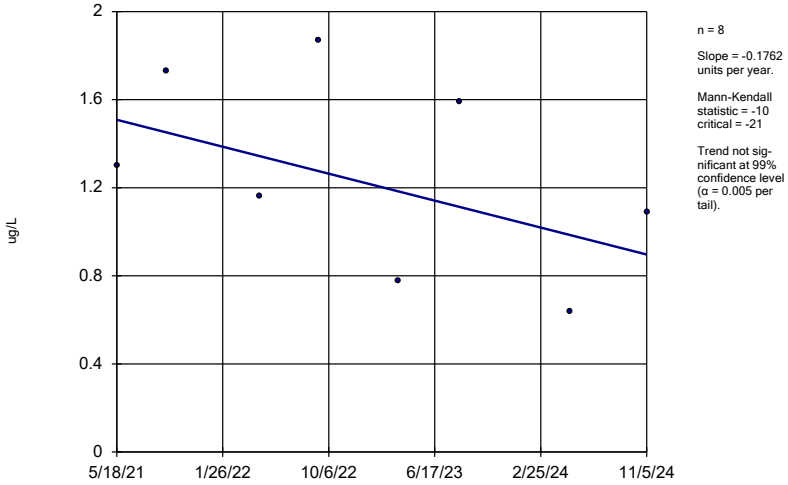
MW-24



Constituent: 1,1-Dichloroethane Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Sour
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sen's Slope Estimator

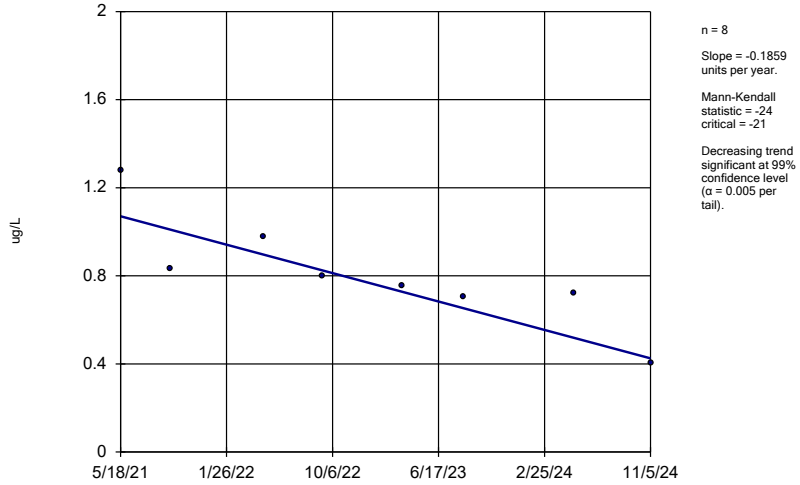
MW-90-11



Constituent: 1,1-Dichloroethane Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Sour
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sen's Slope Estimator

MW-24



Constituent: 1,2-Dichloropropane Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Sou
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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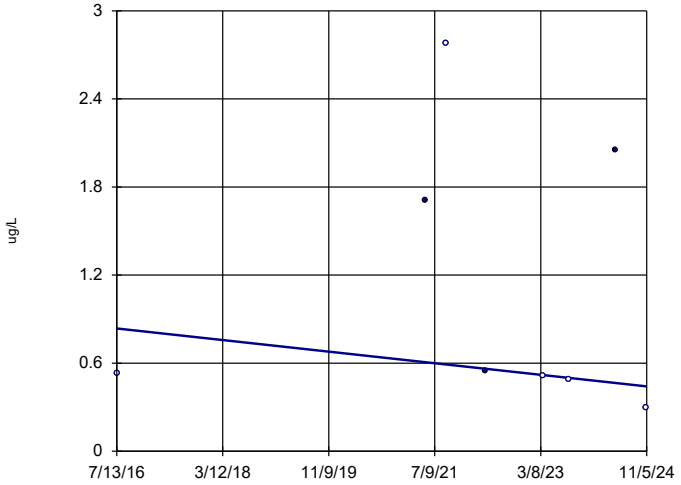
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33



n = 8

Slope = -0.04741 units per year.

Mann-Kendall statistic = -10
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 2,4-D [2C] Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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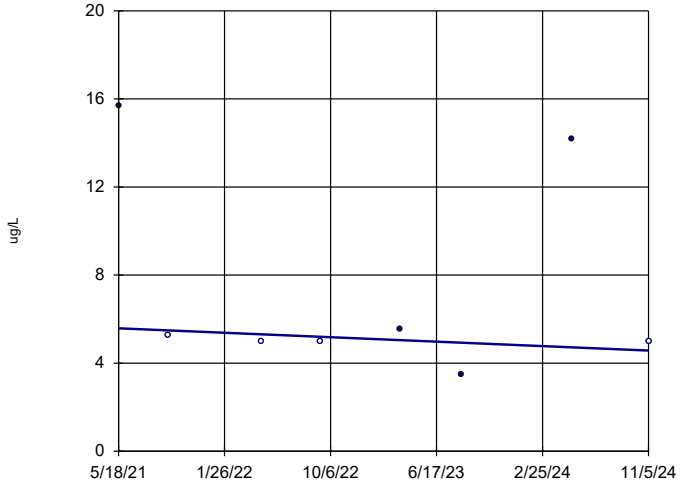
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33



n = 8

Slope = -0.291 units per year.

Mann-Kendall statistic = -7
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 3/4-Methylphenol Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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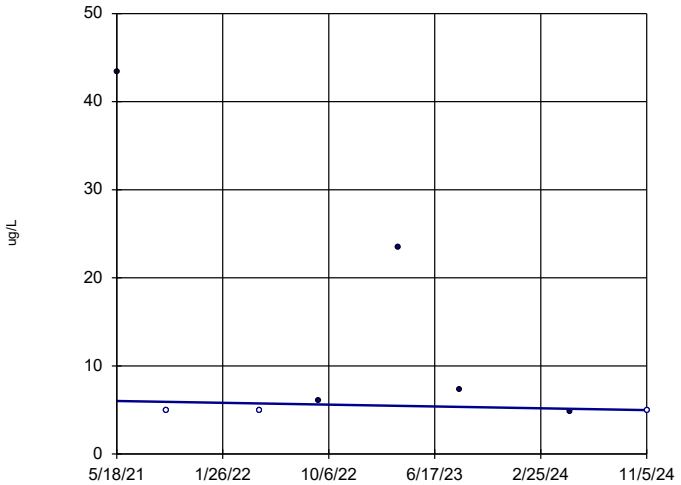
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33



n = 8

Slope = -0.298 units per year.

Mann-Kendall statistic = -7
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Acetone Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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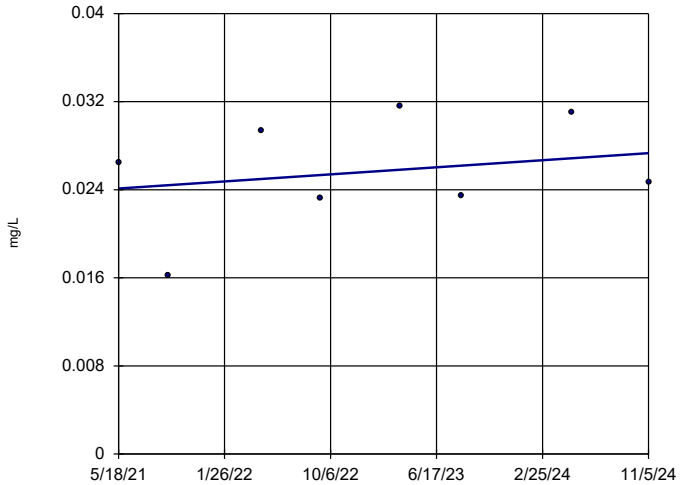
Sen's Slope Estimator

MW-20



n = 8

Slope = 0.0009231 units per year.

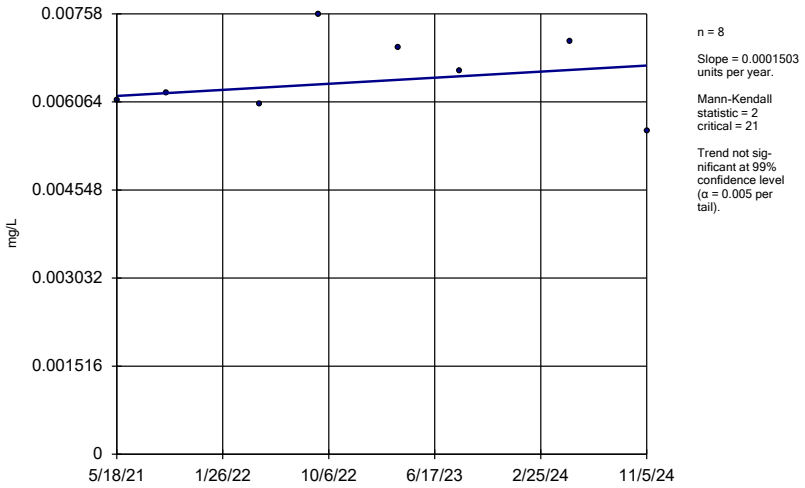
Mann-Kendall statistic = 6
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sen's Slope Estimator

MW-24



Constituent: Arsenic Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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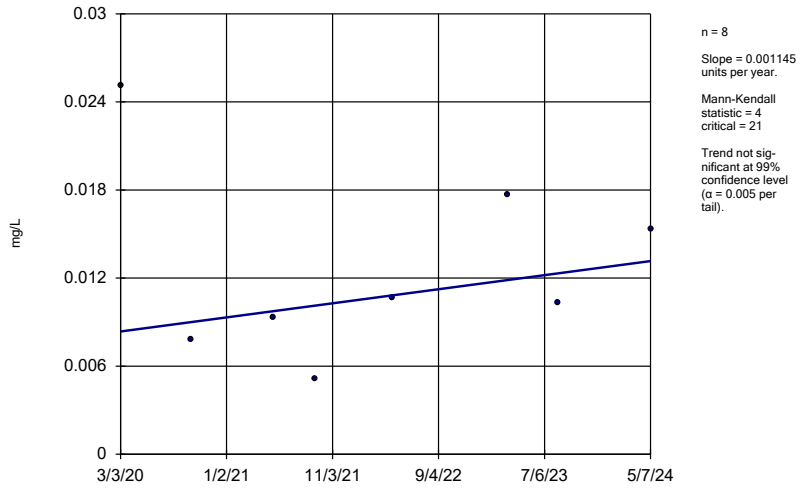
Sen's Slope Estimator

MW-32



Constituent: Arsenic Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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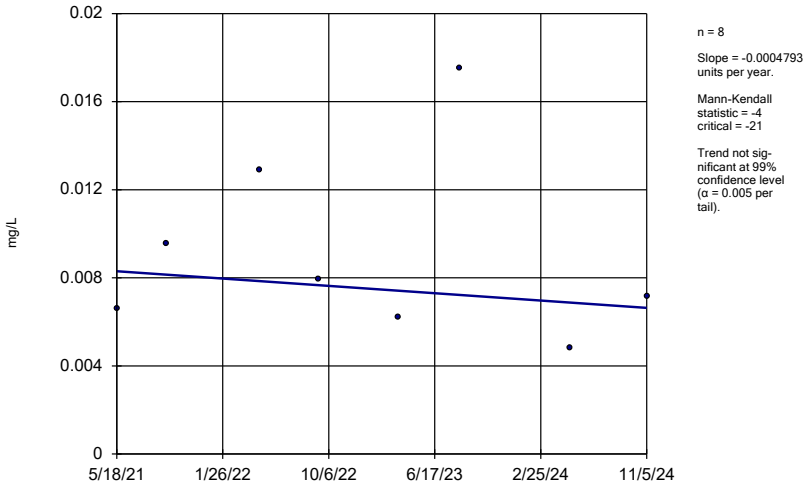
Sen's Slope Estimator

MW-33



Constituent: Arsenic Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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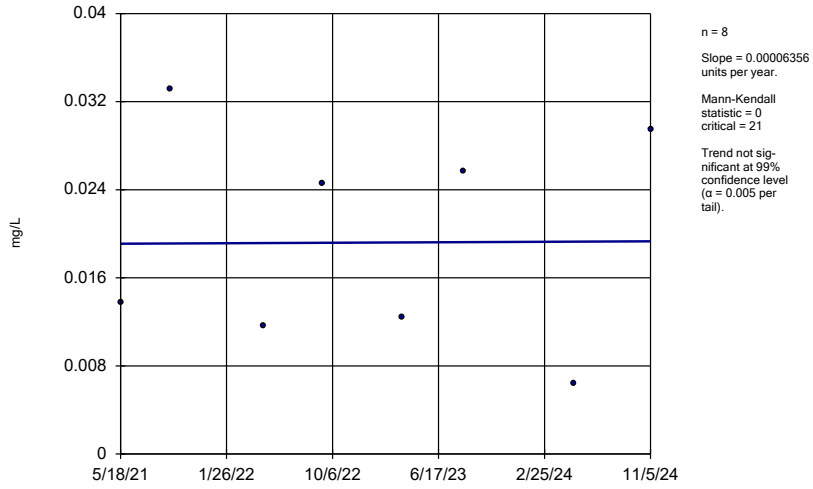
Sen's Slope Estimator

MW-90-11

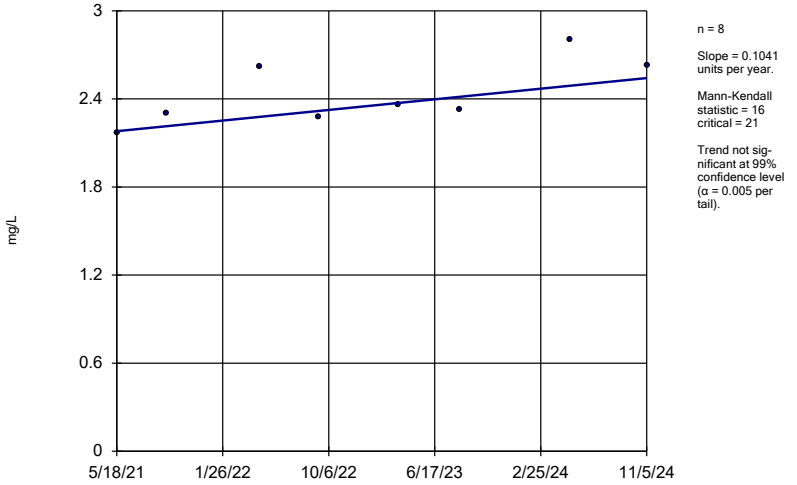


Constituent: Arsenic Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sen's Slope Estimator

MW-20



n = 8

Slope = 0.1041 units per year.

Mann-Kendall statistic = 16
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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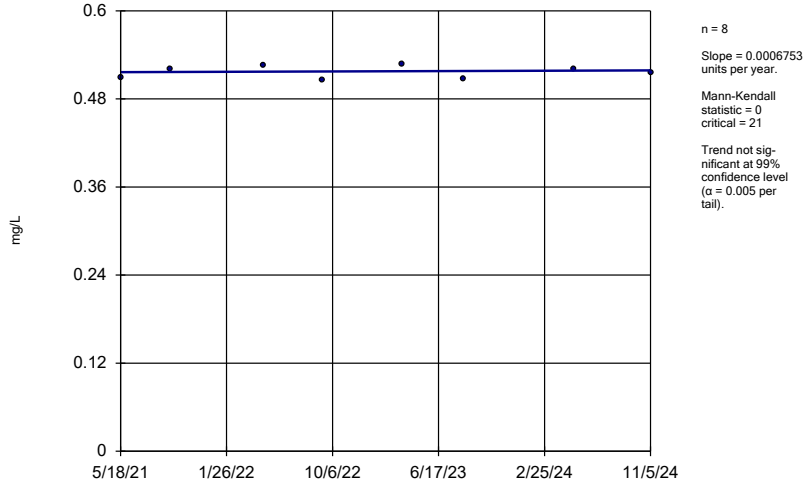
Sen's Slope Estimator

MW-24



n = 8

Slope = 0.0006753 units per year.

Mann-Kendall statistic = 0
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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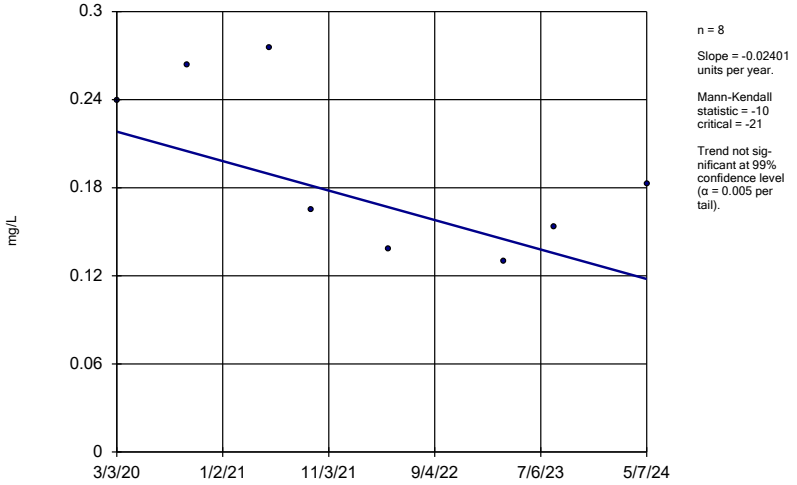
Sen's Slope Estimator

MW-32



n = 8

Slope = -0.02401 units per year.

Mann-Kendall statistic = -10
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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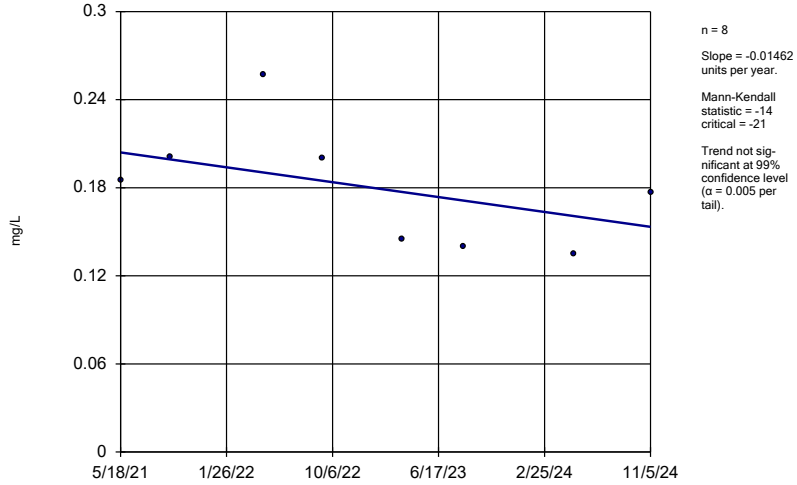
Sen's Slope Estimator

MW-33



n = 8

Slope = -0.01462 units per year.

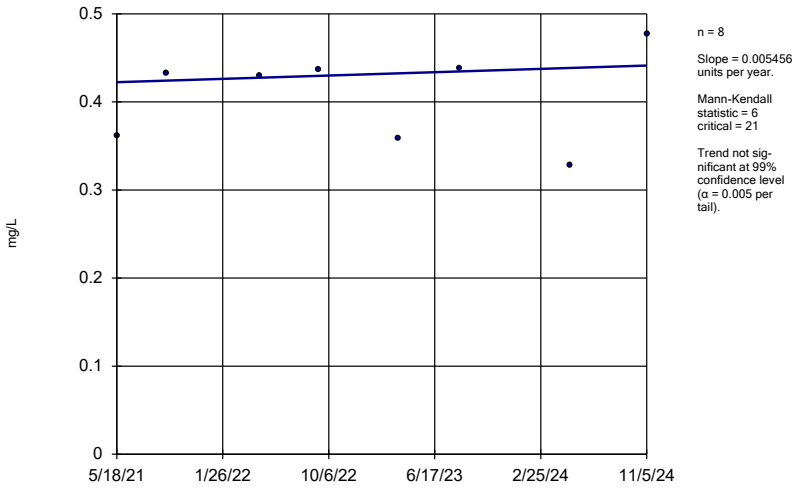
Mann-Kendall statistic = -14
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sen's Slope Estimator

MW-90-11



Constituent: Barium Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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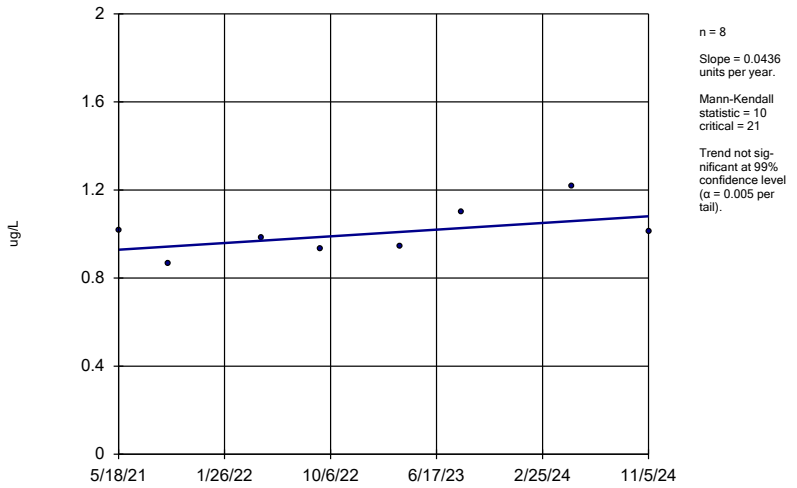
Sen's Slope Estimator

MW-20

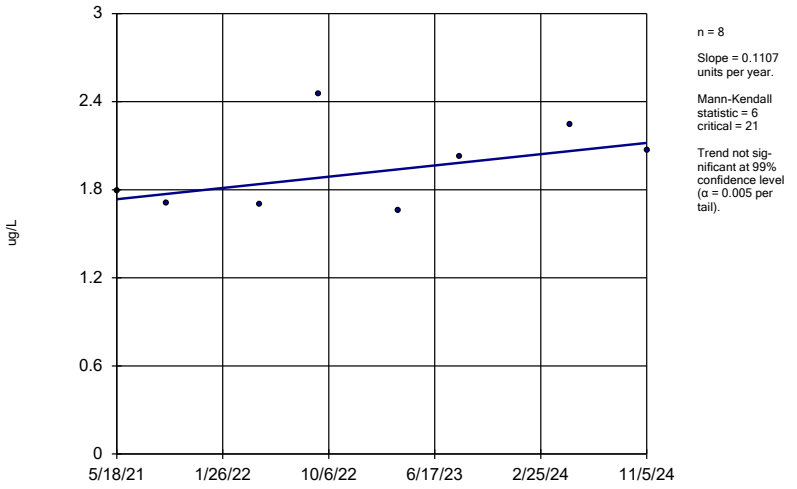


Constituent: Benzene Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



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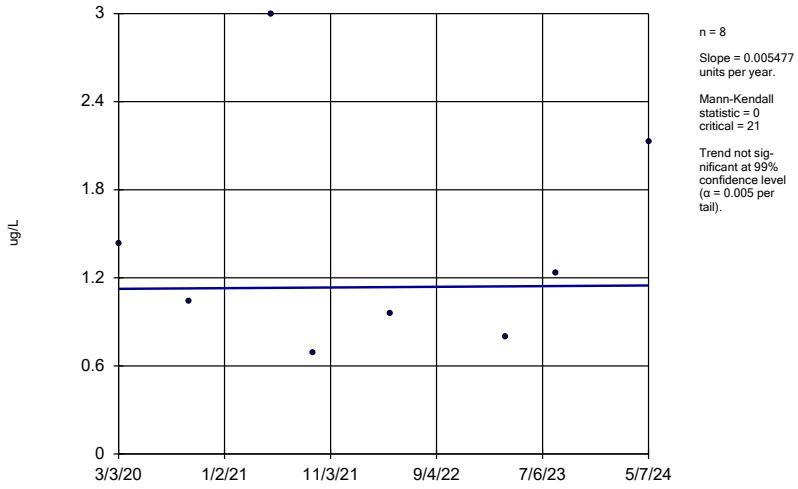
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-32



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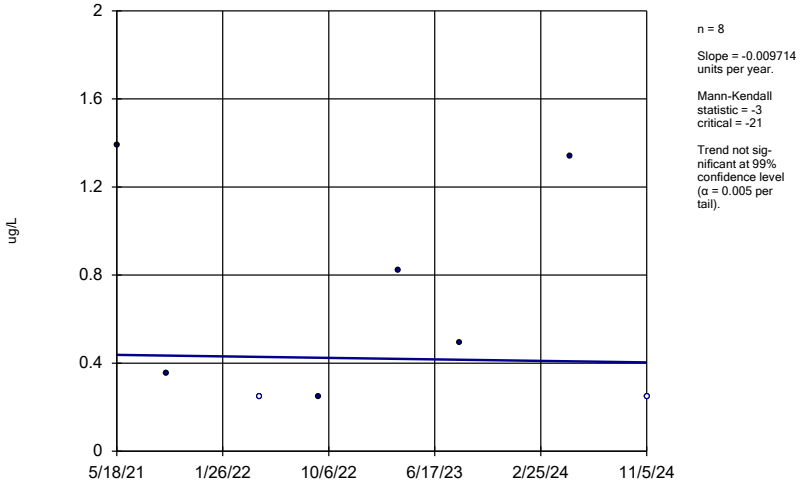
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33



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Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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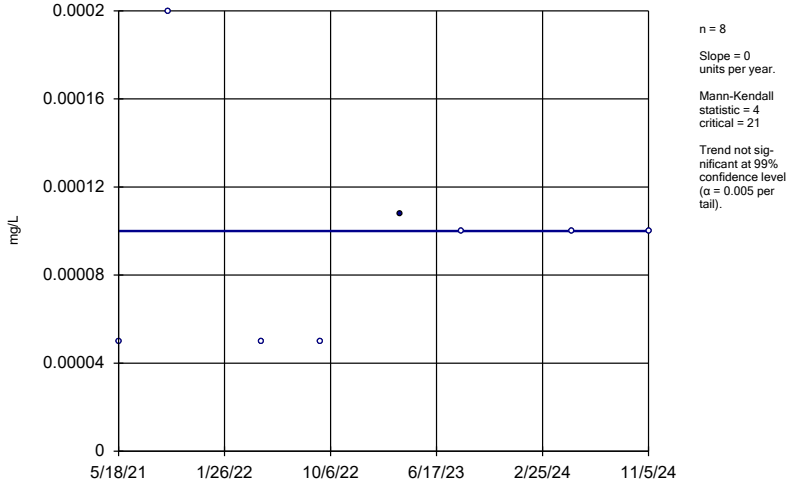
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-20



