November 8, 2024
File No. 27224044.00

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

Subject: 2024 Annual Water Quality Report,
2024 Leachate Control System Performance Evaluation Report,
& 2024 Landfill Gas Annual Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Dear Mick:

SCS Engineers has completed the monitoring and evaluation for the ADM-Clinton Landfill for reporting year 2024. Our services were performed in general accordance with the requirements of the 1989 Iowa Administrative Code (IAC) 567-103 and the closure permit and subsequent amendment requirements for implementation of the Hydrologic Monitoring System Plan (HMSP). Please find enclosed a copy of the 2024 Annual Water Quality Report, the 2024 Leachate Control System Performance Evaluation Report, and the 2024 Landfill Gas Monitoring Report.

If you have any questions about these reports, please contact us as noted below.

Sincerely,

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

ADM-Clinton Landfill
Solid Waste Permit No. 23-SDP-05-88C

Prepared for:

Archer-Daniels-Midland Company

SCS ENGINEERS

27224044.00 | November 2024

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CERTIFICATION

Prepared by: _____ Date: 11/8/2024

Typed: Semir Omerovic

Reviewed by: _____ Date: 11/8/2024

Typed: Timothy C. Buelow, P.E.

Certification page (115.26(8)"d")

An annual report summarizing the effect of the facility on groundwater and surface water quality shall be submitted to the department each year. The summary is to be prepared by an engineer registered in the state of Iowa.

LICENSED PROFESSIONAL ENGINEER Timothy C. Buelow 14445 IOWA	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: 11/8/2024 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

SCS Engineers (SCS), on behalf of Archer-Daniels-Midland (ADM), has completed the required groundwater sampling for the ADM-Clinton Landfill (Landfill) for the calendar year 2024 reporting period. The purpose of this Annual Water Quality Report (AWQR) is to document and statistically evaluate the groundwater sampling results since the 2023 AWQR up to and including the spring and fall 2024 semi-annual sampling events. This AWQR was prepared in accordance with the requirements of the 1989 Iowa Administrative Code (IAC) 567-103, the site closure permit, and subsequent correspondence and amendment requirements for implementation of the Hydrologic Monitoring System Plan (HMSP).

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the 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: Closed, Closure Permit.
- Types of waste accepted: Industrial.
- Applicable IAC rules: 1989 IAC 567-103.

ES.4 COMMENTS

The following summarizes points of special emphasis:

- Groundwater analytical results during this reporting period were similar to the previous reporting period. Based on the monitoring results, the Landfill appears to have limited impact on groundwater quality downgradient of the site. However, because of the limited extent and nature of the impact, the stability of the concentrations in groundwater, the industrial nature of the surrounding area, and the local hydrogeologic conditions, it appears that no additional sampling or site assessment is warranted at this time.

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1.0 ACRONYMS/ABBREVIATIONS

AL = Action Level
CCV = Continuing Calibration Verification
CL = Control Limit - Mean plus Two Standard Deviations
DNR = Iowa Department of Natural Resources
DO = Dissolved Oxygen
GWPS = Groundwater Protection Standard
GWQAP = Groundwater Quality Assessment Plan
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LCS = Laboratory Control Sample
LN = Lognormal
M+/-2SD = Mean Plus/Minus Two Standard Deviations
MCL = EPA Maximum Contaminant Level
MDL = Method Detection Limit
N = Normal
NC = No Change
NM = Not Measured
ORP = Oxidation-Reduction Potential
PL = Prediction Limit
QA = Quality Assurance
QC = Quality Control
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)
TSS = Total Suspended Solids
UCL = Upper Confidence Limit
VOC = Volatile Organic Compound

2.0 SITE BACKGROUND

2.1 SITE LOCATION

The ADM-Clinton Landfill (Landfill) is located on the south side of Highway 30 between Beaver Channel Parkway and the Mississippi River. The Landfill is situated in the north half of Section 23, T81N, R6E, in Clinton County, Iowa.

2.2 FACILITY

The Landfill was operated by ADM from approximately 1982 to 1989. Before ADM, Clinton Corn performed filling activities at the Landfill site for an undetermined period. Fill materials placed in the Landfill have reportedly consisted of coal combustion residue, construction rubble, and river clarification solids generated during river water treatment for wet corn mill processing at the ADM plant.