Constituent: Cadmium Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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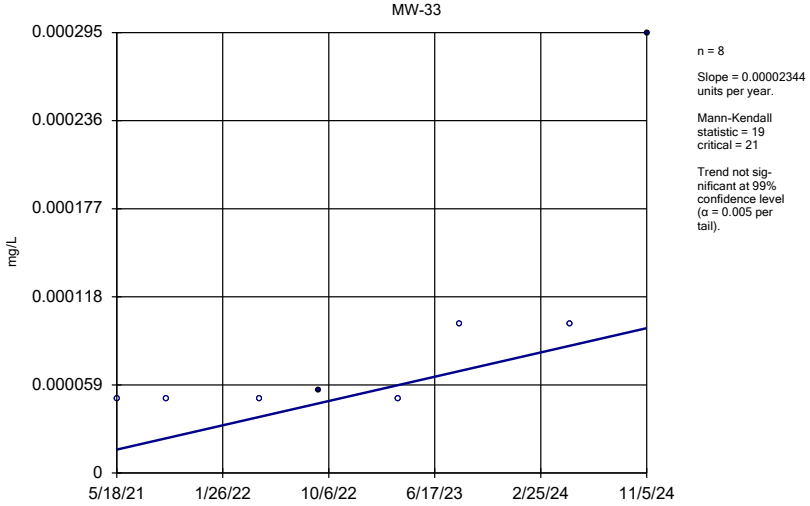
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-33



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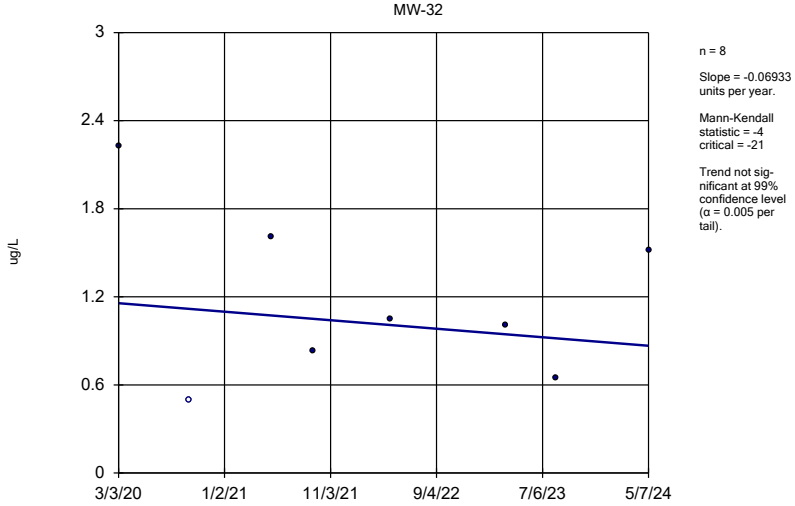
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

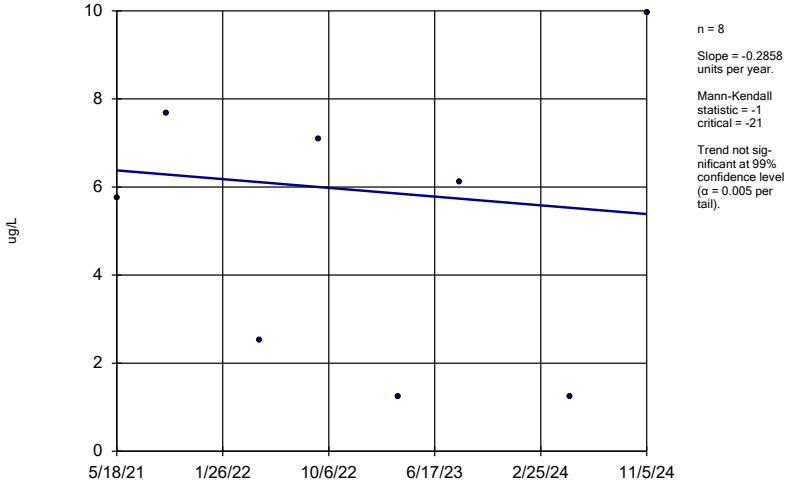
MW-32



Constituent: Chlorobenzene Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sen's Slope Estimator

MW-90-11



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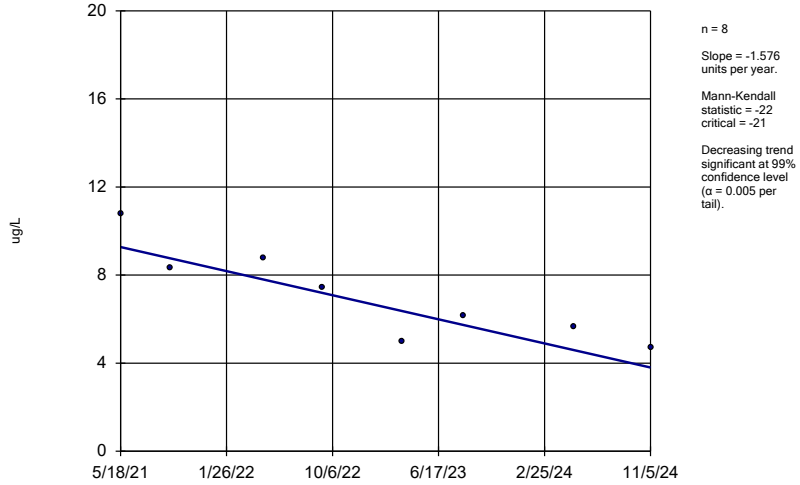
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-20

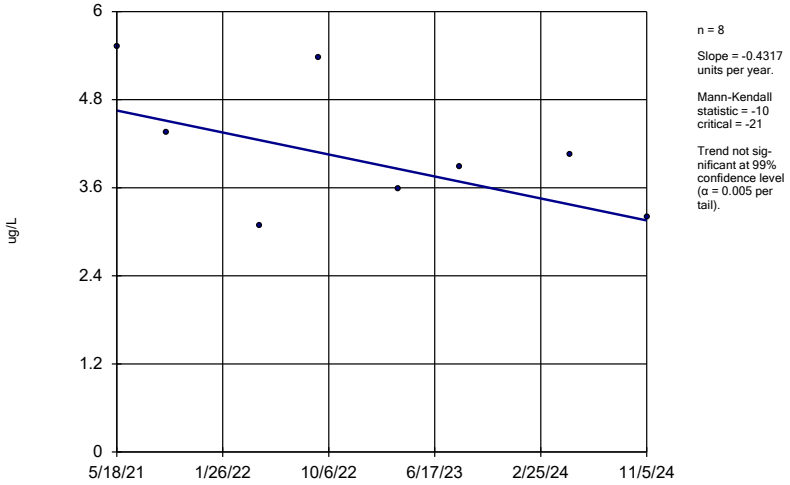


Constituent: Chloroethane Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



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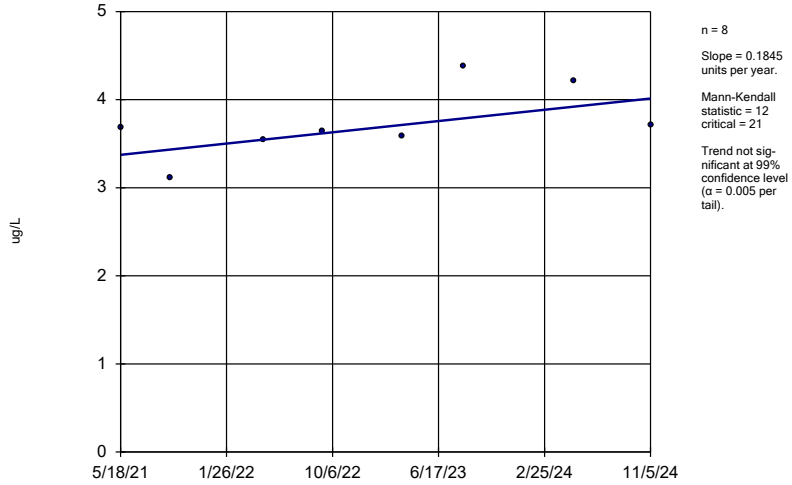
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

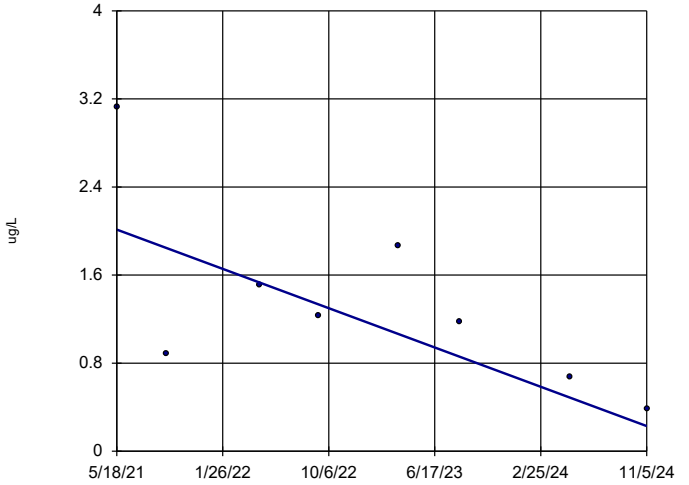
MW-20



Constituent: cis-1,2-Dichloroethene Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_S
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sen's Slope Estimator

MW-24

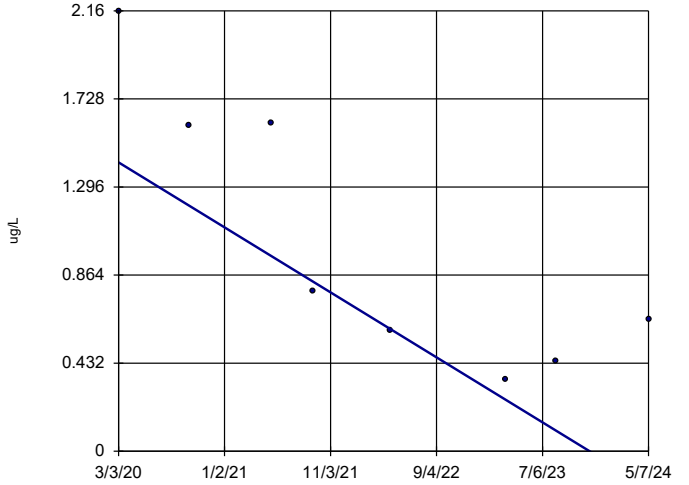


Constituent: cis-1,2-Dichloroethene Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_S
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-32



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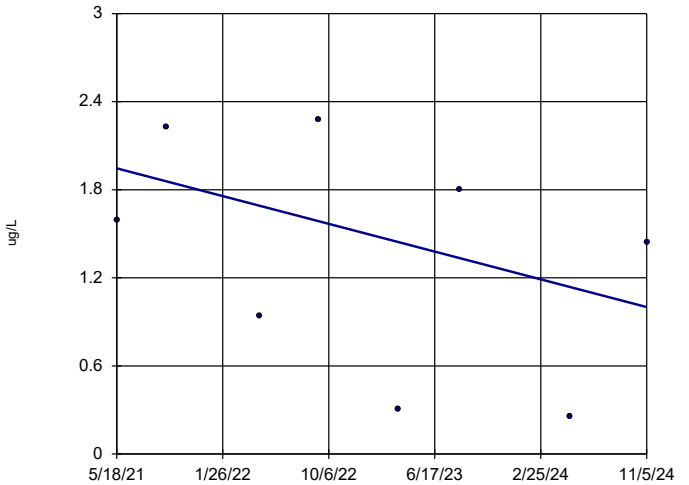
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-90-11



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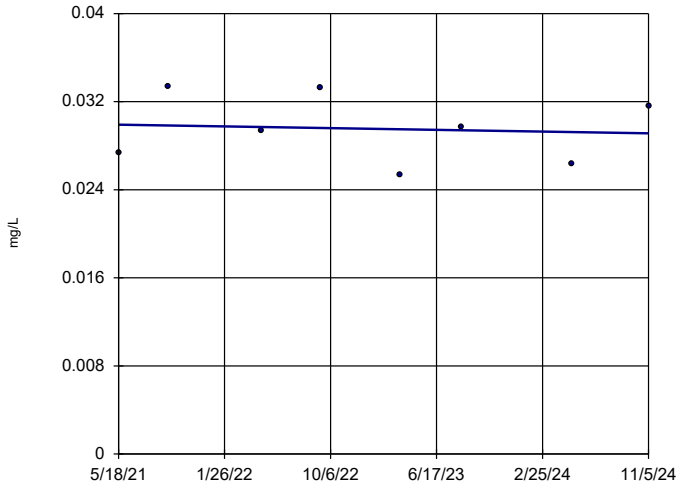
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-20



Constituent: Cobalt Analysis Run 12/6/2024 1:08 AM View: 2024AWQR-Mann_Kendall_Source
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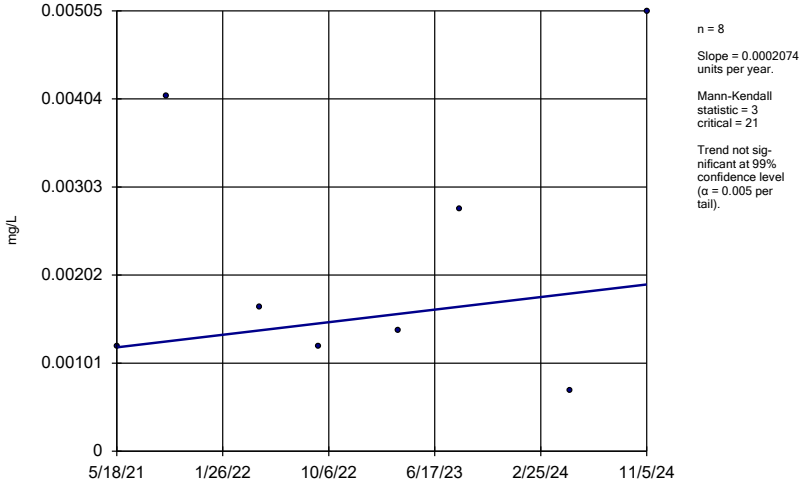
Sen's Slope Estimator

MW-24



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Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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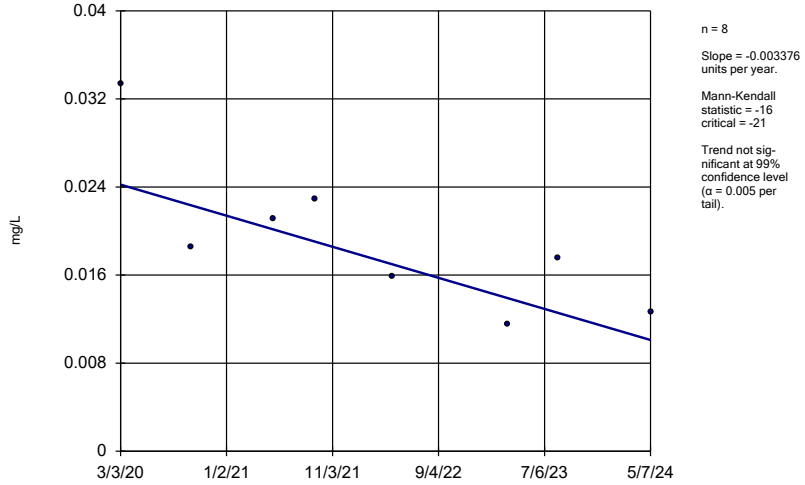
Sen's Slope Estimator

MW-32



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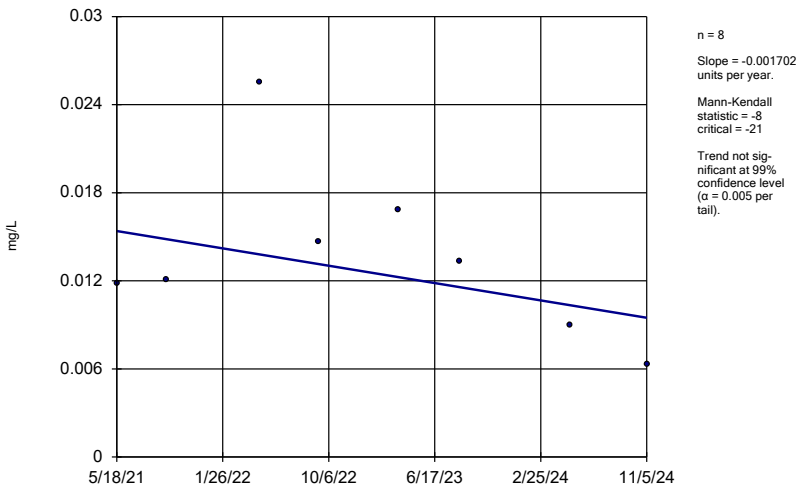
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-33



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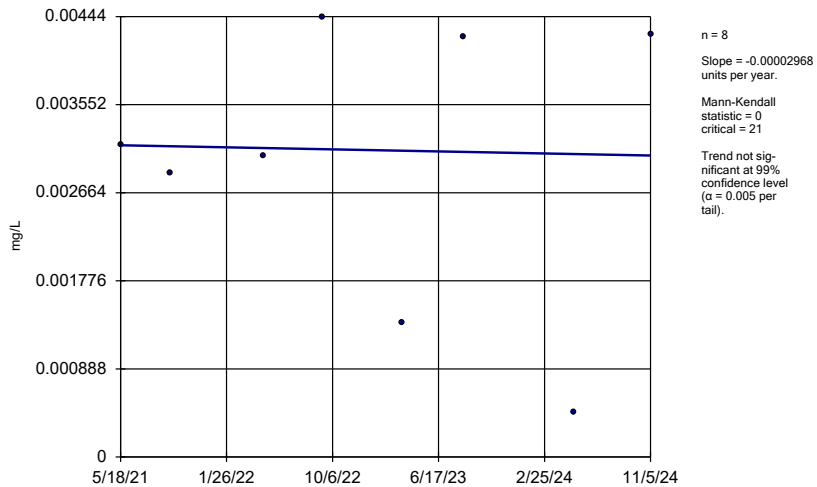
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-90-11



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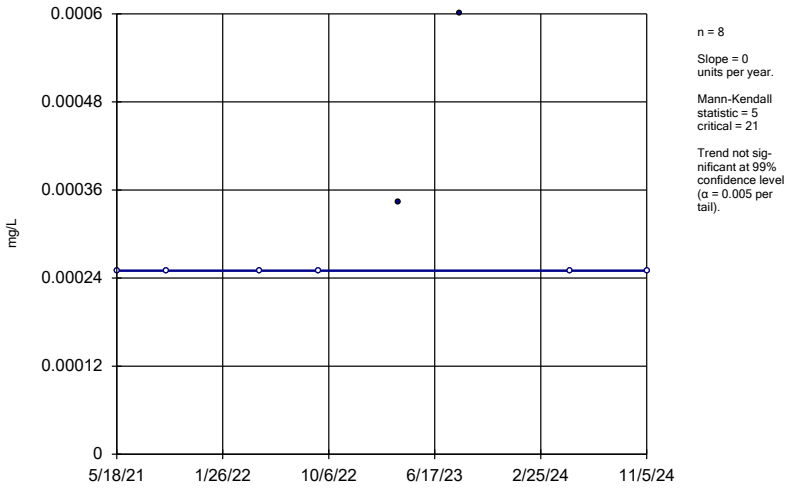
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24

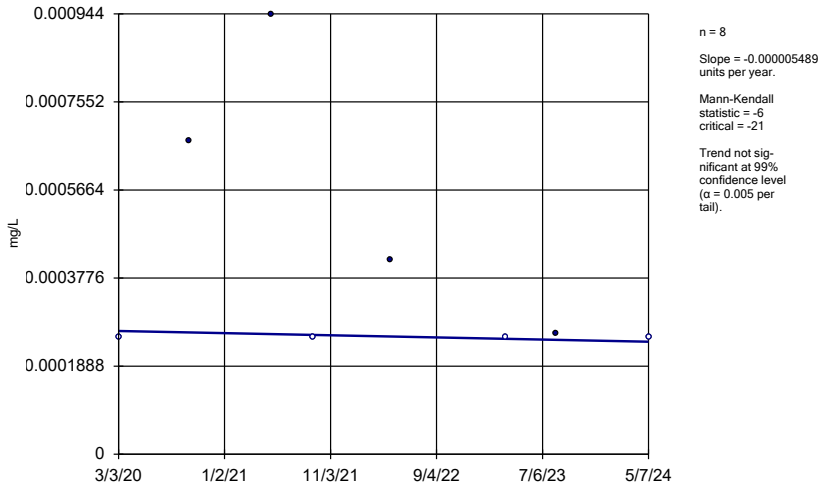


Constituent: Lead Analysis Run 12/6/2024 1:09 AM View: 2024AWQR-Mann_Kendall_Source
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-32



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Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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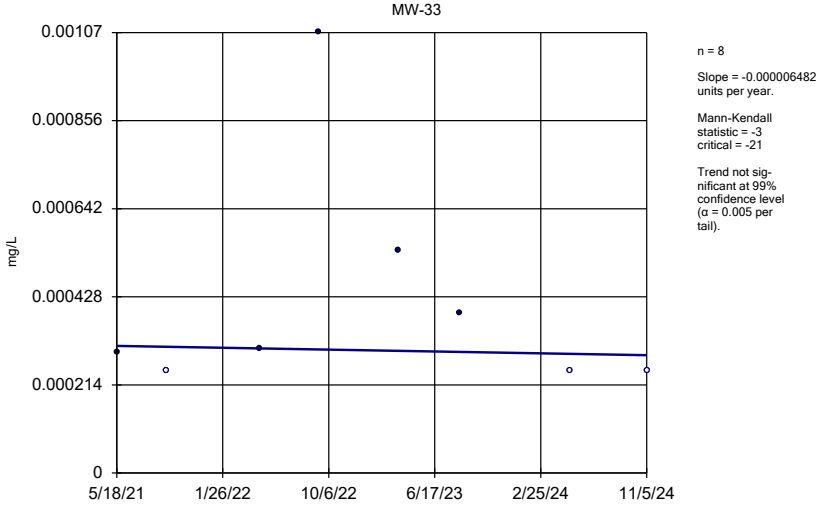
Sen's Slope Estimator

MW-33



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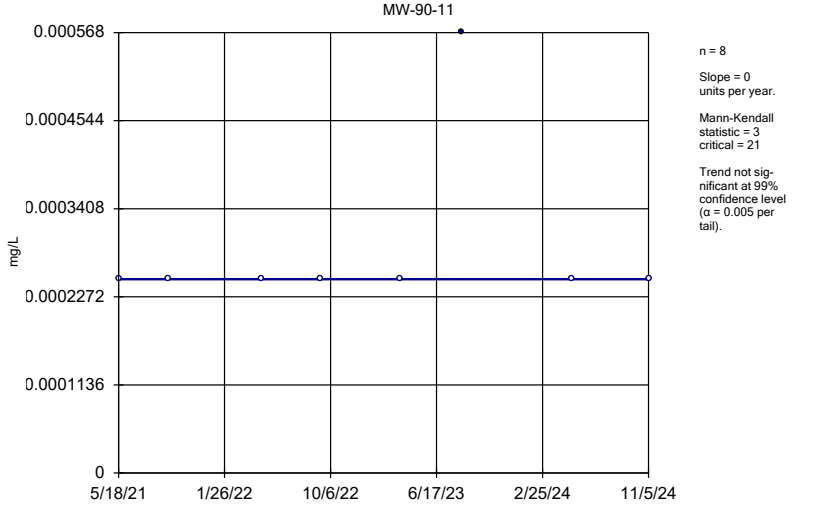
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-90-11



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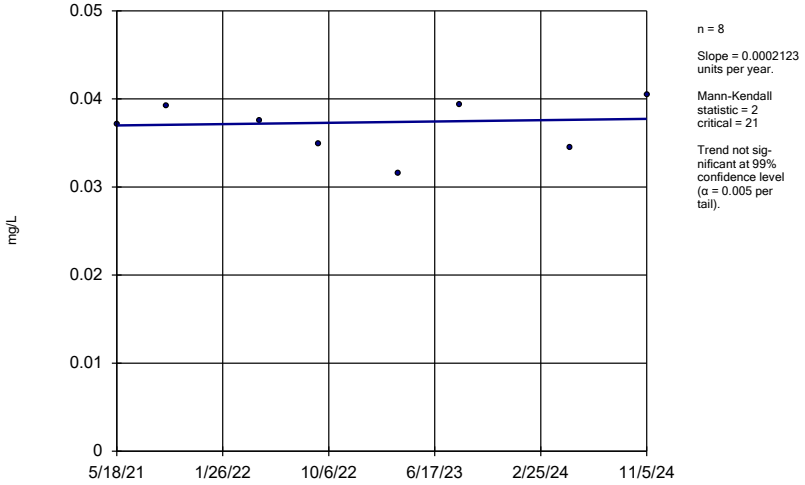
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-20



Constituent: Nickel Analysis Run 12/6/2024 1:09 AM View: 2024AWQR-Mann_Kendall_Source

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

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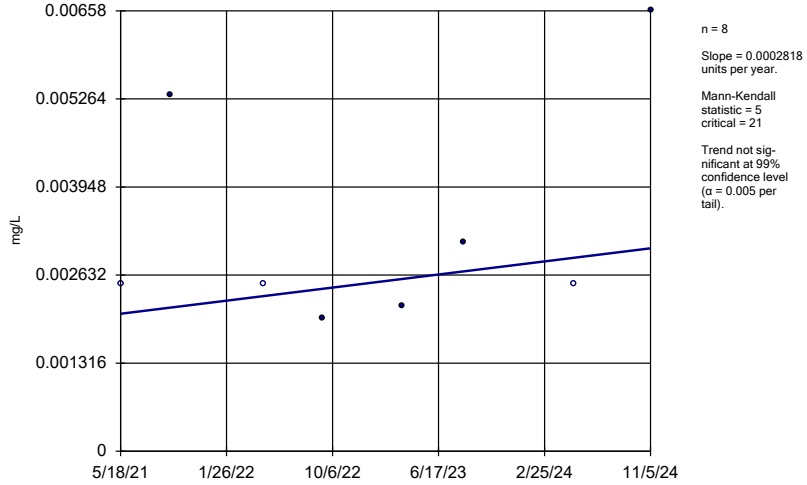
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24



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Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

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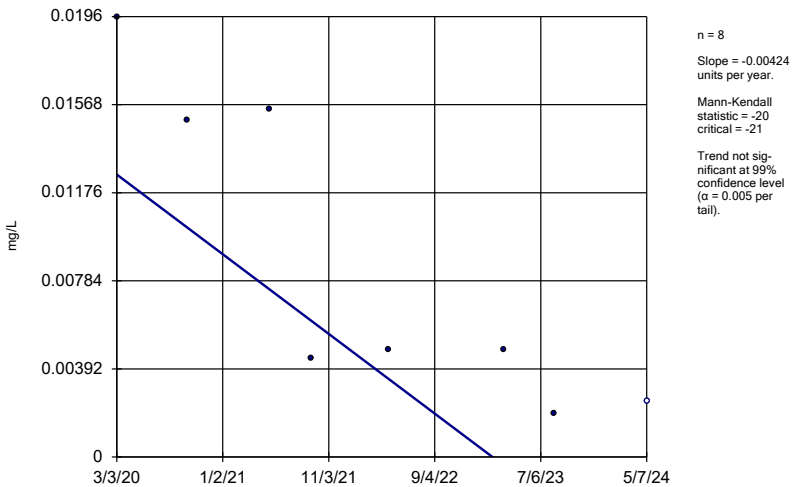
Sen's Slope Estimator

MW-32



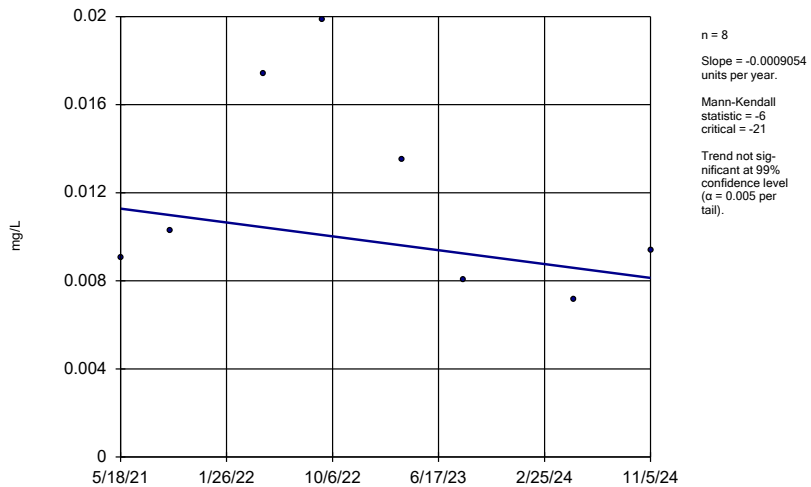
Constituent: Nickel Analysis Run 12/6/2024 1:09 AM View: 2024AWQR-Mann_Kendall_Source

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-33



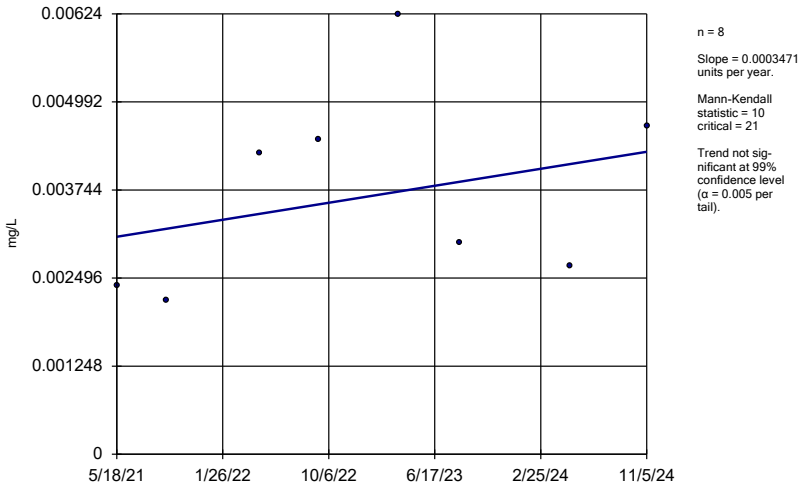
Constituent: Nickel Analysis Run 12/6/2024 1:09 AM View: 2024AWQR-Mann_Kendall_Source

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-90-11



Constituent: Nickel Analysis Run 12/6/2024 1:09 AM View: 2024AWQR-Mann_Kendall_Source

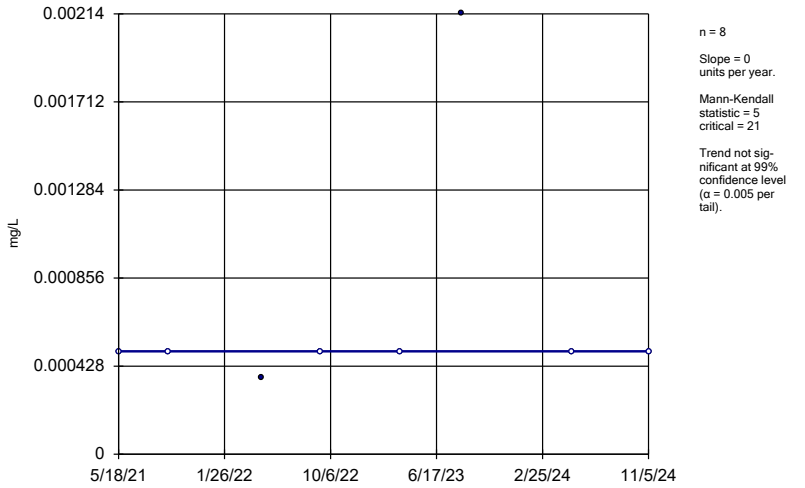
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-90-11



Constituent: Thallium Analysis Run 12/6/2024 1:09 AM View: 2024AWQR-Mann_Kendall_Source

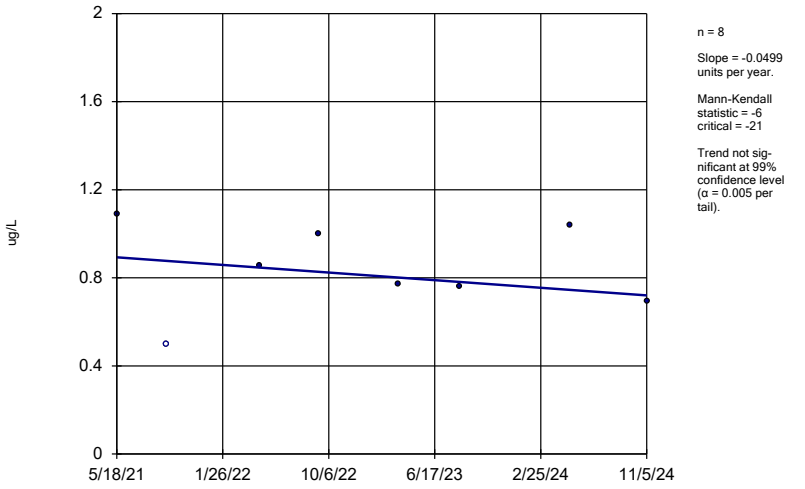
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-20



Constituent: Vinyl chloride Analysis Run 12/6/2024 1:09 AM View: 2024AWQR-Mann_Kendall_Source

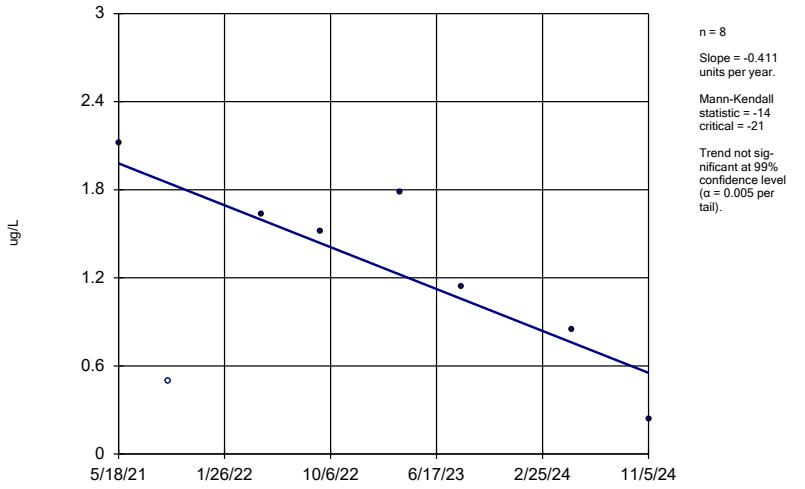
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24



Constituent: Vinyl chloride Analysis Run 12/6/2024 1:09 AM View: 2024AWQR-Mann_Kendall_Source

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Confidence Interval Summary Table

Water Table Aquifer

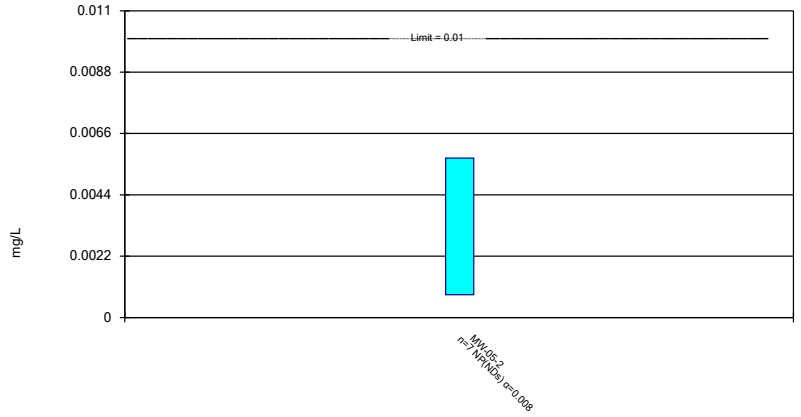
AM&AZPOC Confidence Interval

Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM Printed 12/6/2024, 12:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MW-05-2	0.00572	0.000818	0.01	No	7	71.43	No	0.008	NP (NDs)
Barium (mg/L)	MW-05-2	0.1452	0.1196	2	No	4	0	No	0.01	Param.
Barium (mg/L)	MW-19	0.1897	0.1685	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-29	0.1745	0.1175	2	No	5	0	No	0.01	Param.
Cadmium (mg/L)	MW-19	0.0002544	0.0001008	0.005	No	8	0	No	0.01	Param.
Chromium (mg/L)	MW-29	0.007421	0.001031	0.1	No	5	0	No	0.01	Param.
Cobalt (mg/L)	MW-19	0.00188	0.000208	0.0021	No	8	37.5	No	0.004	NP (normality)
Lead (mg/L)	MW-19	0.0009519	0.0004108	0.015	No	8	37.5	No	0.01	Param.
Nickel (mg/L)	MW-19	0.007719	0.002204	0.1	No	8	12.5	No	0.01	Param.
Silver (mg/L)	MW-05-2	0.00119	0.0005	0.1	No	4	75	No	0.0625	NP (NDs)
Silver (mg/L)	MW-19	0.00128	0.0005	0.1	No	8	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	MW-19	0.00186	0.000414	0.002	No	8	75	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

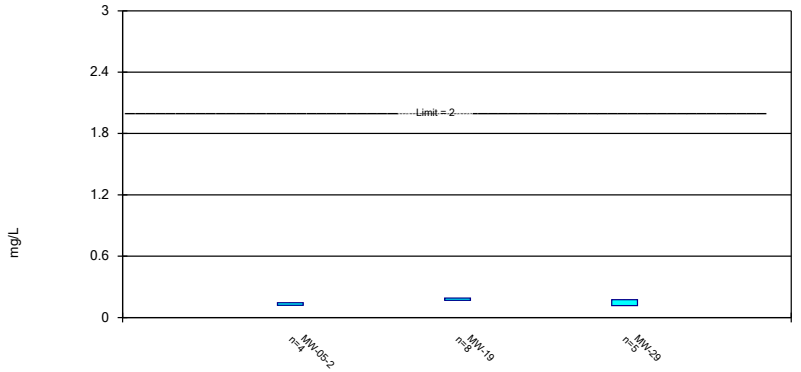
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 12/6/2024 12:42 AM View: 2024AWQR-Confidence_Interval-AM&AZP
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Parametric Confidence Interval

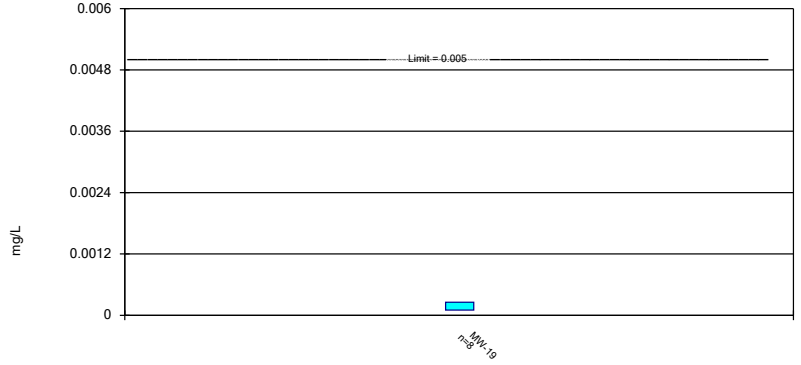
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 12/6/2024 12:42 AM View: 2024AWQR-Confidence_Interval-AM&AZPO
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Parametric Confidence Interval

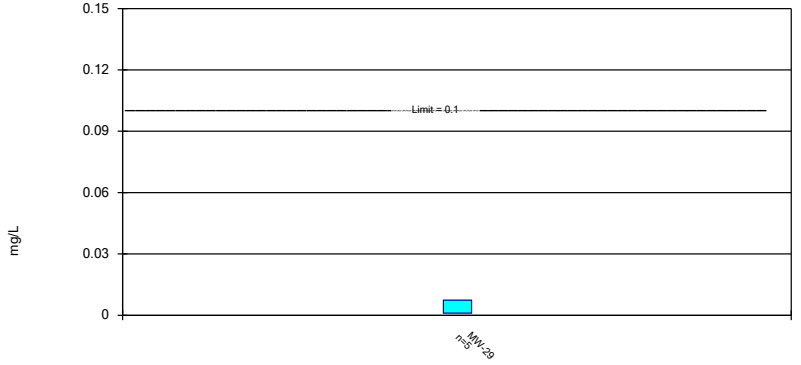
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cadmium Analysis Run 12/6/2024 12:42 AM View: 2024AWQR-Confidence_Interval-AM&AZ
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Parametric Confidence Interval

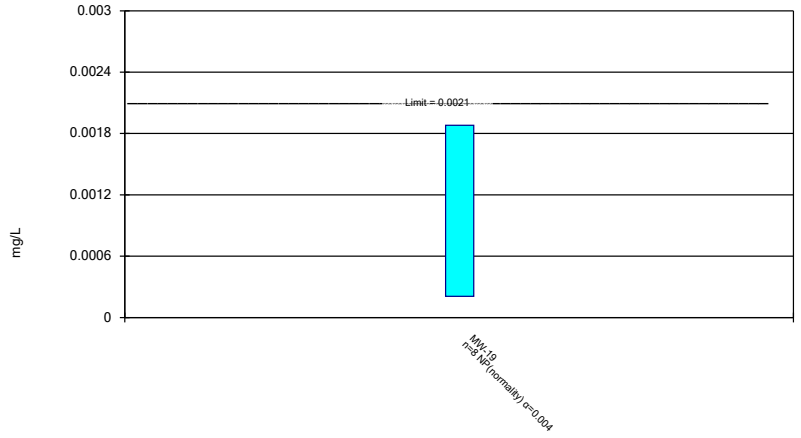
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Chromium Analysis Run 12/6/2024 12:42 AM View: 2024AWQR-Confidence_Interval-AM&AZ
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Cobalt Analysis Run 12/6/2024 12:42 AM View: 2024AWQR-Confidence_Interval-AM&AZPO
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Parametric Confidence Interval

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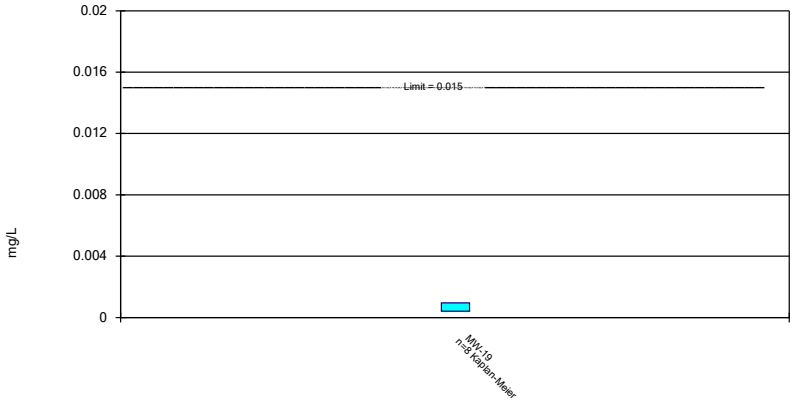

Constituent: Lead Analysis Run 12/6/2024 12:42 AM View: 2024AWQR-Confidence_Interval-AM&AZPOC
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Parametric Confidence Interval

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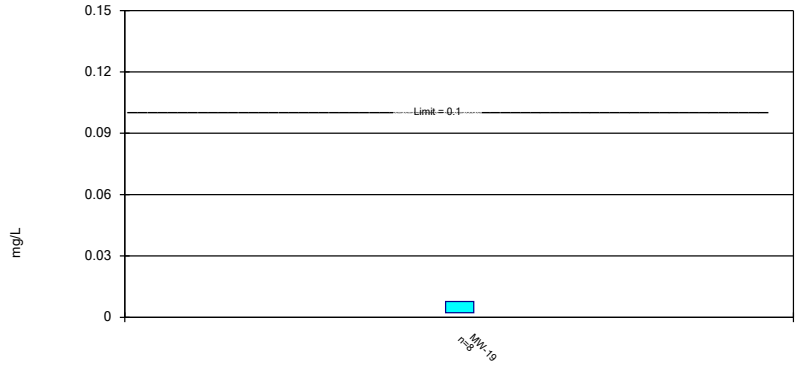
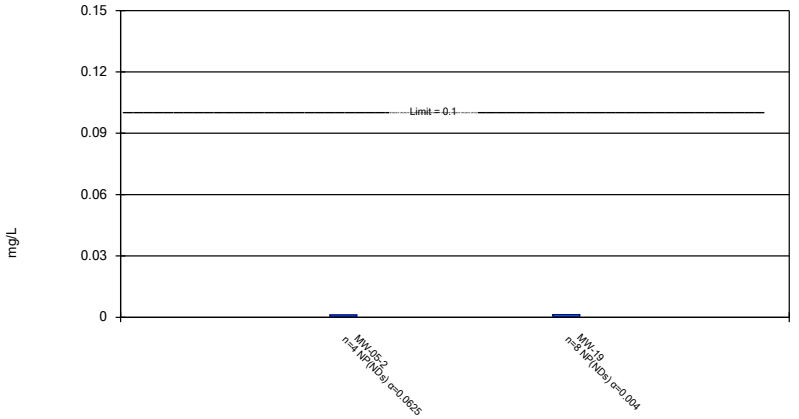


Constituent: Nickel Analysis Run 12/6/2024 12:42 AM View: 2024AWQR-Confidence_Interval-AM&AZPO
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



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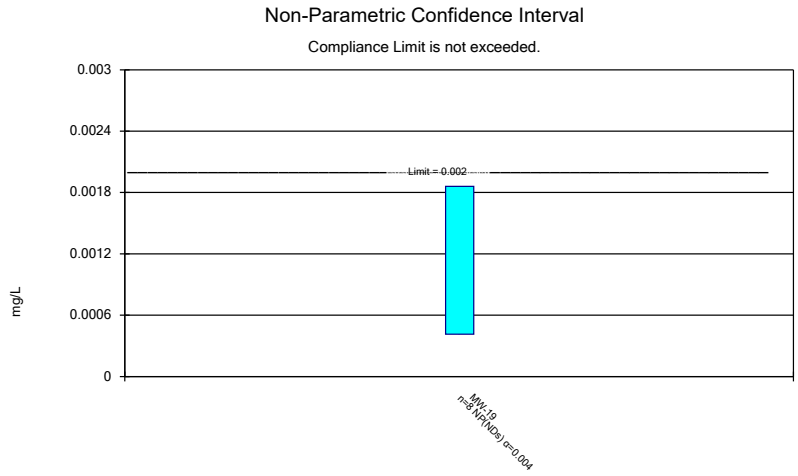
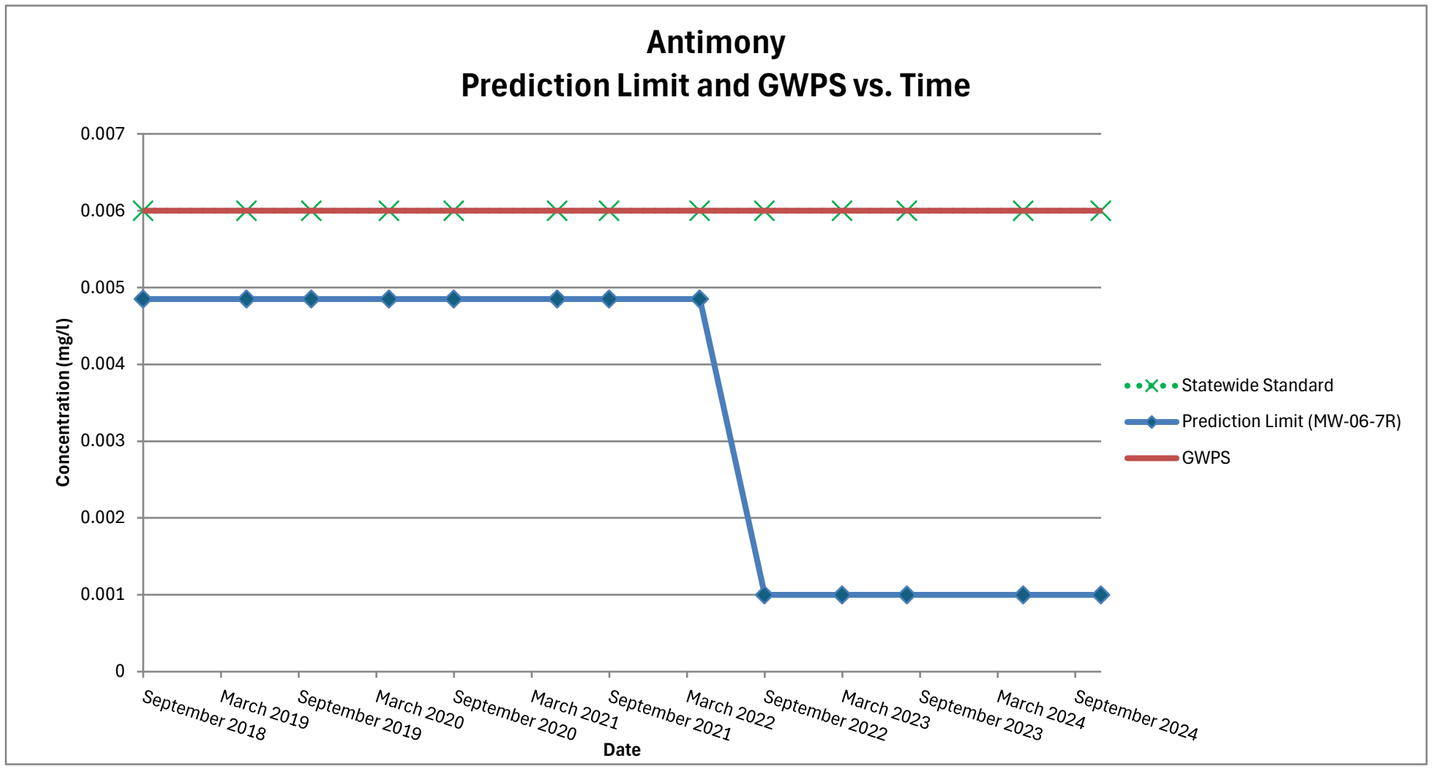
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