Historically, fill material was placed at the Landfill site and on the properties adjoining to the northeast, northwest, and southwest. Fill material placed in these areas was of an unknown source and was not associated with ADM's landfilling activities.

2.3 GEOLOGY AND HYDROGEOLOGY OF THE SITE

In the document titled ADM – Clinton Plant Existing Fly Ash Landfill Revised Hydrogeologic Investigation Report and Hydrologic Monitoring System Plan, dated November 20, 1992 by Terracon Environmental, Inc., hereafter referred to as the 1992 Revised HIR, the following geological description was provided:

> *The site is situated in the valley of the Mississippi River and comprises an area considered floodplain prior to dike construction and landfill activities. Beaver Slough, an active meander arm of the Mississippi River, forms the eastern boundary of the site from northeast to the southwest. The site is located in the extreme eastern arm of a physiographic province known as the Iowa Erosional Surface (or the Iowan Surface). The Iowa Erosional Surface extends across most of northeast Iowa and is characterized by a maturely dissected pre-Illinoisan glacial till plain. Typically overlying the glacial till is a Wisconsinian Age loess cover of approximately sixteen (16) feet. Topography of the region is generally undulating with low relief.*
>
> *Where the site is not filled it is generally overlain with a thin layer of till. This till is encountered beneath the fill (both landfilled waste and levee fill). This layer ranges from approximately two (2) inches to ten (10) feet. The till overlies a thin spotty layer of brown sand observed in a number of borings. The thickness of this unit ranges from one (1) foot to fifteen (15) feet. Sand was observed in borings MW-1, MW-4, MW-6, MW-7, MW-10, and MW-16. Below the fill and sand unit, a weathered dolomitic limestone was encountered. The thickness of this layer was not determined as it extended beyond the deepest borings of fifty-five (55) feet.*

2.4 HYDROLOGY OF THE SITE

According to the 1992 Revised HIR, the following hydrologic information was provided for the perched water table flow and potential leachate migration:

The perched water table flow inside the landfill as interpolated from monitoring well data obtained on August 16, 1991, is depicted on Figure 12, Appendix A and is radially outward from the landfill. Temporal data provided in Table 3; Appendix B indicated that this radially outward flow pattern was present during the period that water elevations were recorded. Seasonal fluctuations in the perched water elevations are most likely due to varying amounts of rainfall, surface flow infiltration and the moisture content of landfilled materials.

The largest contributor of the perched liquid during the period that the landfill was being used was most likely the river mud that remained after river water had been clarified for plant use. This river mud generally contained approximately eighty percent (80%) moisture when it was deposited in the landfill as reported in the pending CPCP for the landfill. Final moisture content of the river mud is on the order of twenty-five percent (25%). Rain and groundwater infiltration, and surface runoff into the landfill also contributed to the liquid content of the landfill during the operational life of the landfill.

The perched liquid in the landfill can generally be characterized by definition as leachate although no current chemical laboratory analytical data is available to characterize its potential impact to groundwater quality beneath the landfill. Leachate, by definition, is generated by liquid that has entered the landfill as it moves down through the landfill.

Based on the observed anisotropy (Kh/Kv) of the clay beneath the landfill, movement of the liquid through the landfill should be primarily horizontal rather than vertical. Using results of the laboratory and field hydraulic conductivity measurements of samples taken from MW-7A, the anisotropy in the clay was estimated to be on the order of 11,800/1. Based on this anisotropy and current groundwater movement at the landfill, the major potential pathway that liquid in the landfill would follow would be through the fill toward Beaver Slough. Other pathways include leachate seeps from the side slopes of the landfill. Leachate seeps have been noted at the landfill after heavy rainstorms.

The minimum five (5) foot separation as required in IAC 103.2(1)m(2) does not appear to exist at the site. Should leachate migration occur into the deeper bedrock aquifer and an impact to the groundwater beneath the landfill occurs, these occurrences should be detected in the perimeter monitoring wells during the routine post closure monitoring outlined in the Hydrologic Monitoring System Plan (HMSP), Appendix H. If problems are detected, remedial measures can be implemented by ADM.