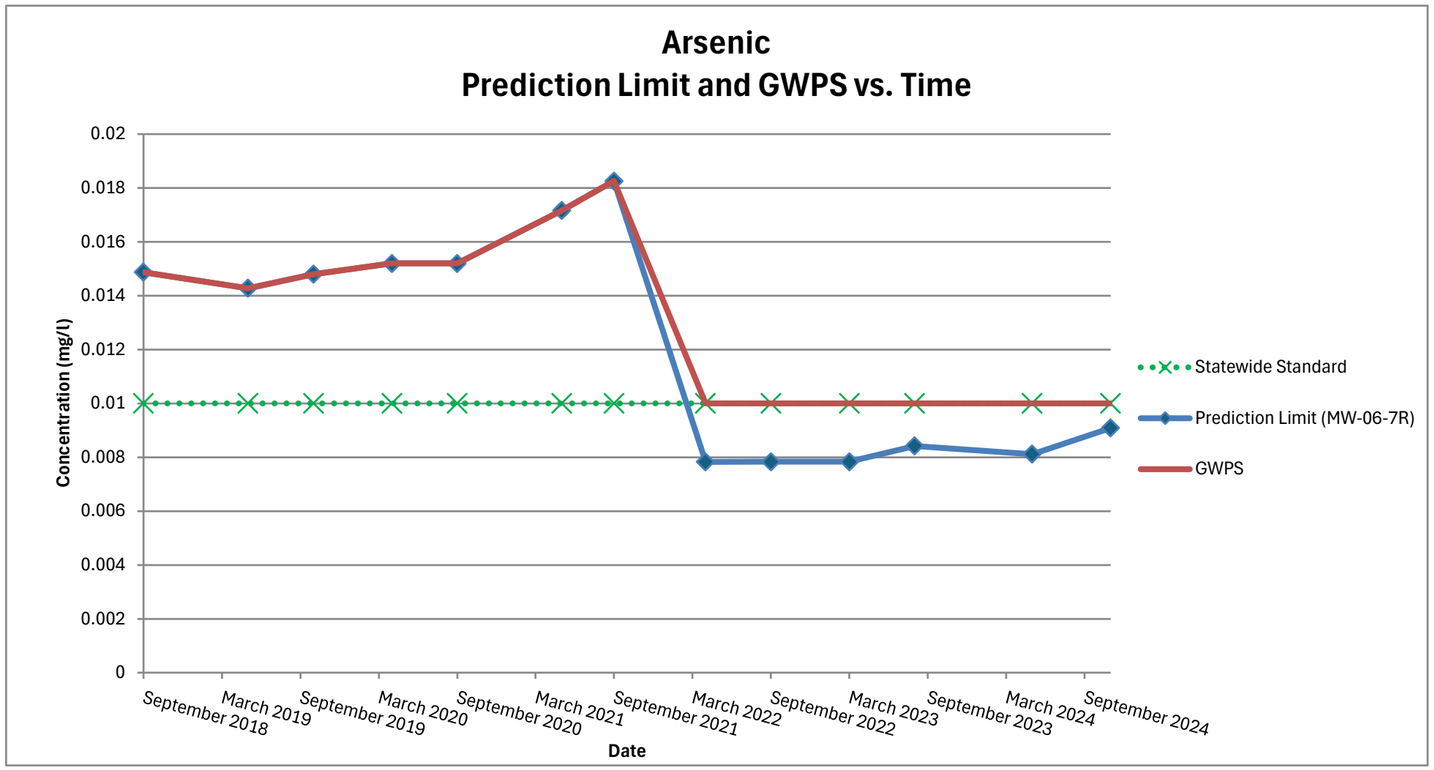


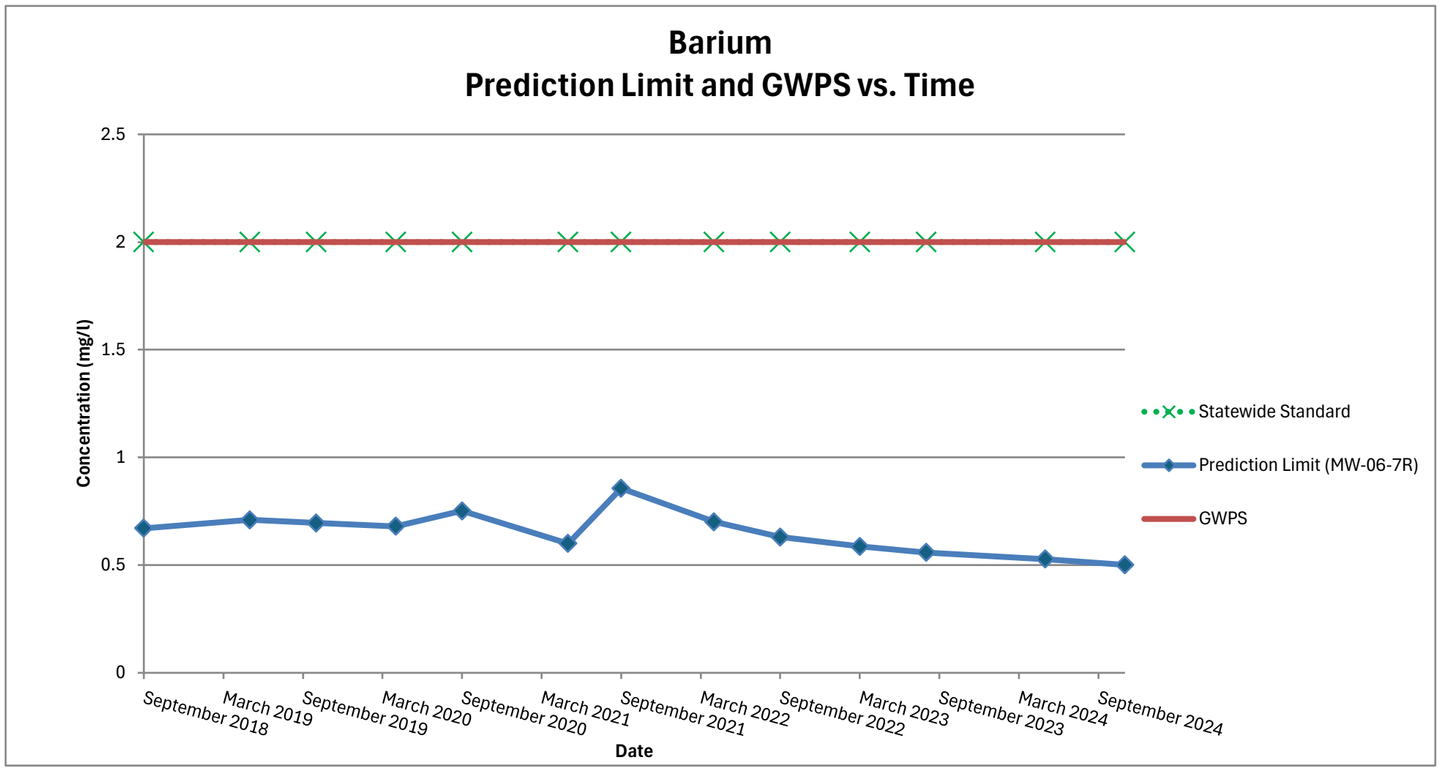
Constituent: Thallium Analysis Run 12/6/2024 12:42 AM View: 2024AWQR-Confidence_Interval-AM&AZP
Clinton County SLF Client: SCS Engineers Data: Clinton E South-2024AWQR-AM

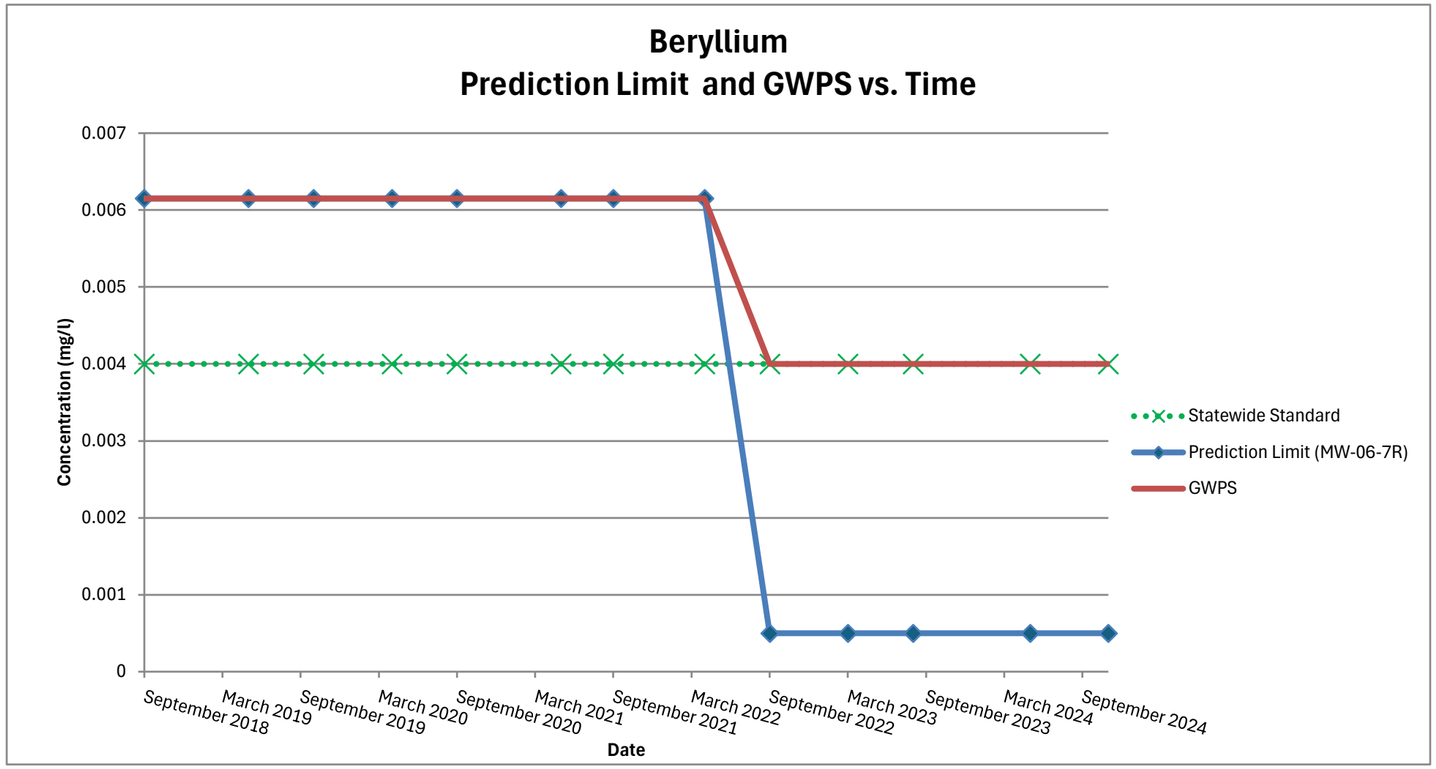
Appendix E

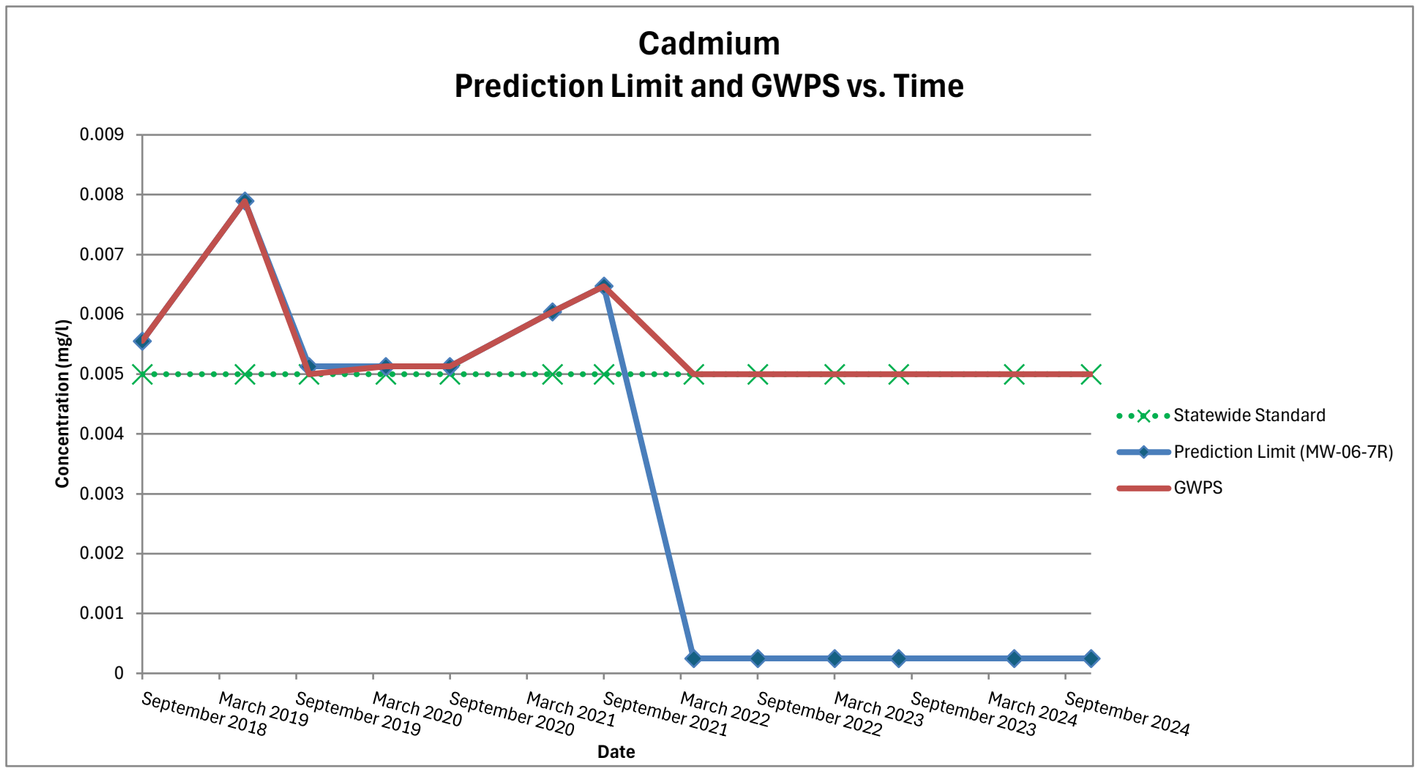
Standards History Graphs

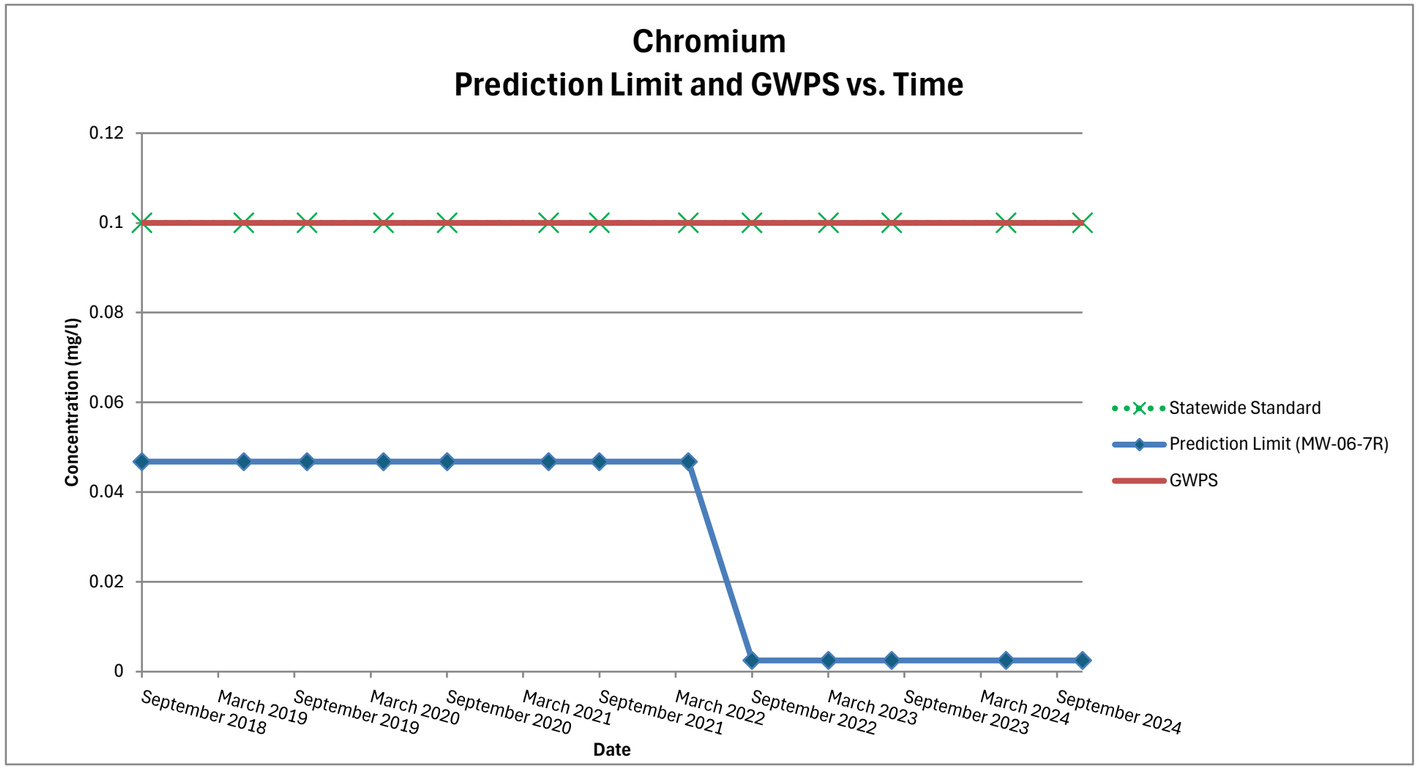

Antimony
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS

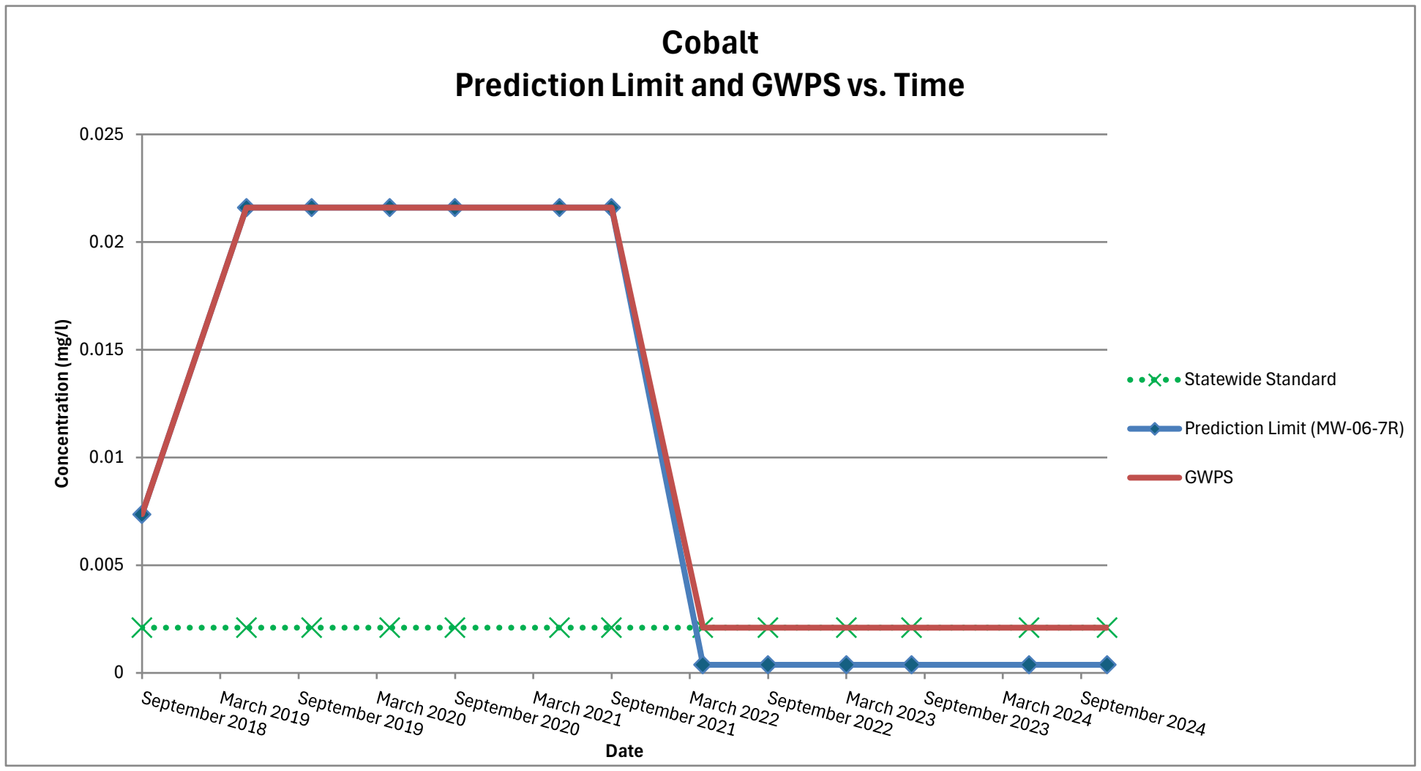

Arsenic
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS

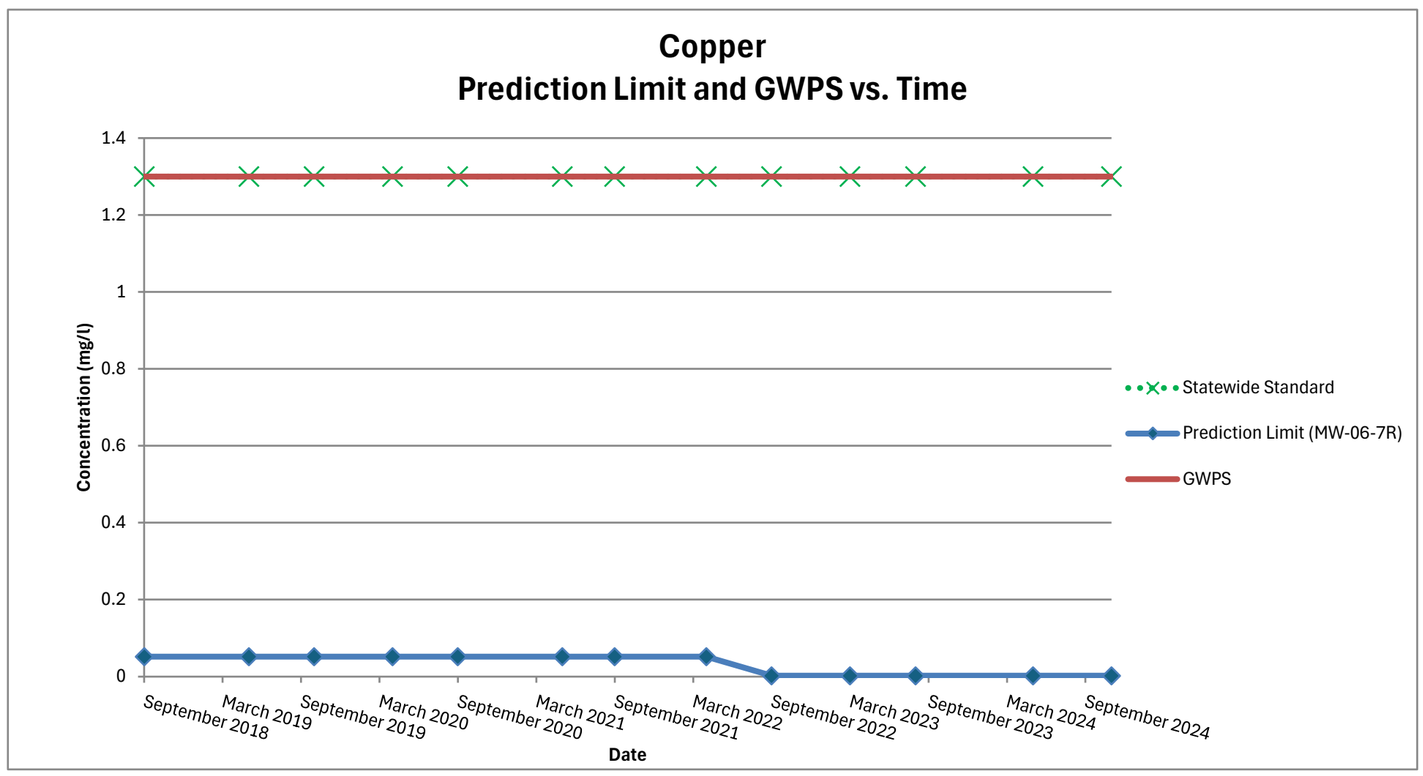

Barium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
2.5
2
1.5
1
0.5
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS

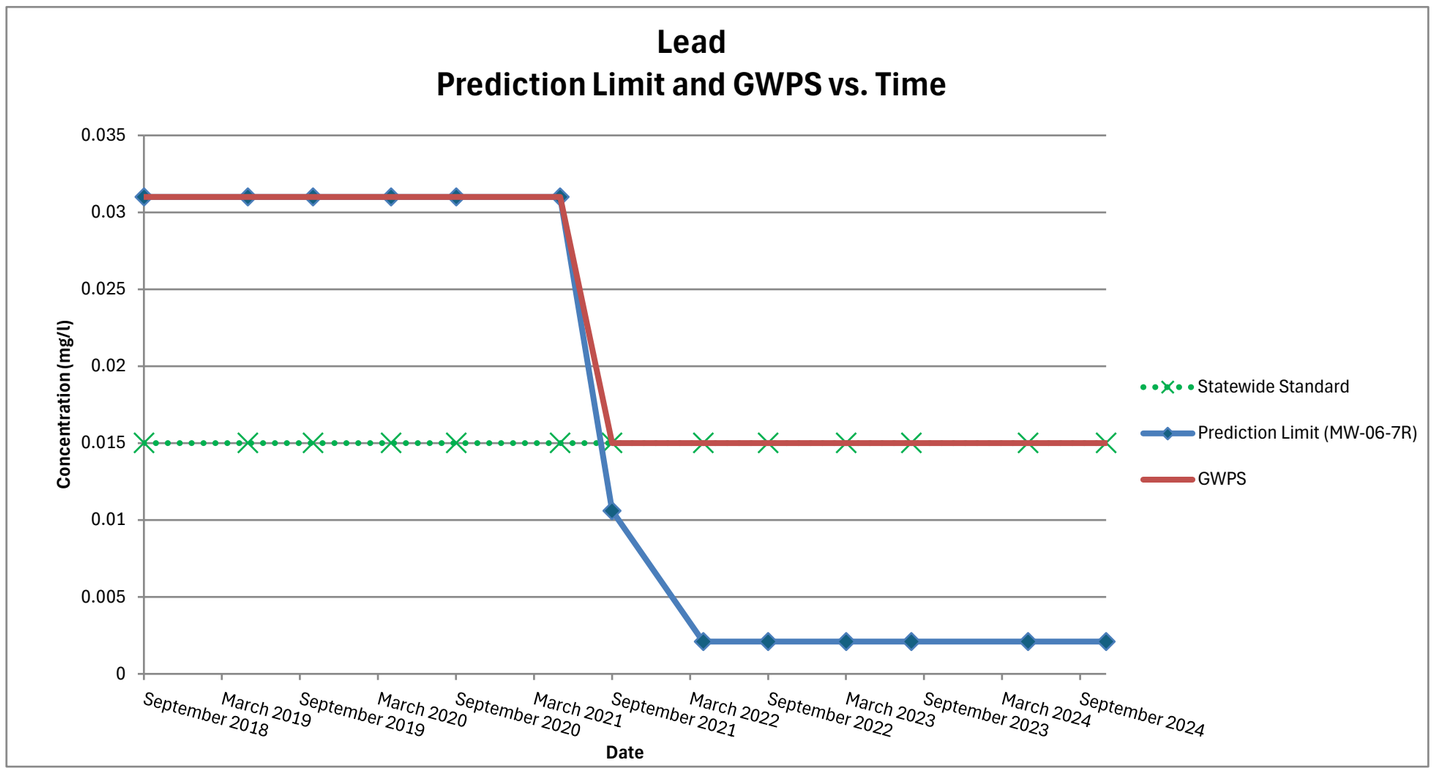

Beryllium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS


Cadmium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS

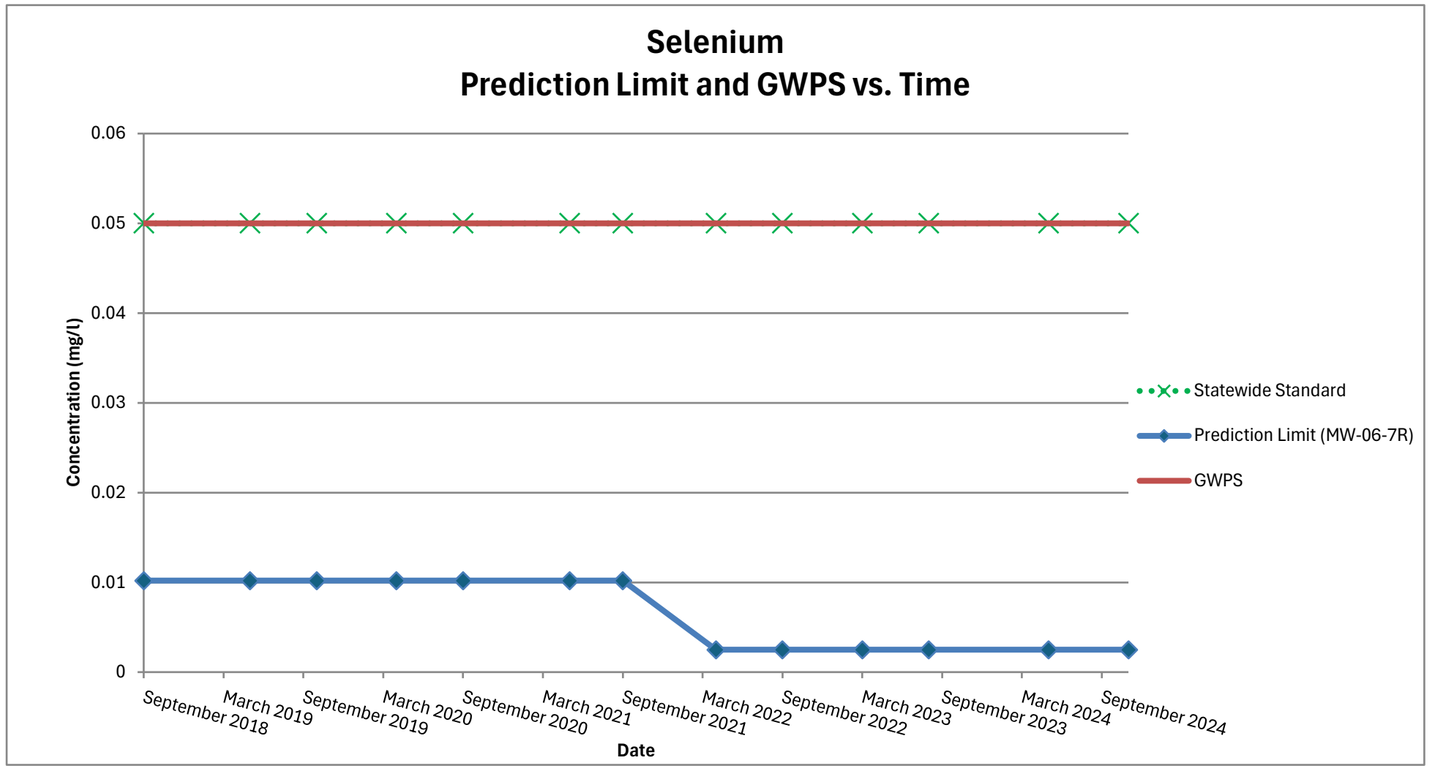

Chromium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.12
0.1
0.08
0.06
0.04
0.02
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS

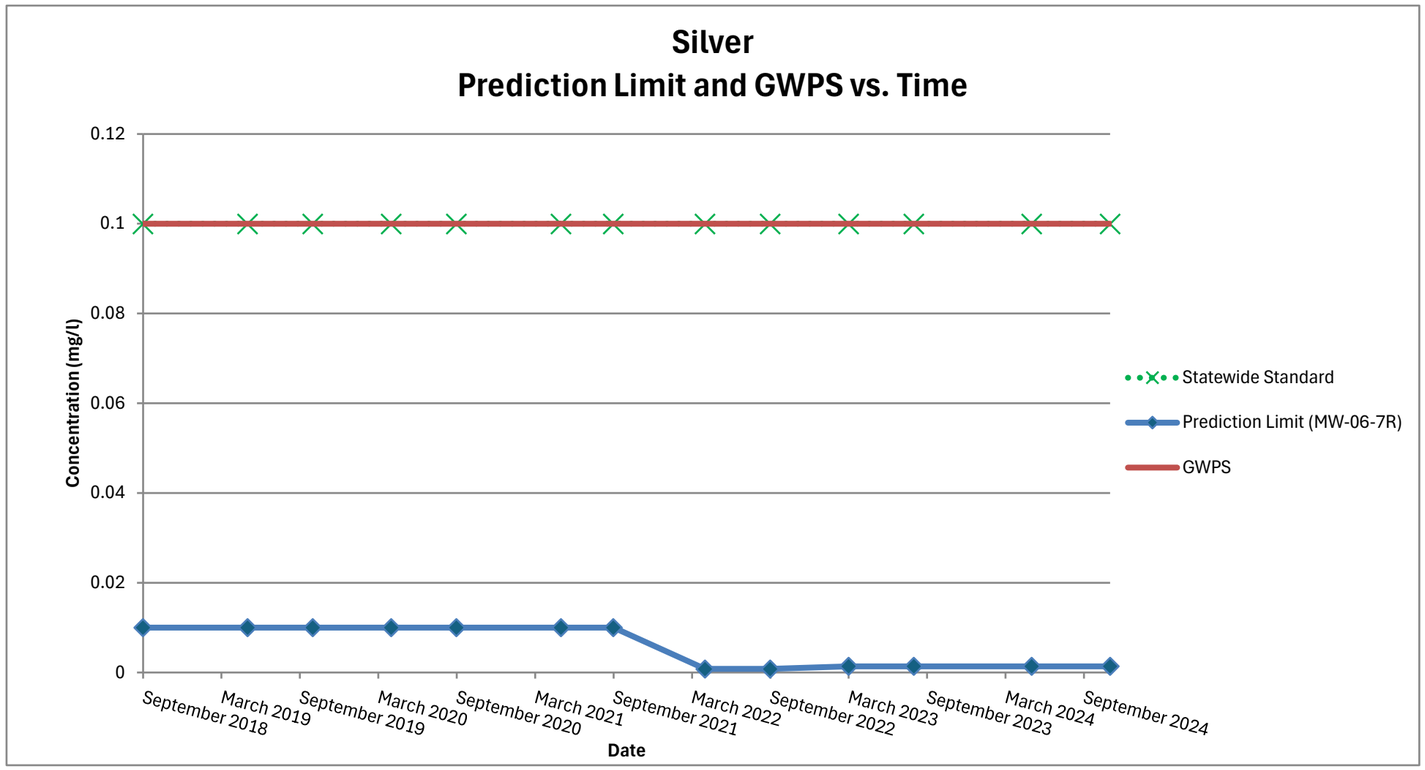

Cobalt
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.025
0.02
0.015
0.01
0.005
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS

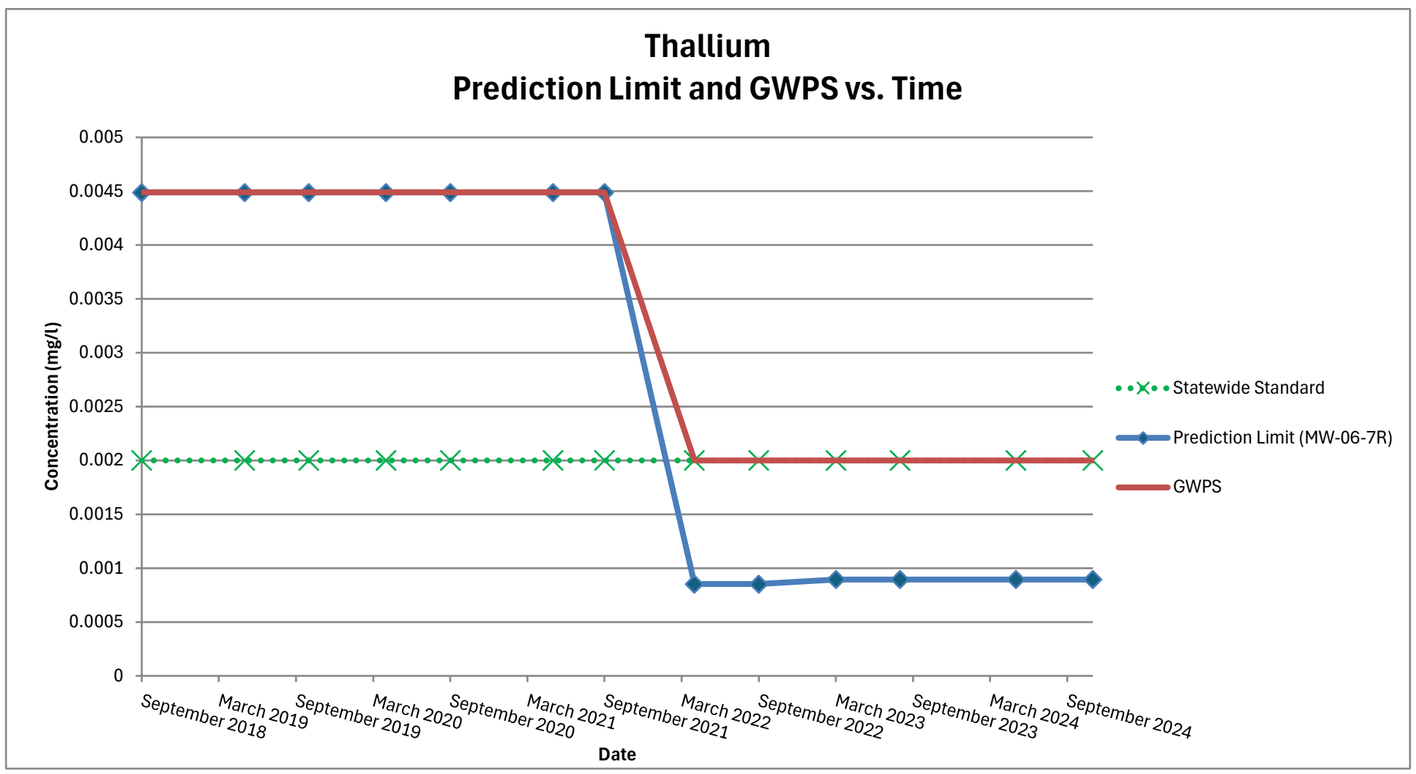

Copper
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS


Lead
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS

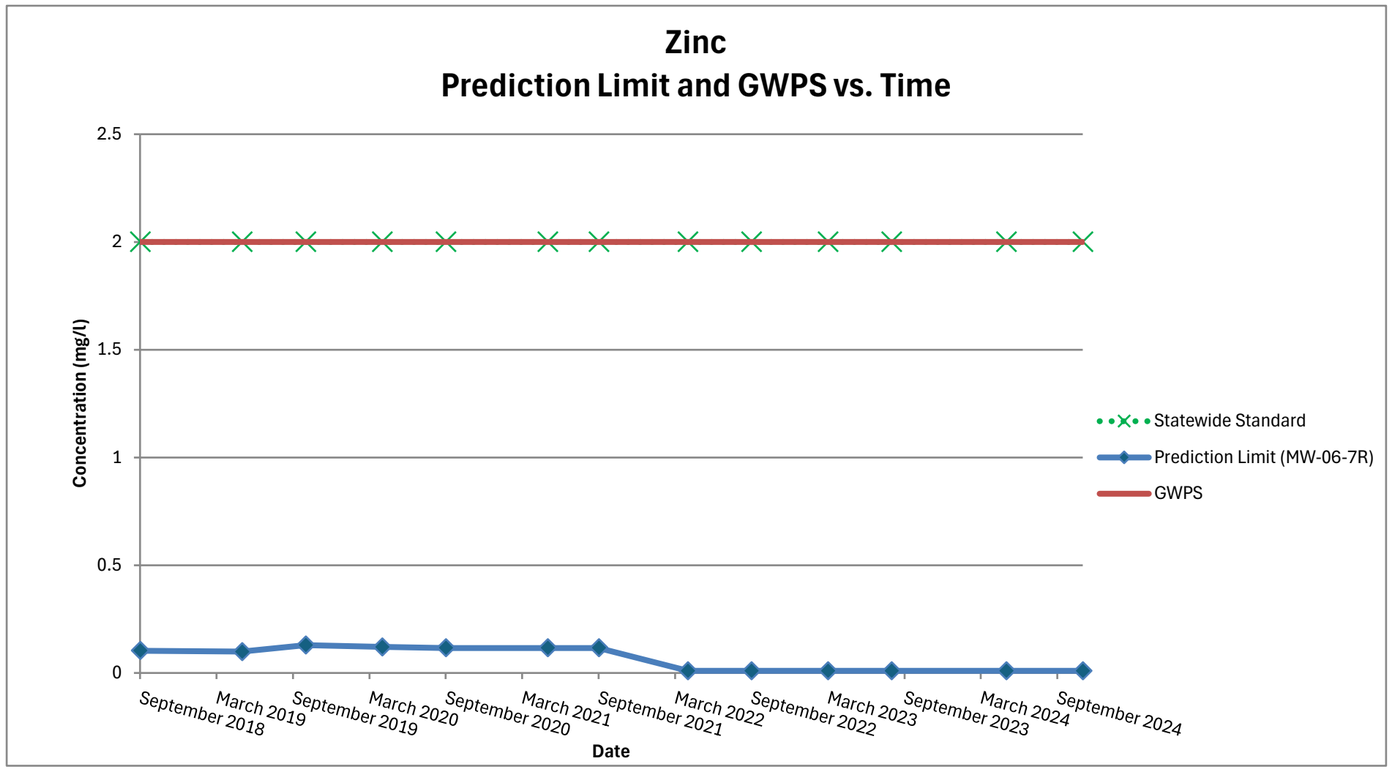
Nickel
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS


Selenium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.06
0.05
0.04
0.03
0.02
0.01
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS


Silver
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.12
0.1
0.08
0.06
0.04
0.02
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS


Thallium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS

Vanadium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS


Zinc
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
2.5
2
1.5
1
0.5
0
September 2018
March 2019
September 2019
March 2020
September 2020
March 2021
September 2021
March 2022
September 2022
March 2023
September 2023
March 2024
September 2024
Date
Statewide Standard
Prediction Limit (MW-06-7R)
GWPS

Appendix G

2024 Leachate Control System Performance Evaluation Report

2024 Leachate Control System Performance Evaluation Report

Clinton County Sanitary Landfill – East
Permit No. 23-SDP-01-74P
Clinton, Iowa

Prepared for:

Clinton County Area Solid Waste Agency

SCS ENGINEERS

27223133.00 | January 31, 2025

1690 All-State Court, Suite 100
West Des Moines, Iowa 50265
515-631-6160

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Section Page

Figures

Attachments

1.0 LEACHATE CONTROL SYSTEM

SCS Engineers (SCS), on behalf of the Clinton County Area Solid Waste Agency (Agency), has prepared this Leachate Control System Performance Evaluation Report (LCSPER) for the closed North and active South municipal solid waste landfill (MSWLF) units at the Clinton County Sanitary Landfill - East (Landfill). This LCSPER was prepared to comply with the requirements of the 2002 Iowa Administrative Code (IAC) 567-113.26(2)"l", current 567-113.7(5)"b"(14), and additional Iowa Department of Natural Resources (DNR) requirements specified in the site's operating permit, most recently revised on June 5, 2023 (Doc #106929). This LCSPER describes the leachate control system, discusses maintenance activities, provides an evaluation of the effectiveness of the system, and, if necessary, provides recommendations for additional control measures. The reporting period for this LCSPER is from December 2023 through December 2024.

1.1 LOCATION OF CONTROL SYSTEM

The Landfill property is depicted on **Figure 1**, Leachate Control System, and consists of approximately 330 acres located along 220th Street, approximately 5 miles west of Clinton, Iowa, and is located within the S ½, NE ¼; E ½, SW ¼; and the SE ¼ of Section 33, in Township 82 North, Range 6 East, in Clinton County, Iowa.

1.1.1 South MSWLF Unit

The South MSWLF unit consists of a lined area and an unlined area. The unlined portion was closed in 2009. Documentation of the closure was provided to the DNR in correspondence dated February 12, 2010 (Doc # 55423).

At the time of closure of the unlined portion of the South MSWLF unit, a perforated leachate collection line was installed that gravity drains into the existing leachate collection system on the east side of the South MSWLF unit. The monitoring system for the unlined portion of the South MSWLF unit consisted of four leachate piezometers (LMW-5B, LMW-5DR, LMW-5AR, and LMW-6AR). Leachate piezometers LMW-5DR and LMW-6AR have subsequently been destroyed, but replacement was not required (Doc #95164). The requirements for the unlined area are not specified in the most recent version of 567 IAC 113; however, it is understood that the leachate levels must be maintained at the lowest level that is practical as it is not constructed over a Subtitle D-compliant liner.

The lined portion of the South MSWLF unit consists of Phase 0, Phase 1A, Phase E-1, and Phase 2 cells, constructed in 2007, 2011, 2017, and 2020, respectively. Leachate collected from the Phase 0 cell gravity drains into a manhole located just south of the south boundary of the Phase 0 cell. From this manhole, the leachate gravity drains to the leachate storage lagoon. Leachate collected from the Phase 1A and Phase 2 cells is pumped up a side slope riser to a location just south of the Phase 1A cell at which point the leachate gravity flows to the manhole on the south side of the Phase 0 cell and continues from there to the leachate storage lagoon. In the Phase E-1 cell, leachate piping was placed in a north-to-south and east-to-west alignment converging at the southwest corner of the cell, where it was connected to the existing leachate collection system piping. The monitoring system for these cells consists of leachate piezometers LPZ-0, LPZ-1, and LPZ-E1. Leachate piezometers LPZ-0 and LPZ-1 are measured manually. Column thickness in leachate piezometer LPZ-0 ranged from dry to 0.1 foot this reporting period. Leachate piezometer LPZ-1 is difficult to access due to the height and angle of the casing and has an obstruction; an electronic water level indicator is difficult to get past approximately 19 feet below the top of casing while the installed depth is 46 feet.

Leachate levels in LPZ-E1 are monitored by a supervisory control and data acquisition (SCADA) system. The lined area is required to maintain less than 12 inches of leachate head on the liner. Further details are available in the construction observation reports for each cell.

At the time of construction of the Phase 1A cell, four perforated leachate collection lines were installed in the cell and connected to the perforated header to assist with leachate collection. Installation of a toe drain in the Phase 0 cell was also performed in conjunction with the Phase 1A cell construction to address a leachate seep. During construction of the Phase E-1 cell, a leachate seep was encountered in the closed, unlined cell. A leachate toe drain was installed to address the seep and was connected to the existing leachate header piping.

The leachate storage lagoon was constructed in 2005 and is used for leachate storage from both the North and South MSWLF units. The lagoon discharges to the City of Clinton sewer system through a lift station, force main, and gravity line.

1.1.2 North MSWLF Unit

The leachate collection system for the North MSWLF unit consists of sections of perforated leachate collection piping installed in Ravines 2, 3, and 4 to intercept previous leachate seeps. The leachate collection piping gravity drains to two lift stations, which then pump to a manhole that gravity drains to the leachate storage lagoon. Additional perforated leachate collection piping was added in 2007. Additional piping and trenches were constructed in 2008 to address persistent seeps. Construction of an additional leachate seep interceptor trench in Ravine 3/4 began in November 2024. The monitoring system for the North MSWLF unit consists of leachate piezometers LMW-2A, LMW-3A, LMW-4A, and LMW-4B. The leachate levels in the North MSWLF unit must be maintained at the lowest level that is practical as it is not constructed over a Subtitle D-compliant liner. Both lift stations are monitored by a SCADA system, which includes high-level alarms that are sent to Landfill staff and the contract operator.

1.2 EFFECTIVENESS OF THE LEACHATE CONTROL SYSTEM

1.2.1 South MSWLF Unit

Table 12 in Attachment A provides a summary of monthly leachate column thickness measurements for the South MSWLF unit recorded during this reporting period. Monthly measurements were supplied to SCS by the Agency; measurements marked “NM” were not available from the Agency. Due to landfill operator personnel changes during this reporting period, most of the monthly measurements were inadvertently missed. The South MSWLF unit leachate piezometers over the unlined area originally included LMW-5A, LMW-5B, LMW-5C, LMW-5DR, and LMW-6AR. LMW-5C was recorded as destroyed beginning in January 2015. Leachate piezometer LMW-5A was abandoned during Cell E-1 construction in June 2016 and replaced by LMW-5AR in 2018. Leachate piezometers LMW-5DR and LMW-6AR were reported as missing beginning in July 2016. The column thickness in leachate piezometer LMW-5AR was dry to less than 0.5 foot throughout this reporting period. The column thickness in leachate piezometer LMW-5B was erratic with measurements ranging from 3.08 to 22.70 feet during this reporting period.

The South MSWLF unit leachate piezometers over Subtitle D-compliant liner are LPZ-0, LPZ-1, and LPZ-E1, monitoring the Phase 0, 1A, and E-1 cells, respectively. Since these piezometers are over a Subtitle D-compliant liner and a leachate drainage layer, they are required to maintain less than 12 inches of head.

Since leachate piezometer LPZ-E1 is continuously monitored by the SCADA system, the average monthly leachate levels are utilized to verify compliance. The piezometer was producing erroneous data during this reporting period through December 2024; therefore, a new transducer was installed in December 2024. The newly installed transducer in LPZ-E1 continued to produce incorrect readings; consequently, there is no data from LPZ-E1 for this reporting period. SCS is planning a site visit to diagnose the issue.

As noted in Evora Consulting's Response to the May 10, 2021, Comment Letter (Response Letter) dated June 1, 2021 (Doc #100598), LPZ-0 was further evaluated and did not appear to be damaged or kinked. The column thickness ranged from dry to 0.1 foot during this reporting period.

Leachate piezometer LPZ-1 was consistently dry since installation in 2011 through 2018. Starting with the November 2018 measurements, depth measurements decreased from 46 feet to measurements ranging from 17-19 feet, indicating an obstruction or kink in the piezometer casing. LPZ-1 was repaired as proposed in the Response Letter. Measurements at LPZ-1 in August 2023 that did appear to reach the bottom of the piezometer (depth measurement of 45.8 feet) showed a leachate thickness measurement exceeding 12 inches. During September 2024, an inspection with a well camera revealed a buildup within LPZ-1. Jetting was attempted subsequent to the inspection; however, the buildup was unable to be removed. SCS and the landfill operator will work together to assess whether the liquid level measurements will be able to get past the buildup. If the liquid level measurements are unable to get past the buildup, a grab sample of the buildup will be taken to assess how to dissolve it. A leachate thickness table and graphs for the South MSWLF unit are included in **Attachment B**.

1.2.2 North MSWLF Unit

Table 12 in **Attachment A** provides monthly leachate column thicknesses for the North MSWLF unit measured during this reporting period. Monthly measurements were supplied to SCS by the Agency; measurements marked "NM" were not available from the Agency. Due to landfill operator personnel changes during this reporting period, most of the monthly measurements were inadvertently missed. The leachate thicknesses measured in leachate piezometers LMW-2A and LMW-3A were within their historical ranges during this reporting period. The leachate thicknesses in LMW-4A were generally within the historical range. The leachate column thicknesses in LMW-4B were unavailable. The depth measurements of LMW-4B ranged from 7.7 feet to 9.8 feet, so it is likely the piezometer is damaged/obstructed as the constructed total depth was 37.4 feet. Measurement data for LMW-4B is therefore excluded from **Attachment A** and **Attachment B**. A leachate thickness table and graphs for the North MSWLF unit are included in **Attachment B**.

1.3 APPROVED CHANGES/MODIFICATIONS TO SYSTEM

As stated above, leachate piezometer LPZ-E1 was producing erroneous data; therefore, a new transducer was installed in December 2024.

On February 8, 2024, SCS and the Clinton County Solid Waste Agency (Agency) staff observed that the pump that draws leachate from the leachate lagoon into the sanitary sewer for disposal was not functioning. On February 26, 2024, a contractor successfully replaced the pump and the Agency resumed leachate pumping activities.

In correspondence dated March 6, 2024, the DNR approved the proposed leachate interceptor trench in the North MSWLF unit (Doc #109437) and construction began in November 2024.

1.4 PROPOSED CHANGES TO SYSTEM

- SCS recommends continuing to perform the following items to maintain the effectiveness of the leachate control system:
  - Resume monthly monitoring of the leachate levels as required in the facility permit. SCS will work with the personnel responsible for the monthly leachate level measurements to confirm correct measurement techniques are being performed.
  - SCS plans to make a site visit to diagnose the erroneous SCADA readings in leachate piezometer LPZ-E1.
  - Maintain good vegetation over the final cover and intermediate cover over the inactive and closed areas.
  - Continue operation and maintenance of the leachate control system in accordance with the approved Leachate Control System Plan.
  - Continue recording the volume of leachate discharged to the City of Clinton publicly-owned treatment works (POTW). An estimated 4,202,291 gallons were discharged during this reporting period based on monthly measurements received from the SCADA system.
  - Continue cleaning the leachate collection system once every three years, or more frequently if leachate head or the volume of leachate collected indicates cleaning is necessary. Cleaning was attempted in portions of the south MSWLF unit during the 2024 reporting period; however, it was unsuccessful, and further attempts will be made in 2025. LPZ-E1 and LPZ-1 were jetted during the 2024 reporting period; however, the buildup in LPZ-1 was unable to be removed. The camera was able to get past the buildup in LPZ-1; therefore, SCS and the landfill operator will work together to assess whether the liquid level measurements will be able to get past the buildup. If the liquid level measurements are unable to get past the buildup, a grab sample of the buildup will be taken to assess how to dissolve it.