According to the 1992 Revised HIR, the following hydrologic information was provided for the shallow clay and sand units and bedrock aquifer:

Temporal groundwater fluctuations in the shallow sand unit and in the uppermost bedrock aquifer generally vary with the Mississippi River stage with seasonal fluctuations in monitoring wells MW-11 and MW-12 due to surface runoff.

Groundwater potentiometric contour maps as interpolated from August 16, 1991, data for the shallow sand unit and the bedrock aquifer are included as Figure 13 and Figure 14, Appendix A, respectively. General horizontal groundwater flow patterns in the shallow units and the deeper bedrock beneath the landfill appear to be

southeasterly across the landfill during much of the study period (3/22/91 - 8/16/91) toward Beaver Slough.

A slight northerly horizontal component of flow was noted during the April 12, 1991, and the August 16, 1991 water level measurement sampling events at the northern tip of the landfill. The flow reversal during the April 12, 1991 event was most likely due to increased surface runoff causing the water level in MW-1 to rise faster than the water level in MW-11. The flow reversal during the August 16, 1991 event was most likely due to the water level in MW-11 falling as a result of relatively low rainfall infiltration while MW-1 continued to be influenced by up-flowing recharge from the underlying bedrock unit. Figure 13, Appendix A shows this northerly flow component at the extreme northern tip of the landfill for the August 16, 1991 data. Horizontal flow reversal to the north will tend to increase leachate migration in that direction during and following prolonged periods of heavy precipitation.

Vertical movement in the units beneath the landfill along the northwestern boundary at the site appears to be generally dependent on the same factors described as influencing horizontal flow in this area (i.e. seasonal variations in rainfall and/or surface drainage through the drainage ditch). Vertical movement along the northwestern boundary appears to be generally upward along this border during most of the water level measurement events as noted in well clusters MW-11/14 and MW-12/15. This upward flow path appears to be related to a gaining reach in the drainage channel that runs northward along the perimeter of the landfill in this area.

Vertical flow reversal has been noted during the March 25, 1991, water level measurement event in well cluster MW-11/14 and during the March water level measurement events in well cluster MW-12/15. This is believed to be due to excessive rainfall or large surface drainage events such as snowmelt runoff accumulating in the drainage ditch along the northwestern boundary of the landfill and causing a downward vertical movement as evidenced by the water level in the shallow wells (MW-11 and MW-12) apparently increasing faster than the water levels in the deeper wells.

Upward vertical flow along the northwestern boundary of the landfill in the bedrock should cause a groundwater barrier along this boundary. This groundwater barrier should impede leachate migration from the landfill horizontally along much of this barrier. Leachate migration should be detected within the proposed monitoring system should detectable leachate migration occur.

Stage fluctuation in Beaver Slough is expected to influence the piezometric levels in the bedrock and overlying units on the basis of increasing hydraulic delay effect as distance from the slough increases. During high water periods, the magnitude of the downward gradient over most of the landfill should diminish and perhaps temporarily reverse given a prolonged flood event. In the northern tip of the landfill the normal upward gradient could be exaggerated. The horizontal flow path could also temporarily reverse 180 degrees with generalized flow going to the northwest across the entire site.

When the slough potentiometric level is lower than the adjoining aquifer, most of the landfill would experience vertical downward gradients, but, because of the high anisotropy, the three-dimensional flow would remain primarily horizontal toward the slough. During these periods, the northern tip of the landfill could experience a

reversal to a downward vertical gradient and horizontal flow in this area could also reverse toward the southeast, back beneath the landfill toward the slough. Both of these phenomena depend almost entirely on the stage of Beaver Slough and the adjoining Mississippi River.

Notes:

1. The referenced figures and appendices contained in the above citations are not included in this report.
2. Referenced well clusters in the above citations have been renamed. Refer to Figure 4 of the 1992 ADM-Clinton Plant Existing Fly Ash Landfill Revised Hydrogeologic Investigation Report and Hydrologic Monitoring System Plan for the location of these monitoring well clusters.

3.0 FIGURES DISCUSSION

The following figures are attached.

3.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and hydrologic monitoring system plan (HMSP) network is depicted in **Figure 1**. **Figure 1** indicates the locations of each monitoring well and its respective monitoring program as of the beginning of this reporting period.