Figures

Leachate Control System

Legend

- Leachate Control System Point
- Leachate Monitoring Location
- Leachate Monitoring Location
- Leachate Line - Solid
- Leachate Line - Perforated
- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximiate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

Figure 1

N W E S

0 260 520 1,040 1,560 Feet

SCS ENGINEERS
environmental consultants and contractors

Esri, CGIAR, USGS, Esri, TomTom, Garmin, Foursquare, FAO, METI/NASA, USGS, USDA NAIP, Iowa State University GIS Facility

Attachment A

Table 12 – Leachate Management Summary

Table 12
Leachate Management Summary
2024 Leachate Control System Performance Evaluation Report
Clinton County Sanitary Landfill - East, South MSWLF Unit
Permit No. 23-SDP-01-74P

Month	North MSWLF Unit			South MSWLF Unit					Discharge to City of Clinton POTW	Precipitation (in)
	LMW-2A	LMW-3A	LMW-4A	LMW-5AR	LMW-5B	LPZ-0	LPZ-1	LPZ-E1		
12/1/2023	NM	NM	NM	NM	NM	NM	NM	NM	0	2.13
1/6/2024	11.42	13.50	13.33	Frozen	3.08	Dry	Obstructed	NM	174,246	0.40
2/1/2024	NM	NM	NM	NM	NM	NM	NM	NM	385,273	0.11
3/20/2024	12.70	15.80	12.30	0.70	19.30	0.10	Obstructed	NM	619,880	2.09
4/1/2024	NM	NM	NM	NM	NM	NM	NM	NM	635,589	3.24
5/28/2024	12.70	14.40	13.00	0.50	22.70	Dry	Obstructed	NM	1,702,573	3.03
6/1/2024	NM	NM	NM	NM	NM	NM	NM	NM	334,881	1.49
7/1/2024	NM	NM	NM	NM	NM	NM	NM	NM	199,421	4.31
8/1/2024	NM	NM	NM	NM	NM	NM	NM	NM	142,760	3.80
9/1/2024	NM	NM	NM	NM	NM	NM	NM	NM	0	0.49
10/1/2024	NM	NM	NM	NM	NM	NM	NM	NM	0	0.95
11/1/2024	NM	NM	NM	NM	NM	NM	NM	NM	0	2.57
12/1/2024	NM	NM	NM	NM	NM	NM	NM	NM	7,668	0.00
								Reporting Period Total	4,202,291	24.61

Notes:
1) Leachate levels are measured by the contract operator.
2) NM - Not measured. Measurements were unavailable due to malfunctioning SCADA components or inadvertently missed.
3) LPZ-E1 is monitored by SCADA.
4) Discharge to the City of Clinton POTW is measured monthly by the SCADA system.
5) Precipitation data obtained from the Iowa State University Iowa Environmental Mesonet for Clinton, Iowa.
(https://mesonet.agron.iastate.edu/ASOS/reports/mon_prec.php)

Comments:
Reporting Period: December 2023 - December 2024.
Recommended Changes to Leachate Collection System: Please see the narrative portion of Appendix G.
Maintenance Performed on Leachate Collection System: Please see the narrative portion of Appendix G.
Last Date of Cleaning and Inspection: Attempted in 2024. Please see the narrative portion of Appendix G.
Date for Next Cleaning and Inspection: Leachate line cleaning will be attempted again in the 2025 reporting period.
Volume of Leachate Recirculated: Leachate is not recirculated.
Volume of Leachate Treated On-Site: Leachate is not treated on-site.
Volume of Leachate Treated Off-Site: An estimated total of approximately 4,202,291 gallons of leachate were discharged to the City of Clinton POTW during this reporting period.

Attachment B

Historical Leachate Column Thickness Tables and Graphs

Attachment B
Historical Leachate Piezometer Column Thicknesses and Elevations
Clinton County Sanitary Landfill - East
Permit No. 23-SDP-01-74P
Project No. 27223133.25

		North MSWLF Unit			South MSWLF Unit				
Date	Leachate well	LMW-2A	LMW-3A	LMW-4A	LMW-5A/5AR	LMW-5B	LPZ-0	LPZ-1	LPZ-E1
	TOC Elevation	727.42	716.83	718.46	723.51	743.76	692.92	715.84	NM
	Total Depth	31.8	35.2	20.5	54.2	39.6	9.0	46.0	65.6
10/15/2002	Column Thickness	17.55	21.85	25.90	NM	NM	NI	NI	NI
	Leachate Elevation	709.87	702.18	707.86	NA	NA	NA	NA	NA
9/8/2004	Column Thickness	15.85	NM	11.50	NM	NM	NI	NI	NI
	Leachate Elevation	711.52	NA	709.46	NA	NA	NA	NA	NA
9/6/2006	Column Thickness	15.75	19.80	11.50	7.90	Dry	NI	NI	NI
	Leachate Elevation	711.42	701.43	709.46	677.21	NA	NA	NA	NA
3/15/2007	Column Thickness	15.95	20.10	Dry	7.90	Dry	NI	NI	NI
	Leachate Elevation	711.62	701.73	NA	677.21	NA	NA	NA	NA
9/26/2007	Column Thickness	16.28	21.06	11.20	5.25	Dry	Dry	NI	NI
	Leachate Elevation	711.95	702.69	709.16	674.56	NA	NA	NA	NA
4/9/2008	Column Thickness	17.37	21.64	NM	NM	Dry	Dry	NI	NI
	Leachate Elevation	713.04	703.27	NA	NA	NA	NA	NA	NA
9/10/2008	Column Thickness	16.09	21.98	NM	9.20	Dry	Dry	NI	NI
	Leachate Elevation	711.76	703.61	NA	678.51	NA	NA	NA	NA
3/25/2009	Column Thickness	17.10	21.90	NM	Dry	Dry	0.25	NI	NI
	Leachate Elevation	712.77	703.53	NA	723.51	NA	684.22	NA	NA
9/2/2009	Column Thickness	17.11	22.88	NM	Dry	Dry	Dry	NI	NI
	Leachate Elevation	712.78	704.51	NA	723.51	NA	NA	NA	NA
2/6/2010	Column Thickness	17.05	22.80	12.30	9.20	Dry	Dry	NI	NI
	Leachate Elevation	712.72	704.43	710.26	678.51	NA	NA	NA	NA
3/15/2010	Column Thickness	17.87	26.15	12.48	9.38	Dry	0.31	NI	NI
	Leachate Elevation	713.54	707.78	710.44	678.69	NA	684.23	NA	NA
9/1/2010	Column Thickness	18.03	23.05	13.06	NM	Dry	Dry	NI	NI
	Leachate Elevation	713.70	704.68	711.02	NA	NA	NA	NA	NA
11/29/2010	Column Thickness	16.46	22.50	12.29	9.27	Dry	Dry	NI	NI
	Leachate Elevation	710.96	694.33	706.17	714.24	NA	NA	NA	NA
12/28/2010	Column Thickness	16.31	22.70	12.21	9.27	Dry	Dry	NI	NI
	Leachate Elevation	711.11	694.13	706.25	714.24	NA	NA	NA	NA
1/29/2011	Column Thickness	16.44	22.70	12.20	13.00	Dry	Dry	NI	NI
	Leachate Elevation	710.98	694.13	706.26	710.51	NA	NA	NA	NA
2/23/2011	Column Thickness	16.40	22.70	12.19	12.99	Dry	Dry	NI	NI
	Leachate Elevation	711.02	694.13	706.27	710.52	NA	NA	NA	NA
3/7/2011	Column Thickness	16.38	22.80	12.20	12.99	Dry	Dry	NI	NI
	Leachate Elevation	711.04	694.03	706.26	710.52	NA	NA	NA	NA
4/8/2011	Column Thickness	16.40	22.60	12.20	12.99	Dry	Dry	NI	NI
	Leachate Elevation	711.02	694.23	706.26	710.52	NA	NA	NA	NA
5/16/2011	Column Thickness	16.38	22.70	12.11	13.00	Dry	Dry	NI	NI
	Leachate Elevation	711.04	694.13	706.35	710.51	NA	NA	NA	NA
6/14/2011	Column Thickness	16.35	22.50	12.23	11.90	Dry	Dry	NI	NI
	Leachate Elevation	711.07	694.33	706.23	711.61	NA	NA	NA	NA
7/1/2011	Column Thickness	16.40	22.70	12.23	11.90	Dry	Dry	NI	NI
	Leachate Elevation	711.02	694.13	706.23	711.61	NA	NA	NA	NA
8/3/2011	Column Thickness	16.40	22.60	12.23	11.90	Dry	Dry	NI	NI
	Leachate Elevation	711.02	694.23	706.23	711.61	NA	NA	NA	NA
9/5/2011	Column Thickness	16.41	22.60	12.24	11.90	Dry	Dry	NI	NI
	Leachate Elevation	711.01	694.23	706.22	711.61	NA	NA	NA	NA
10/6/2011	Column Thickness	16.28	22.80	12.20	12.99	Dry	Dry	Dry	NI
	Leachate Elevation	711.14	694.03	706.26	710.52	NA	NA	NA	NA
11/11/2011	Column Thickness	16.30	22.90	12.30	13.00	Dry	Dry	Dry	NI
	Leachate Elevation	711.12	693.93	706.16	710.51	NA	NA	NA	NA
12/1/2011	Column Thickness	16.40	23.10	12.30	12.99	Dry	Dry	Dry	NI
	Leachate Elevation	711.02	693.73	706.16	710.52	NA	NA	NA	NA

Attachment B
Historical Leachate Piezometer Column Thicknesses and Elevations
Clinton County Sanitary Landfill - East
Permit No. 23-SDP-01-74P
Project No. 27223133.25

		North MSWLF Unit			South MSWLF Unit				
Date	Leachate well	LMW-2A	LMW-3A	LMW-4A	LMW-5A/5AR	LMW-5B	LPZ-0	LPZ-1	LPZ-E1
	TOC Elevation	727.42	716.83	718.46	723.51	743.76	692.92	715.84	NM
	Total Depth	31.8	35.2	20.5	54.2	39.6	9.0	46.0	65.6
1/15/2012	Column Thickness	16.50	22.70	12.30	12.40	Dry	Dry	Dry	NI
	Leachate Elevation	710.92	694.13	706.16	711.11	NA	NA	NA	NA
2/12/2012	Column Thickness	16.55	22.60	12.30	13.08	Dry	Dry	Dry	NI
	Leachate Elevation	710.87	694.23	706.16	710.43	NA	NA	NA	NA
3/5/2012	Column Thickness	16.45	22.50	12.35	13.08	Dry	Dry	Dry	NI
	Leachate Elevation	710.97	694.33	706.11	710.43	NA	NA	NA	NA
4/10/2012	Column Thickness	16.50	22.70	12.21	13.07	Dry	Dry	Dry	NI
	Leachate Elevation	710.92	694.13	706.25	710.44	NA	NA	NA	NA
5/20/2012	Column Thickness	16.45	22.60	12.25	13.10	Dry	Dry	Dry	NI
	Leachate Elevation	710.97	694.23	706.21	710.41	NA	NA	NA	NA
6/11/2012	Column Thickness	16.47	22.59	12.27	13.08	Dry	Dry	Dry	NI
	Leachate Elevation	710.95	694.24	706.19	710.43	NA	NA	NA	NA
7/8/2012	Column Thickness	16.51	22.65	12.23	13.08	Dry	Dry	Dry	NI
	Leachate Elevation	710.91	694.18	706.23	710.43	NA	NA	NA	NA
8/21/2012	Column Thickness	16.53	22.70	12.24	13.10	Dry	Dry	Dry	NI
	Leachate Elevation	710.89	694.13	706.22	710.41	NA	NA	NA	NA
9/14/2012	Column Thickness	16.50	22.60	12.28	13.07	Dry	Dry	Dry	NI
	Leachate Elevation	710.92	694.23	706.18	710.44	NA	NA	NA	NA
10/5/2012	Column Thickness	16.46	22.90	12.28	13.07	Dry	Dry	Dry	NI
	Leachate Elevation	712.13	704.53	710.24	682.38	NA	NA	NA	NA
11/8/2012	Column Thickness	16.45	23.00	12.30	13.08	Dry	Dry	Dry	NI
	Leachate Elevation	712.12	704.63	710.26	682.39	NA	NA	NA	NA
12/12/2012	Column Thickness	16.45	22.90	12.30	13.07	Dry	Dry	Dry	NI
	Leachate Elevation	712.12	704.53	710.26	682.38	NA	NA	NA	NA
1/6/2013	Column Thickness	15.91	21.94	12.40	9.64	0.28	Dry	Dry	NI
	Leachate Elevation	711.58	703.57	710.36	678.95	704.46	NA	NA	NA
2/5/2013	Column Thickness	15.91	22.00	12.40	9.64	0.28	Dry	Dry	NI
	Leachate Elevation	711.58	703.63	710.36	678.95	704.46	NA	NA	NA
3/15/2013	Column Thickness	15.91	21.94	12.40	9.64	0.28	Dry	Dry	NI
	Leachate Elevation	711.58	703.57	710.36	678.95	704.46	NA	NA	NA
4/10/2013	Column Thickness	15.91	21.92	12.40	9.62	0.28	Dry	Dry	NI
	Leachate Elevation	711.58	703.55	710.36	678.93	704.46	NA	NA	NA
5/6/2013	Column Thickness	15.91	21.95	12.40	9.65	0.28	Dry	Dry	NI
	Leachate Elevation	711.58	703.58	710.36	678.96	704.46	NA	NA	NA
6/13/2013	Column Thickness	15.91	21.95	12.40	9.65	0.28	Dry	Dry	NI
	Leachate Elevation	711.58	703.58	710.36	678.96	704.46	NA	NA	NA
7/5/2013	Column Thickness	15.92	21.95	12.40	9.70	0.28	Dry	Dry	NI
	Leachate Elevation	711.59	703.58	710.36	679.01	704.46	NA	NA	NA
8/13/2013	Column Thickness	15.93	21.96	12.40	9.70	0.28	Dry	Dry	NI
	Leachate Elevation	711.60	703.59	710.36	679.01	704.46	NA	NA	NA
8/22/2013	Column Thickness	15.93	NM	NM	NM	NM	NM	NM	NI
	Leachate Elevation	711.60	NA	NA	NA	NA	NA	NA	NA
9/5/2013	Column Thickness	15.87	21.94	12.50	9.64	0.28	Dry	Dry	NI
	Leachate Elevation	711.54	703.57	710.46	678.95	704.46	NA	NA	NA
10/10/2013	Column Thickness	15.94	21.94	12.50	9.64	0.28	Dry	Dry	NI
	Leachate Elevation	711.61	703.57	710.46	678.95	704.46	NA	NA	NA
11/25/2013	Column Thickness	15.95	21.92	12.00	9.80	0.28	Dry	Dry	NI
	Leachate Elevation	711.62	703.55	709.96	679.11	704.46	NA	NA	NA
12/5/2013	Column Thickness	15.95	21.90	11.80	9.85	0.28	Dry	Dry	NI
	Leachate Elevation	711.62	703.53	709.76	679.16	704.46	NA	NA	NA

Attachment B
Historical Leachate Piezometer Column Thicknesses and Elevations
Clinton County Sanitary Landfill - East
Permit No. 23-SDP-01-74P
Project No. 27223133.25

		North MSWLF Unit			South MSWLF Unit				
Date	Leachate well	LMW-2A	LMW-3A	LMW-4A	LMW-5A/5AR	LMW-5B	LPZ-0	LPZ-1	LPZ-E1
	TOC Elevation	727.42	716.83	718.46	723.51	743.76	692.92	715.84	NM
	Total Depth	31.8	35.2	20.5	54.2	39.6	9.0	46.0	65.6
1/30/2014	Column Thickness	15.95	21.90	11.70	9.82	0.28	Dry	Dry	NI
	Leachate Elevation	711.62	703.53	709.66	679.13	704.46	NA	NA	NA
2/28/2014	Column Thickness	16.40	NM	5.70	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	712.07	NA	703.66	679.51	NA	NA	NA	NA
3/13/2014	Column Thickness	16.60	NM	6.10	9.60	Dry	Dry	Dry	NI
	Leachate Elevation	712.27	NA	704.06	678.91	NA	NA	NA	NA
4/9/2014	Column Thickness	10.25	23.98	10.79	9.50	Dry	Dry	Dry	NI
	Leachate Elevation	705.92	705.61	708.75	678.81	NA	NA	NA	NA
5/15/2014	Column Thickness	10.45	24.00	11.30	9.50	Dry	Dry	Dry	NI
	Leachate Elevation	706.12	705.63	709.26	678.81	NA	NA	NA	NA
6/10/2014	Column Thickness	10.55	24.00	10.90	9.60	Dry	Dry	Dry	NI
	Leachate Elevation	706.22	705.63	708.86	678.91	NA	NA	NA	NA
7/22/2014	Column Thickness	10.75	24.20	11.10	9.90	Dry	Dry	Dry	NI
	Leachate Elevation	706.42	705.83	709.06	679.21	NA	NA	NA	NA
8/21/2014	Column Thickness	10.75	24.20	11.20	9.90	Dry	Dry	Dry	NI
	Leachate Elevation	706.42	705.83	709.16	679.21	NA	NA	NA	NA
9/15/2014	Column Thickness	10.75	24.20	11.10	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	706.42	705.83	709.06	679.51	NA	NA	NA	NA
10/13/2014	Column Thickness	10.75	24.20	11.40	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	706.42	705.83	709.36	679.51	NA	NA	NA	NA
11/25/2014	Column Thickness	10.75	24.20	10.60	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	706.42	705.83	708.56	679.51	NA	NA	NA	NA
12/10/2014	Column Thickness	10.75	24.00	11.20	10.00	Dry	Dry	Dry	NI
	Leachate Elevation	706.42	705.63	709.16	679.31	NA	NA	NA	NA
1/10/2015	Column Thickness	15.75	24.30	10.50	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	711.42	705.93	708.46	679.51	NA	NA	NA	NA
2/8/2015	Column Thickness	15.75	24.30	10.50	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	711.42	705.93	708.46	679.51	NA	NA	NA	NA
3/18/2015	Column Thickness	15.75	24.30	10.50	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	711.42	705.93	708.46	679.51	NA	NA	NA	NA
4/10/2015	Column Thickness	15.75	24.30	10.50	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	711.42	705.93	708.46	679.51	NA	NA	NA	NA
5/16/2015	Column Thickness	15.75	24.30	10.50	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	711.42	705.93	708.46	679.51	NA	NA	NA	NA
6/4/2015	Column Thickness	15.75	24.30	10.50	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	711.42	705.93	708.46	679.51	NA	NA	NA	NA
7/18/2015	Column Thickness	15.75	24.70	10.10	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	711.42	706.33	708.06	679.51	NA	NA	NA	NA
8/10/2015	Column Thickness	15.55	24.90	10.00	9.90	Dry	Dry	Dry	NI
	Leachate Elevation	711.22	706.53	707.96	679.21	NA	NA	NA	NA
9/22/2015	Column Thickness	15.75	25.00	10.20	9.90	Dry	Dry	Dry	NI
	Leachate Elevation	711.42	706.63	708.16	679.21	NA	NA	NA	NA
10/2/2015	Column Thickness	15.35	25.20	10.30	10.00	Dry	Dry	Dry	NI
	Leachate Elevation	711.02	706.83	708.26	679.31	NA	NA	NA	NA
11/18/2015	Column Thickness	15.25	25.00	10.10	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	710.92	706.63	708.06	679.51	NA	NA	NA	NA
12/2/2015	Column Thickness	15.35	24.90	10.40	10.20	Dry	Dry	Dry	NI
	Leachate Elevation	711.02	706.53	708.36	679.51	NA	NA	NA	NA

Attachment B
Historical Leachate Piezometer Column Thicknesses and Elevations
Clinton County Sanitary Landfill - East
Permit No. 23-SDP-01-74P
Project No. 27223133.25

		North MSWLF Unit			South MSWLF Unit				
Date	Leachate well	LMW-2A	LMW-3A	LMW-4A	LMW-5A/5AR	LMW-5B	LPZ-0	LPZ-1	LPZ-E1
	TOC Elevation	727.42	716.83	718.46	723.51	743.76	692.92	715.84	NM
	Total Depth	31.8	35.2	20.5	54.2	39.6	9.0	46.0	65.6
1/4/2016	Column Thickness	14.75	24.90	10.50	13.20	Dry	Dry	Dry	NI
	Leachate Elevation	710.42	706.53	708.46	682.51	NA	NA	NA	NA
2/8/2016	Column Thickness	14.45	25.20	10.30	12.20	Dry	Dry	Dry	NI
	Leachate Elevation	710.12	706.83	708.26	681.51	NA	NA	NA	NA
3/7/2016	Column Thickness	14.55	24.70	10.00	10.20	Dry	0.40	Dry	NI
	Leachate Elevation	710.22	706.33	707.96	679.51	NA	684.32	NA	NA
4/4/2016	Column Thickness	14.35	24.90	10.50	10.20	Dry	1.00	Dry	NI
	Leachate Elevation	710.02	706.53	708.46	679.51	NA	684.92	NA	NA
5/2/2016	Column Thickness	14.75	25.00	10.50	10.20	Dry	1.20	Dry	NI
	Leachate Elevation	710.42	706.63	708.46	679.51	NA	685.12	NA	NA
6/1/2016	Column Thickness	14.45	25.20	10.50	A	Dry	4.70	Dry	NI
	Leachate Elevation	710.12	706.83	708.46	A	NA	688.62	NA	NA
7/14/2016	Column Thickness	17.05	22.00	10.50	A	Dry	7.00	Dry	NI
	Leachate Elevation	712.72	703.63	708.46	A	NA	690.92	NA	NA
8/15/2016	Column Thickness	M	22.00	11.50	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	703.63	709.46	A	704.76	NA	NA	NA
9/13/2016	Column Thickness	M	22.30	12.50	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	703.93	710.46	A	704.76	NA	NA	NA
10/16/2016	Column Thickness	M	22.20	12.00	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	703.83	709.96	A	704.76	NA	NA	NA
11/1/2016	Column Thickness	M	22.40	12.50	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	704.03	710.46	A	704.76	NA	NA	NA
12/3/2016	Column Thickness	M	22.40	12.10	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	704.03	710.06	A	704.76	NA	NA	NA
1/6/2017	Column Thickness	M	22.70	12.50	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	704.33	710.46	A	704.76	NA	NA	NA
2/15/2017	Column Thickness	M	22.40	12.10	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	704.03	710.06	A	704.76	NA	NA	NA
3/8/2017	Column Thickness	M	22.40	12.10	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	704.03	710.06	A	704.76	NA	NA	NA
4/5/2017	Column Thickness	M	22.60	12.50	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	704.23	710.46	A	704.76	NA	NA	NA
5/6/2017	Column Thickness	M	22.70	12.50	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	704.33	710.46	A	704.76	NA	NA	NA
6/29/2017	Column Thickness	M	22.70	12.30	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	704.33	710.26	A	704.76	NA	NA	NA
7/3/2017	Column Thickness	M	22.70	12.50	A	0.58	Dry	Dry	NI
	Leachate Elevation	M	704.33	710.46	A	704.76	NA	NA	NA
8/16/2017	Column Thickness	M	22.20	12.50	A	0.28	Dry	Dry	NM
	Leachate Elevation	M	703.83	710.46	A	704.46	NA	NA	NA
9/28/2017	Column Thickness	M	22.70	12.20	A	0.28	Dry	Dry	NM
	Leachate Elevation	M	704.33	710.16	A	704.46	NA	NA	NA
10/5/2017	Column Thickness	M	22.60	12.30	A	0.18	Dry	Dry	NM
	Leachate Elevation	M	704.23	710.26	A	704.36	NA	NA	NA
11/27/2017	Column Thickness	M	22.80	12.50	A	0.58	Dry	Dry	NM
	Leachate Elevation	M	704.43	710.46	A	704.76	NA	NA	NA
12/1/2017	Column Thickness	M	22.90	12.30	A	0.58	Dry	Dry	NM
	Leachate Elevation	M	704.53	710.26	A	704.76	NA	NA	NA

Attachment B
Historical Leachate Piezometer Column Thicknesses and Elevations
Clinton County Sanitary Landfill - East
Permit No. 23-SDP-01-74P
Project No. 27223133.25

		North MSWLF Unit			South MSWLF Unit				
Date	Leachate well	LMW-2A	LMW-3A	LMW-4A	LMW-5A/5AR	LMW-5B	LPZ-0	LPZ-1	LPZ-E1
	TOC Elevation	727.42	716.83	718.46	723.51	743.76	692.92	715.84	NM
	Total Depth	31.8	35.2	20.5	54.2	39.6	9.0	46.0	65.6
1/16/2018	Column Thickness	M	22.60	12.10	A	0.58	Dry	Dry	0.04
	Leachate Elevation	M	704.23	710.06	A	704.76	NA	NA	NA
2/13/2018	Column Thickness	M	22.60	12.50	A	0.58	Dry	Dry	0.05
	Leachate Elevation	M	704.23	710.46	A	704.76	NA	NA	NA
3/12/2018	Column Thickness	M	22.80	11.90	A	0.58	Dry	Dry	0.04
	Leachate Elevation	M	704.43	709.86	A	704.76	NA	NA	NA
4/22/2018	Column Thickness	M	22.60	11.90	A	0.58	Dry	Dry	0.03
	Leachate Elevation	M	704.23	709.86	A	704.76	NA	NA	NA
5/18/2018	Column Thickness	M	22.60	12.20	A	0.58	Dry	Dry	0.04
	Leachate Elevation	M	704.23	710.16	A	704.76	NA	NA	NA
6/10/2018	Column Thickness	M	22.80	12.10	A	0.58	Dry	Dry	0.46
	Leachate Elevation	M	704.43	710.06	A	704.76	NA	NA	NA
7/1/2018	Column Thickness	M	NM	NM	A	NM	NM	NM	0.69
	Leachate Elevation	M	NA	NA	A	NA	NA	NA	NA
8/1/2018	Column Thickness	M	NM	NM	A	NM	NM	NM	0.70
	Leachate Elevation	M	NA	NA	A	NA	NA	NA	NA
9/13/2018	Column Thickness	17.05	21.30	11.90	1.07	1.28	2.10	NM	0.68
	Leachate Elevation	712.72	702.93	709.86	694.15	705.46	686.02	NA	NA
10/9/2018	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.82
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
11/16/2018	Column Thickness	16.85	22.00	11.80	0.97	1.18	2.00	NM	NM
	Leachate Elevation	712.52	703.63	709.76	694.05	705.36	685.92	NA	NA
12/1/2018	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
1/10/2019	Column Thickness	16.95	22.20	11.90	0.47	1.58	2.10	NM	0.24
	Leachate Elevation	712.62	703.83	709.86	693.55	705.76	686.02	NA	NA
2/27/2019	Column Thickness	17.05	Frozen	11.80	0.27	0.38	2.00	NM	0.47
	Leachate Elevation	712.72	NA	709.76	693.35	704.56	685.92	NA	NA
3/15/2019	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.43
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
4/7/2019	Column Thickness	16.75	22.60	11.50	0.37	1.38	1.80	NM	0.36
	Leachate Elevation	712.42	704.23	709.46	693.45	705.56	685.72	NA	NA
5/7/2019	Column Thickness	16.85	22.40	11.00	0.07	1.48	2.00	NM	0.39
	Leachate Elevation	712.52	704.03	708.96	693.15	705.66	685.92	NA	NA
6/3/2019	Column Thickness	17.15	25.20	11.30	Dry	1.48	2.20	NM	0.36
	Leachate Elevation	712.82	706.83	709.26	NA	705.66	686.12	NA	NA
7/15/2019	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.31
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
8/15/2019	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.28
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
9/15/2019	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.25
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
10/15/2019	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.24
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
11/16/2019	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.22
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
12/1/2019	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.21
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA

Attachment B
Historical Leachate Piezometer Column Thicknesses and Elevations
Clinton County Sanitary Landfill - East
Permit No. 23-SDP-01-74P
Project No. 27223133.25