3.2 FIGURE 2 – UNCONSOLIDATED AQUIFER GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured in the unconsolidated aquifer and the Landfill piezometers during the July 2024 groundwater sampling event is included in **Figure 2**. When considering only the groundwater monitoring well water levels, **Figure 2** indicates a generally northerly flow direction away from the Mississippi River; however, incorporation of leachate levels into the contour development as shown in **Figure 2** indicates potential mounding at multiple locations, creating the appearance of localized areas of radial outward gradients within the fill area footprint. It should be noted that when considering the leachate elevations in the contour development, it is not known if the leachate elevations measured in the piezometers are the result of the intersection of perched leachate zones within the waste mass, a fully saturated waste mass in the vicinity of the monitoring points, or whether the leachate is in hydraulic communication with the groundwater.

3.3 FIGURE 3 – BEDROCK AQUIFER GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured in the bedrock aquifer during the July 2024 groundwater sampling event is included in **Figure 3**. **Figure 3** indicates a generally northerly flow direction away from the Mississippi River.

4.0 QA/QC SUMMARY

Date indicates the date(s) of sampling.

4.1 APRIL 10, 2024 (2024 SPRING SAMPLING EVENT)

Based on the QA review, no samples were rejected as unusable due to QC failures. In general, the quality of the analytical data for this sampling event does not appear to have been compromised by analytical irregularities (with the exception of the typical preservation issues that appear to be related to the basic nature of the samples) and results affected by QC anomalies are qualified with the appropriate data flags, which are listed in the laboratory report in Appendix B-1. Data validation documentation can be found in Appendix B-2.

4.2 JULY 17, 2024 (2024 FALL SAMPLING EVENT)

Based on the QA review, no samples were rejected as unusable due to QC failures. In general, the quality of the analytical data for this sampling event does not appear to have been compromised by analytical irregularities (with the exception of the typical preservation issues that appear to be related to the basic nature of the samples) and results affected by QC anomalies are qualified with the appropriate data flags, which are listed in the laboratory report in Appendix B-1. Data validation documentation can be found in Appendix B-2.

5.0 DATA EVALUATION

Statistical evaluation in accordance with requirements of the 1989 IAC 567-103.2(8)"d" was conducted for the groundwater analytical data collected during the 2024 semi-annual sampling events. The statistical evaluation for samples collected during the 2024 semi-annual sampling events is located in **Appendix D** of this report.

5.1 DATA EVALUATION

Groundwater monitoring for the Landfill consists of sampling from two aquifers. The unconsolidated aquifer contains two upgradient monitoring wells located on the north and northeast sides of the Landfill and eight downgradient monitoring wells; one located on the southeast side, two located along the south side, two located on the southwest side, one located on the west side, and two located on the northwest side of the Landfill. The bedrock aquifer contains two upgradient monitoring wells located on the north and northeast sides of the Landfill and six downgradient monitoring wells; one located on the southeast side, two located along the south side, two located on the southwest side, and one located on the northwest side of the Landfill.

A total of 96 control limit exceedances were detected based on spring and fall 2024 sampling results as listed in **Table 1** compared to 82 control limit exceedances detected based on spring and fall 2023 sampling results reported in the 2023 AWQR, not counting total suspended solids or PAHs. Most of the control limit exceedances detected based on 2024 sampling results were attributed to the unconsolidated aquifer.

Exceedances of action or advisory levels were largely associated with arsenic, boron, cobalt, manganese, and nitrogen-ammonia as listed in **Table 9**. It should be noted that, in addition to the action or advisory level exceedances shown in **Table 9**, the action or advisory level for cobalt was exceeded in upgradient monitoring well MW-18 and the action or advisory level for manganese was exceeded in upgradient monitoring wells MW-2 and MW-17 based on a review of concentrations listed in the Summary of Groundwater Chemistry in **Appendix C**.