		North MSWLF Unit			South MSWLF Unit				
Date	Leachate well	LMW-2A	LMW-3A	LMW-4A	LMW-5A/5AR	LMW-5B	LPZ-0	LPZ-1	LPZ-E1
	TOC Elevation	727.42	716.83	718.46	723.51	743.76	692.92	715.84	NM
	Total Depth	31.8	35.2	20.5	54.2	39.6	9.0	46.0	65.6
1/10/2020	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.20
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
2/27/2020	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.19
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
3/15/2020	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.16
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
4/26/2020	Column Thickness	16.95	25.10	11.20	0.47	1.28	2.50	NM	0.15
	Leachate Elevation	712.62	706.73	709.16	693.55	705.46	686.42	NA	NA
5/24/2020	Column Thickness	16.85	25.00	11.20	0.07	12.18	2.30	NM	0.14
	Leachate Elevation	712.52	706.63	709.16	693.15	716.36	686.22	NA	NA
6/19/2020	Column Thickness	16.75	25.20	11.20	0.37	12.08	2.50	NM	0.14
	Leachate Elevation	712.42	706.83	709.16	693.45	716.26	686.42	NA	NA
7/16/2020	Column Thickness	16.65	24.90	11.20	0.07	11.98	2.40	NM	0.13
	Leachate Elevation	712.32	706.53	709.16	693.15	716.16	686.32	NA	NA
8/13/2020	Column Thickness	16.95	25.30	11.30	1.57	12.38	2.60	NM	0.12
	Leachate Elevation	712.62	706.93	709.26	694.65	716.56	686.52	NA	NA
9/8/2020	Column Thickness	16.95	25.00	11.70	1.07	9.58	NM	NM	0.15
	Leachate Elevation	712.62	706.63	709.66	694.15	713.76	NA	NA	NA
10/15/2020	Column Thickness	17.05	22.10	13.20	Dry	0.58	NM	NM	0.15
	Leachate Elevation	712.72	703.73	711.16	NA	704.76	NA	NA	NA
11/27/2020	Column Thickness	16.15	22.60	11.50	Dry	Dry	NM	NM	0.27
	Leachate Elevation	711.82	704.23	709.46	NA	NA	NA	NA	NA
12/16/2020	Column Thickness	15.95	25.00	10.70	Dry	Dry	NM	NM	NM
	Leachate Elevation	711.62	706.63	708.66	NA	NA	NA	NA	NA
1/27/2021	Column Thickness	15.55	27.40	9.70	Dry	Dry	NM	NM	NM
	Leachate Elevation	711.22	709.03	707.66	NA	NA	NA	NA	NA
2/27/2021	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
3/15/2021	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
4/24/2021	Column Thickness	16.45	23.10	12.10	Dry	14.98	NM	NM	NM
	Leachate Elevation	712.12	704.73	710.06	NA	719.16	NA	NA	NA
5/6/2021	Column Thickness	16.95	22.40	11.00	Dry	0.58	NM	NM	NM
	Leachate Elevation	712.62	704.03	708.96	NA	704.76	NA	NA	NA
6/9/2021	Column Thickness	17.35	22.70	11.20	Dry	4.18	NM	NM	NM
	Leachate Elevation	713.02	704.33	709.16	NA	708.36	NA	NA	NA
7/7/2021	Column Thickness	17.55	23.10	11.50	Dry	6.08	Dry	NM	NM
	Leachate Elevation	713.22	704.73	709.46	NA	710.26	NA	NA	NA
8/9/2021	Column Thickness	14.75	23.60	13.60	Dry	7.18	Dry	NM	NM
	Leachate Elevation	710.42	705.23	711.56	NA	711.36	NA	NA	NA
9/8/2021	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
10/15/2021	Column Thickness	NM	NM	NM	NM	NM	NM	NM	Dry
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
11/10/2021	Column Thickness	15.75	NM	11.00	Dry	25.08	Dry	NM	NM
	Leachate Elevation	711.42	NA	708.96	NA	729.26	NA	NA	NA
12/10/2021	Column Thickness	15.85	NM	11.00	Dry	0.38	Dry	NM	NM
	Leachate Elevation	711.52	NA	708.96	NA	704.56	NA	NA	NA

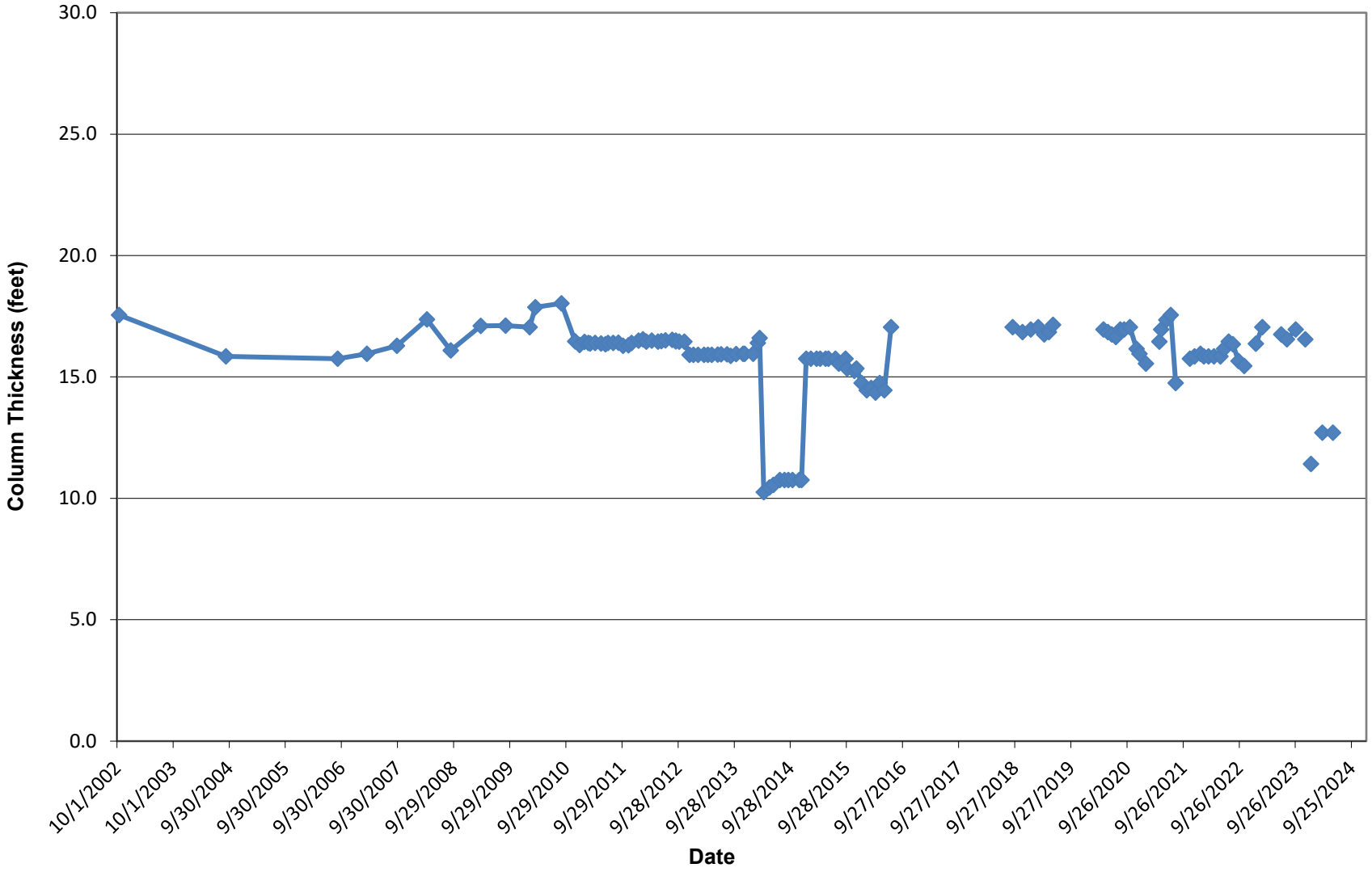
Attachment B
Historical Leachate Piezometer Column Thicknesses and Elevations
Clinton County Sanitary Landfill - East
Permit No. 23-SDP-01-74P
Project No. 27223133.25

		North MSWLF Unit			South MSWLF Unit				
Date	Leachate well	LMW-2A	LMW-3A	LMW-4A	LMW-5A/5AR	LMW-5B	LPZ-0	LPZ-1	LPZ-E1
	TOC Elevation	727.42	716.83	718.46	723.51	743.76	692.92	715.84	NM
	Total Depth	31.8	35.2	20.5	54.2	39.6	9.0	46.0	65.6
1/18/2022	Column Thickness	15.95	NM	10.30	Dry	Dry	Dry	NM	NM
	Leachate Elevation	711.62	NA	708.26	NA	NA	NA	NA	NA
2/8/2022	Column Thickness	15.85	NM	10.20	Dry	Dry	Dry	NM	NM
	Leachate Elevation	711.52	NA	708.16	NA	NA	NA	NA	NA
3/10/2022	Column Thickness	15.85	NM	10.20	Dry	Dry	Dry	NM	NM
	Leachate Elevation	711.52	NA	708.16	NA	NA	NA	NA	NA
4/15/2022	Column Thickness	15.85	NM	11.70	Dry	1.48	Dry	NM	NM
	Leachate Elevation	711.52	NA	709.66	NA	705.66	NA	NA	NA
5/27/2022	Column Thickness	15.85	NM	11.70	0.07	1.58	Dry	NM	NM
	Leachate Elevation	711.52	NA	709.66	693.15	705.76	NA	NA	NA
6/19/2022	Column Thickness	16.15	NM	10.50	0.07	2.98	Dry	NM	NM
	Leachate Elevation	711.82	NA	708.46	693.15	707.16	NA	NA	NA
7/19/2022	Column Thickness	16.45	NM	10.30	0.37	2.78	Dry	NM	NM
	Leachate Elevation	712.12	NA	708.26	693.45	706.96	NA	NA	NA
8/15/2022	Column Thickness	16.35	NM	10.10	Dry	2.68	Dry	NM	Dry
	Leachate Elevation	712.02	NA	708.06	NA	706.86	NA	NA	NA
9/22/2022	Column Thickness	15.65	NM	10.80	0.47	24.88	Dry	NM	Dry
	Leachate Elevation	711.32	NA	708.76	693.55	729.06	NA	NA	NA
10/15/2022	Column Thickness	15.45	NM	11.00	Dry	25.28	Dry	NM	Dry
	Leachate Elevation	711.12	NA	708.96	NA	729.46	NA	NA	NA
11/10/2022	Column Thickness	NM	NM	NM	NM	NM	NM	NM	Dry
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
12/10/2022	Column Thickness	NM	NM	NM	NM	NM	NM	NM	Dry
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
1/12/2023	Column Thickness	16.37	NM	13.91	0.29	2.19	Dry	NM	Dry
	Leachate Elevation	712.04	NA	711.87	693.37	706.37	NA	NA	NA
2/23/2023	Column Thickness	17.05	NM	13.64	Dry	2.17	Dry	NM	Dry
	Leachate Elevation	712.72	NA	711.60	NA	706.35	NA	NA	NA
3/10/2023	Column Thickness	NM	NM	NM	NM	NM	NM	NM	Dry
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
4/15/2023	Column Thickness	NM	NM	NM	NM	NM	NM	NM	Dry
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
5/27/2023	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.07
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	716.83
6/26/2023	Column Thickness	16.75	NM	12.50	Dry	2.78	Dry	NM	0.06
	Leachate Elevation	712.42	NA	710.46	NA	706.96	NA	NA	716.83
7/19/2023	Column Thickness	NM	NM	NM	NM	NM	NM	NM	0.06
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
8/2/2023	Column Thickness	16.55	23.20	12.50	Dry	16.58	Dry	7.10	0.05
	Leachate Elevation	712.22	704.83	710.46	NA	720.76	NA	716.83	716.83
9/29/2023	Column Thickness	16.95	22.80	11.60	0.27	10.48	Dry	NM	0.05
	Leachate Elevation	712.62	704.43	709.56	693.35	714.66	NA	NA	716.83
10/15/2023	Column Thickness	NM	NM	NM	NM	NM	NM	NM	1.60
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	716.83
11/29/2023	Column Thickness	16.55	23.20	11.90	0.37	2.28	Dry	NM	5.60
	Leachate Elevation	712.22	704.83	709.86	706.22	706.46	NA	NA	716.83
12/1/2023	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
1/6/2024	Column Thickness	11.42	13.50	13.33	Frozen	3.08	NM	Obstructed	NM
	Leachate Elevation	711.84	704.33	711.71	NA	707.51	NA	NA	NA
2/1/2024	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
3/20/2024	Column Thickness	12.70	15.80	12.30	0.70	19.30	0.10	Obstructed	NM
	Leachate Elevation	713.22	706.73	710.66	702.11	723.76	686.52	NA	NA
4/1/2024	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
5/28/2024	Column Thickness	12.70	14.40	13.00	0.50	22.70	Dry	Obstructed	NM
	Leachate Elevation	713.22	705.43	711.36	701.91	727.06	NA	NA	NA

Attachment B
Historical Leachate Piezometer Column Thicknesses and Elevations
Clinton County Sanitary Landfill - East
Permit No. 23-SDP-01-74P
Project No. 27223133.25

		North MSWLF Unit			South MSWLF Unit				
Date	Leachate well	LMW-2A	LMW-3A	LMW-4A	LMW-5A/5AR	LMW-5B	LPZ-0	LPZ-1	LPZ-E1
	TOC Elevation	727.42	716.83	718.46	723.51	743.76	692.92	715.84	NM
	Total Depth	31.8	35.2	20.5	54.2	39.6	9.0	46.0	65.6
6/1/2024	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
7/1/2024	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
8/1/2024	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
9/1/2024	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
10/1/2024	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
11/1/2024	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA
12/1/2024	Column Thickness	NM	NM	NM	NM	NM	NM	NM	NM
	Leachate Elevation	NA	NA	NA	NA	NA	NA	NA	NA

Notes: Liquid levels are measured by the contract operator.
NA - Not Available
NM - Not Measured
NI - Not Installed
D - Damaged Well
W - Well Destroyed
M - Well Unable to be Located
A - Abandoned


LMW-2A
Column Thickness (feet)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
10/1/2002
10/1/2003
9/30/2004
9/30/2005
9/30/2006
9/30/2007
9/29/2008
9/29/2009
9/29/2010
9/29/2011
9/28/2012
9/28/2013
9/28/2014
9/28/2015
9/27/2016
9/27/2017
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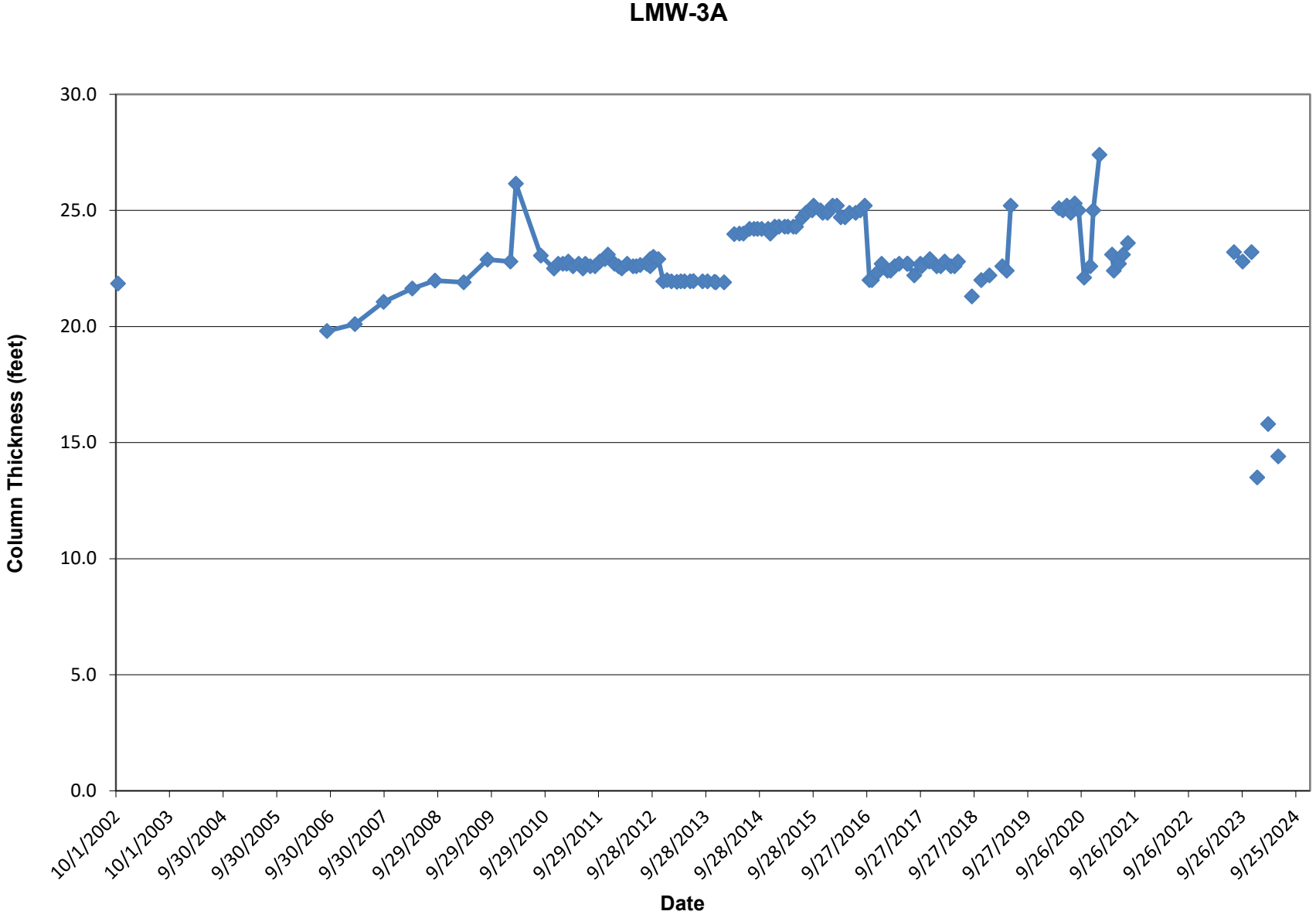
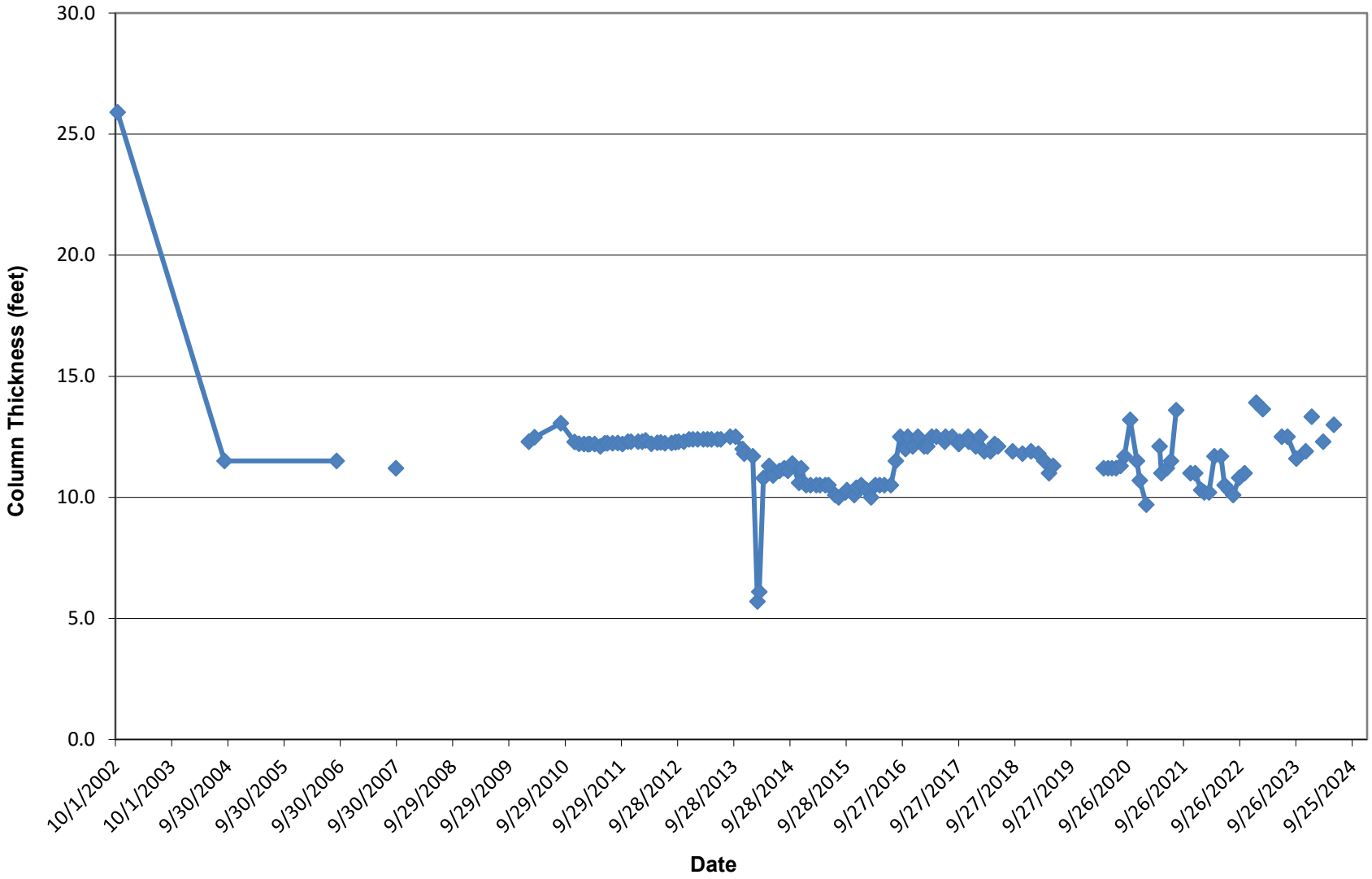
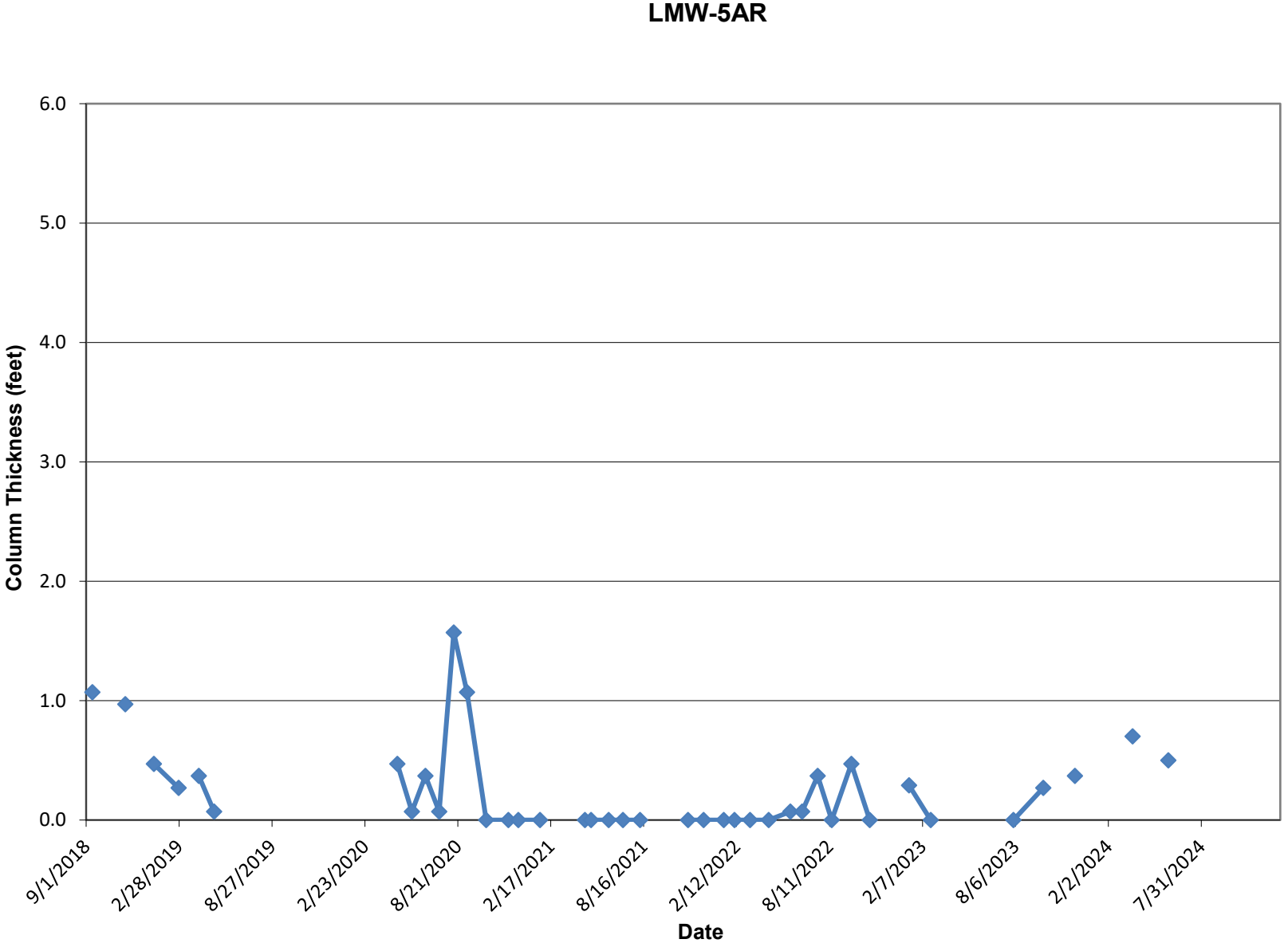
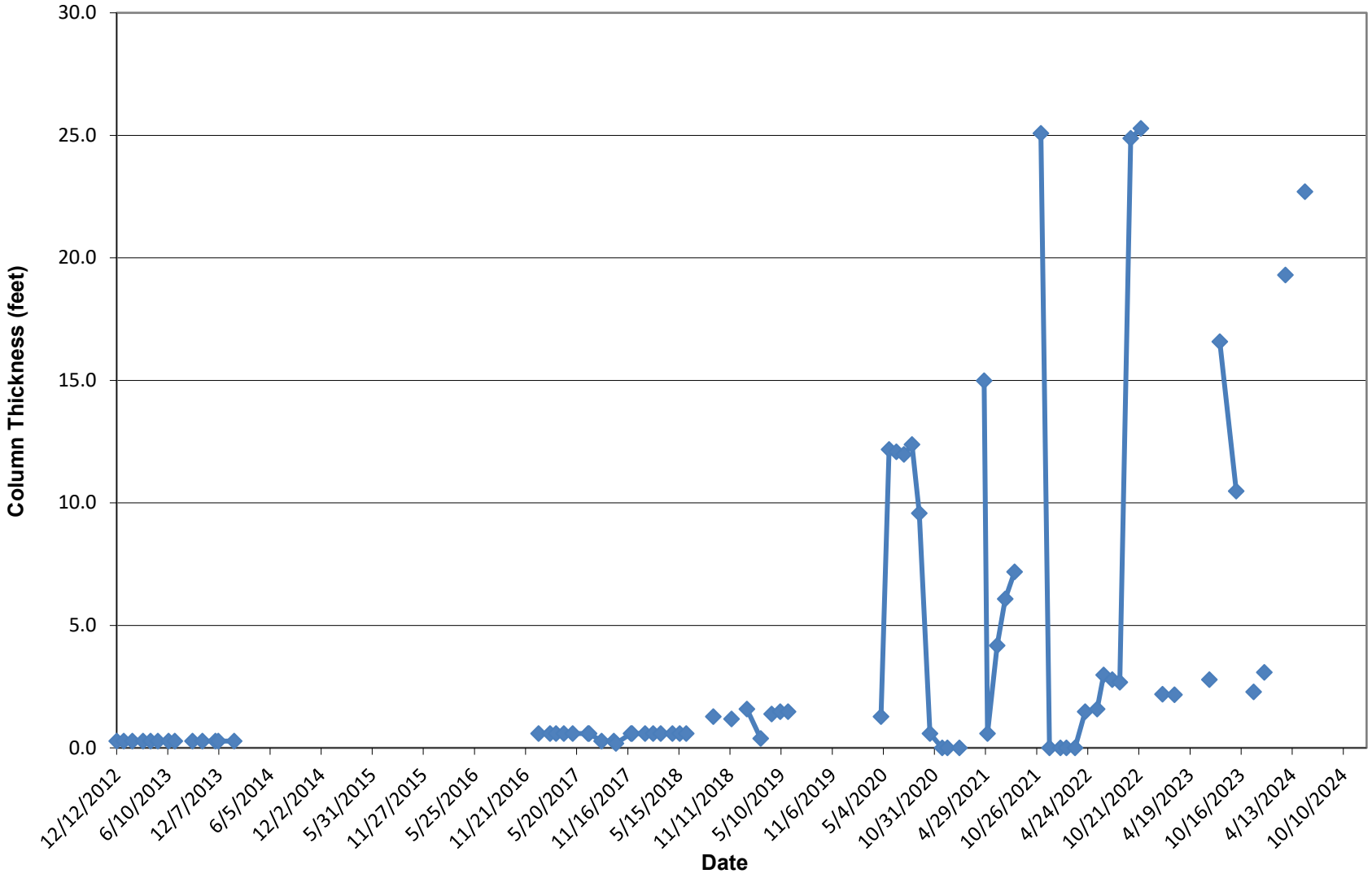
9/27/2019
9/26/2020
9/26/2021
9/26/2022
9/26/2023
9/25/2024
Date


LMW-3A
Column Thickness (feet)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
10/1/2002
10/1/2003
9/30/2004
9/30/2005
9/30/2006
9/30/2007
9/29/2008
9/29/2009
9/29/2010
9/29/2011
9/28/2012
9/28/2013
9/28/2014
9/28/2015
9/27/2016
9/27/2017
9/27/2018
9/27/2019
9/26/2020
9/26/2021
9/26/2022
9/26/2023
9/25/2024
Date


LMW-4A
Column Thickness (feet)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
10/1/2002
10/1/2003
9/30/2004
9/30/2005
9/30/2006
9/30/2007
9/29/2008
9/29/2009
9/29/2010
9/29/2011
9/28/2012
9/28/2013
9/28/2014
9/28/2015
9/27/2016
9/27/2017
9/27/2018
9/27/2019
9/26/2020
9/26/2021
9/26/2022
9/26/2023
9/25/2024
Date


LMW-5AR
Column Thickness (feet)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
9/1/2018
2/28/2019
8/27/2019
2/23/2020
8/21/2020
2/17/2021
8/16/2021
2/12/2022
8/11/2022
2/7/2023
8/6/2023
2/2/2024
7/31/2024
Date


LMW-5B
Column Thickness (feet)
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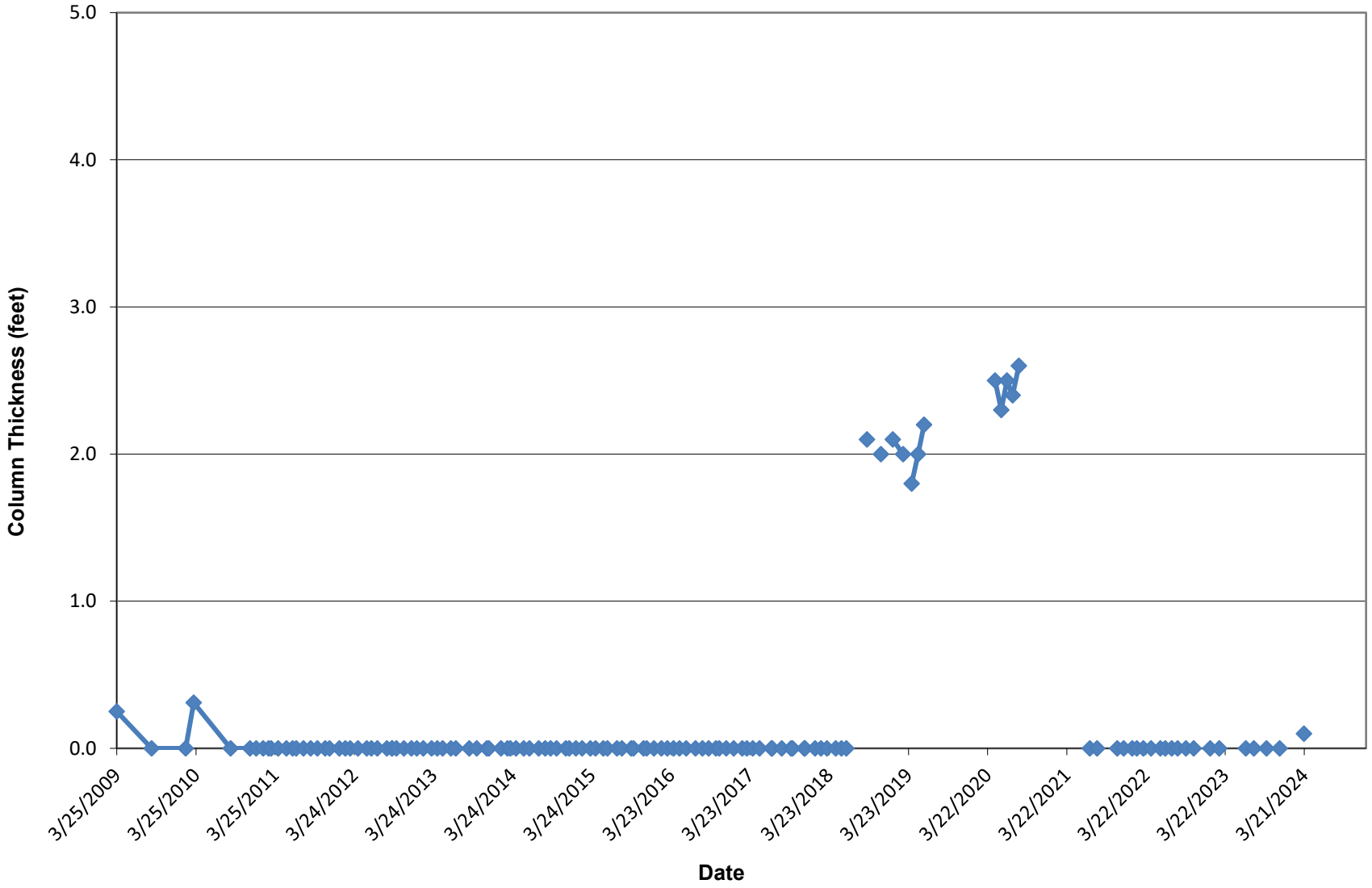
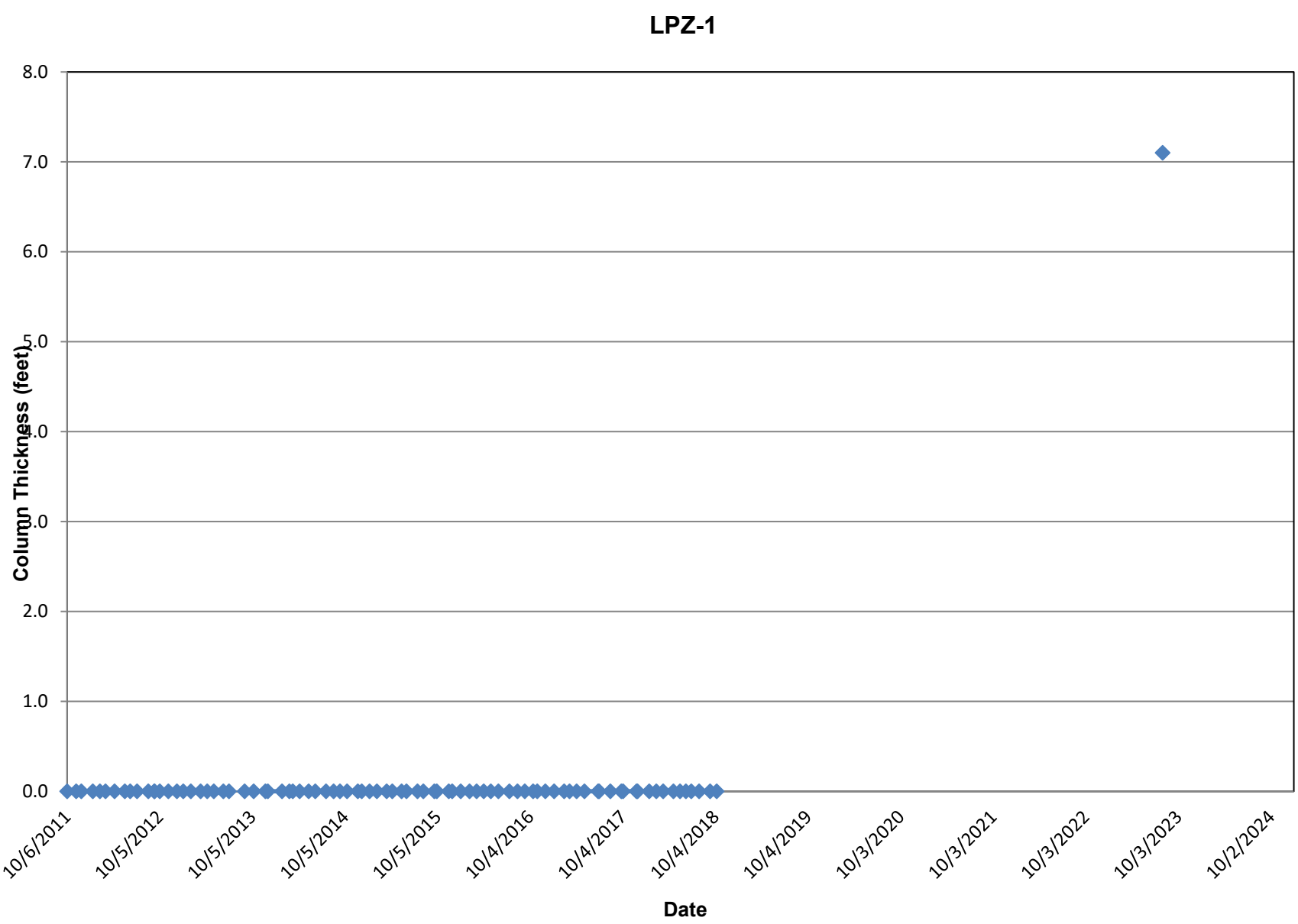
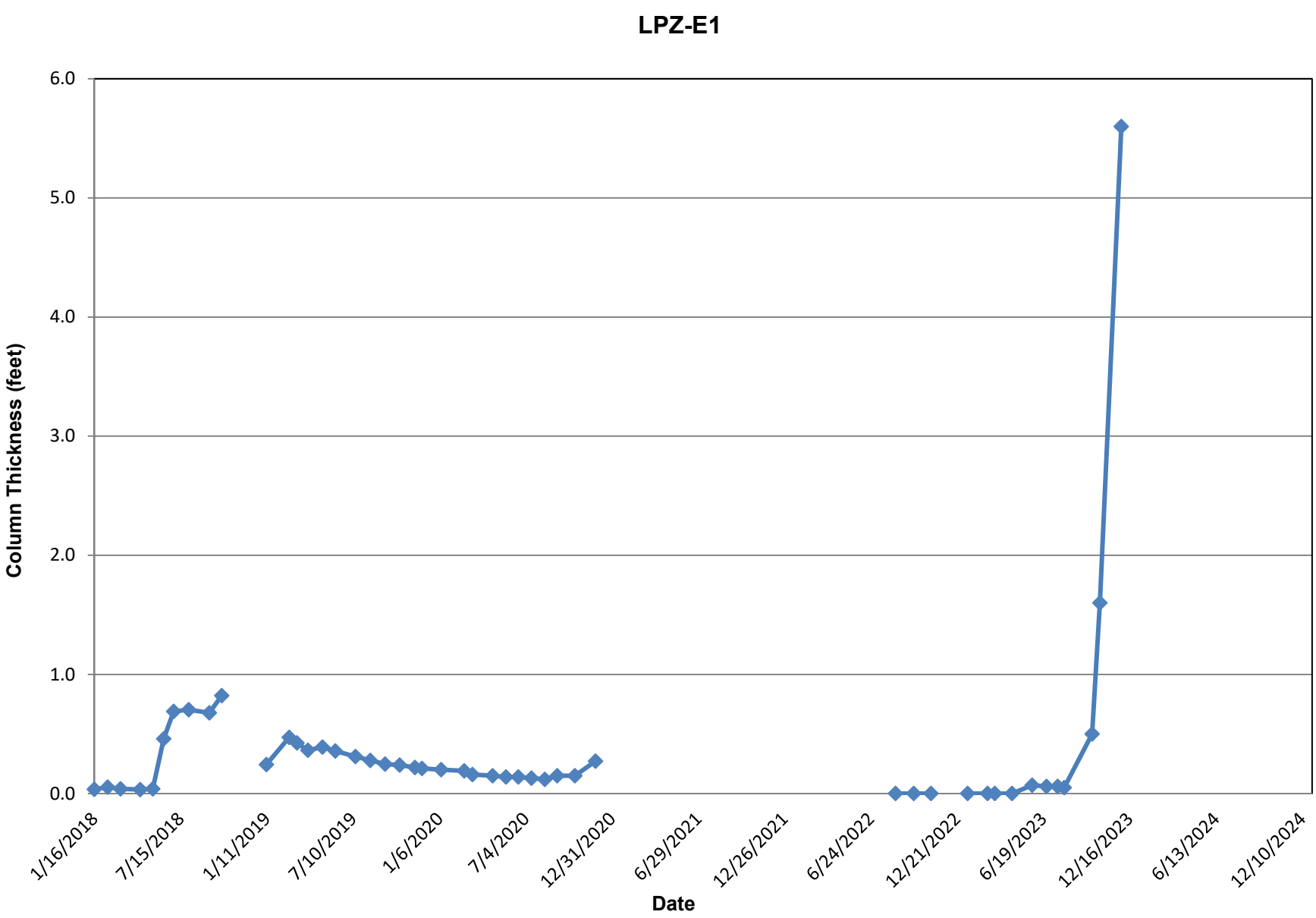
25.0
20.0
15.0
10.0
5.0
0.0
12/12/2012
6/10/2013
12/7/2013
6/5/2014
12/2/2014
5/31/2015
11/27/2015
5/25/2016
11/21/2016
5/20/2017
11/16/2017
5/15/2018
11/11/2018
5/10/2019
11/6/2019
5/4/2020
10/31/2020
4/29/2021
10/26/2021
4/24/2022
10/21/2022
4/19/2023
10/16/2023
4/13/2024
10/10/2024
Date


LPZ-0
Column Thickness (feet)
5.0
4.0
3.0
2.0
1.0
0.0
3/25/2009
3/25/2010
3/25/2011
3/24/2012
3/24/2013
3/24/2014
3/24/2015
3/23/2016
3/23/2017
3/23/2018
3/23/2019
3/22/2020
3/22/2021
3/22/2022
3/22/2023
3/21/2024
Date


LPZ-1
Column Thickness (feet)
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
10/6/2011
10/5/2012
10/5/2013
10/5/2014
10/5/2015
10/4/2016
10/4/2017
10/4/2018
10/4/2019
10/3/2020
10/3/2021
10/3/2022
10/3/2023
10/2/2024
Date


LPZ-E1
Column Thickness (feet)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
1/16/2018
7/15/2018
1/11/2019
7/10/2019
1/6/2020
7/4/2020
12/31/2020
6/29/2021
12/26/2021
6/24/2022
12/21/2022
6/19/2023
12/16/2023
6/13/2024
12/10/2024
Date

Appendix H

2024 Landfill Gas Annual Report

Gas Monitoring Summary
2024 Gas Monitoring Report
Clinton County Sanitary Landfill - East
Permit No. 23-SDP-01-74P

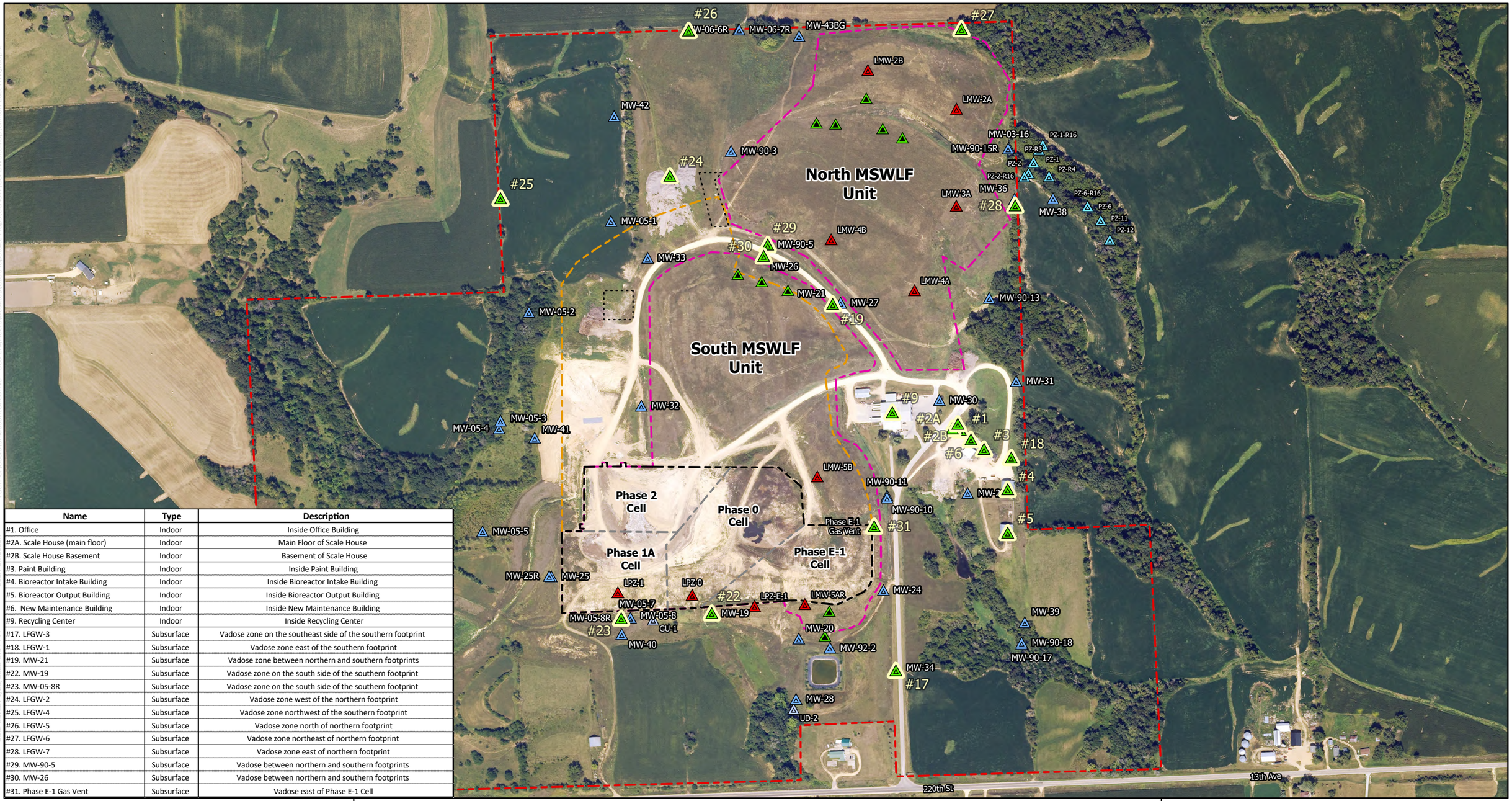
Monitoring Points			Methane Results (% LEL)							
Name	Type	Description	3/19/2024 - S (Y/N)		5/8/2024 - S (Y/N)		9/13/2024 - S (Y/N)		11/4/2024 -S (Y/N)	
#1. Office	Indoor	Inside Office Building	0		0		0		0	
#2A. Scale House (main floor)	Indoor	Main Floor of Scale House	0		0		0		0	
#2B. Scale House Basement	Indoor	Basement of Scale House	0		0		0		0	
#3. Paint Building	Indoor	Inside Paint Building	0		0		0		0	
#4. Bioreactor Intake Building	Indoor	Inside Bioreactor Intake Building	0		0		0		0	
#5. Bioreactor Output Building	Indoor	Inside Bioreactor Output Building	0		0		0		0	
#6. New Maintenance Building	Indoor	Inside New Maintenance Building	0		0		0		0	
#9. Recycling Center	Indoor	Inside Recycling Center	0		0		0		0	
#17. LFGW-3	Subsurface	Vadose zone on the southeast side of the southern footprint	0	N	0	N	0	N	0	N
#18. LFGW-1	Subsurface	Vadose zone east of the southern footprint	0	N	1	N	0	N	0	N
#19. MW-21	Subsurface	Vadose zone between northern and southern footprints	>100	N	>100	N	>100	N	>100	N
#22. MW-19	Subsurface	Vadose zone on the south side of the southern footprint	0	N	0	N	0	N	0	N
#23. MW-05-8R	Subsurface	Vadose zone on the south side of the southern footprint	0	N	0	N	6	N	0	N
#24. LFGW-2	Subsurface	Vadose zone west of the northern footprint	1	Y	0	Y	0	Y	0	Y
#25. LFGW-4	Subsurface	Vadose zone northwest of the southern footprint	0	N	0	N	0	N	NM	N
#26. LFGW-5	Subsurface	Vadose zone north of northern footprint	0	N	0	N	0	N	0	N
#27. LFGW-6	Subsurface	Vadose zone northeast of northern footprint	0	N	0	N	0	N	0	N
#28. LFGW-7	Subsurface	Vadose zone east of northern footprint	0	N	0	N	0	N	0	N
#29. MW-90-5	Subsurface	Vadose between northern and southern footprints	5	Y	4	Y	0	Y	0	Y
#30. MW-26	Subsurface	Vadose between northern and southern footprints	7	N	1	N	>100	N	1	N
#31 Phase E-1 Gas Vent	Subsurface	Vadose zone venting waste from original southern footprint	7		>100		>100		>100	

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

NM - Not measured, inaccessible.

The monitoring points with methane exceedances during this reporting period, monitoring points MW-21 (#19), MW-26 (#30), and Phase E-1 Gas Vent (#31), are not located in close proximity to the property boundary. After methane exceedances during the 2011 reporting period, bracketing subsurface monitoring points LFGW-4 (#25), LFGW-5 (#26), LFGW-6 (#27), and LFGW-7 (#28) were installed near the property boundary. These points measured 0% of the LEL during each of the 2024 monitoring events with the exception of monitoring point LFGW-4 (#25) during the Q4 monitoring event; therefore, an action level exceedance did not occur.

Monitoring of the Phase E-1 Gas Vent (#31) for methane was approved in lieu of annual air sampling as part of the corrective action groundwater monitoring program (CAMP) in the revised permit dated July 29, 2022 (Doc #103747).



Name	Type	Description
#1. Office	Indoor	Inside Office Building
#2A. Scale House (main floor)	Indoor	Main Floor of Scale House
#2B. Scale House Basement	Indoor	Basement of Scale House
#3. Paint Building	Indoor	Inside Paint Building
#4. Bioreactor Intake Building	Indoor	Inside Bioreactor Intake Building
#5. Bioreactor Output Building	Indoor	Inside Bioreactor Output Building
#6. New Maintenance Building	Indoor	Inside New Maintenance Building
#9. Recycling Center	Indoor	Inside Recycling Center
#17. LFGW-3	Subsurface	Vadose zone on the southeast side of the southern footprint
#18. LFGW-1	Subsurface	Vadose zone east of the southern footprint
#19. MW-21	Subsurface	Vadose zone between northern and southern footprints
#22. MW-19	Subsurface	Vadose zone on the south side of the southern footprint
#23. MW-05-8R	Subsurface	Vadose zone on the south side of the southern footprint
#24. LFGW-2	Subsurface	Vadose zone west of the northern footprint
#25. LFGW-4	Subsurface	Vadose zone northwest of the southern footprint
#26. LFGW-5	Subsurface	Vadose zone north of northern footprint
#27. LFGW-6	Subsurface	Vadose zone northeast of northern footprint
#28. LFGW-7	Subsurface	Vadose zone east of northern footprint
#29. MW-90-5	Subsurface	Vadose between northern and southern footprints
#30. MW-26	Subsurface	Vadose between northern and southern footprints
#31. Phase E-1 Gas Vent	Subsurface	Vadose east of Phase E-1 Cell

SCS ENGINEERS
environmental consultants and contractors

Methane Monitoring Network

Legend

- Methane Monitoring Location
- Monitoring Well
- Groundwater Underdrain
- Groundwater Piezometer
- Leachate Monitoring Location
- Gas Vent
- Petroleum Contaminated Soils Area
- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximiate Cell Boundary
- Approximate Current Waste Boundary
- Approximate Phase Boundary

Clinton County Sanitary Landfill - East
South MSWLF Unit
Clinton, Iowa
Project No: 27223133.25
Drawing Date: January 2025

Figure 1

N W E S

0 260 520 1,040 1,560 Feet