5.2 TRENDING IN MONITORING WELLS

Statistically significant decreasing trends at a 99% confidence level (α=0.01) were identified in three monitoring well/constituent pairs by Mann-Kendall analysis during this reporting period. Statistically significant increasing trends at a 99% confidence level (α=0.01) were identified in three monitoring well/constituent pairs by Mann-Kendall analysis during this reporting period. The trend analysis is included in **Attachment A** of **Appendix D** of this report. The statistically significant trends were as follows:

Monitoring Point	Constituent	Trend
MW-5	Boron	Increasing
MW-5	Magnesium	Increasing
MW-9	Total Phenols	Decreasing
MW-12	Chloride	Decreasing
MW-12	Magnesium	Decreasing
MW-18	Sulfate	Increasing

Although not necessarily statistically significant, the Mann-Kendall statistics can provide an indication of general trending in the data. Trend indications for wells in the monitoring program are

shown in the table below. The statistics used to develop the general trending differ from the Mann-Kendall statistics used in the diagnostics section of the statistical evaluation in that a much lower trend threshold is applied for the general trending information (α=0.20 versus α=0.01). Trends classified as decreasing or increasing exhibited a statistically significant trend with 80% confidence using the most recent eight data points. Trends classified as stable did not exhibit a statistically significant trend with 80% confidence using the eight most recent data points. A summary of Mann-Kendall statistics by constituent in each monitoring point is included in **Appendix E** of this report.

Trending in Compliance Monitoring Wells					
Aquifer	**Monitoring Well**	**Decreasing Trends**	**Stable Trends**	**Increasing Trends**	**Number of Constituents Evaluated**
Unconsolidated Aquifer	MW-2 (u)	20.00%	70.00%	10.00%	10
	MW-18 (u)	0.00%	90.91%	9.09%	11
	MW-3	0.00%	81.82%	18.18%	11
	MW-5	9.09%	54.55%	36.36%	11
	MW-7	9.09%	90.91%	0.00%	11
	MW-9	22.22%	72.22%	5.56%	18
	MW-11	25.00%	56.25%	18.75%	16
	MW-13	0.00%	90.91%	9.09%	11
	MW-14	0.00%	60.00%	40.00%	10
	MW-16	20.00%	40.00%	40.00%	5
Bedrock Aquifer	MW-1 (u)	0.00%	100.00%	0.00%	6
	MW-17 (u)	0.00%	100.00%	0.00%	8
	MW-4	0.00%	66.67%	33.33%	6
	MW-6	41.67%	58.33%	0.00%	12
	MW-8	0.00%	71.43%	28.57%	7
	MW-10	10.00%	70.00%	20.00%	10
	MW-12	72.73%	18.18%	9.09%	11
	MW-15	0.00%	90.00%	10.00%	10
Combined	**Site Wide**	**14.67%**	**70.65%**	**14.67%**	**184**

(u) indicates an upgradient monitoring point.

Review of the Mann-Kendall statistics indicated that approximately 85% of the Mann-Kendall statistics were considered stable or decreasing following the 2024 annual statistical evaluation with one of the decreasing trends being pH. There were 28 monitoring well/constituent pairs with generally increasing trends. The monitoring well/constituent pairs with increasing trends and with decreasing pH trends are discussed in the following table.

Aquifer	Monitoring Well	Constituent Name	Comments
Unconsolidated Aquifer	MW-2 (u)	COD	Based on 5 actual detections and 3 non-detections. All concentrations were within historical range.

Aquifer	Monitoring Well	Constituent Name	Comments
	MW-18 (u)	Sulfate	Based on eight actual detections. Highest concentration of 82.6 mg/L measured in spring 2024.
	MW-3	Arsenic	Based on eight actual detections. Highest concentration of 0.0272 mg/L measured in fall 2024.
	MW-3	Chloride	Based on eight actual detections. Highest concentration of 420 mg/L measured in spring 2024.
	MW-5	Arsenic	Based on eight actual detections. Highest concentration of 0.051 mg/L measured in fall 2024.
	MW-5	Boron	Based on eight actual detections. All concentrations were within the historical range.
	MW-5	Cobalt	Based on eight actual detections. Highest concentration of 0.013 mg/L detected in fall 2024.
	MW-5	Magnesium	Based on eight actual detections. Highest concentration of 514 mg/L measured in fall 2024. These detections were below the historical maximum of 523 mg/L measured in fall 2018.
	MW-9	Cobalt	Based on four actual detections and four J flag detections. Highest concentration of 0.00547 mg/L measured in spring 2023.
	MW-11	Arsenic	Based on eight actual detections. Highest concentration of 0.0849 mg/L measured in fall 2023.
	MW-11	Boron	Based on six actual detections, one J flag detection, and one non-detection. Highest concentration of 1.74 mg/L measured in fall 2024.
	MW-11	Manganese	Based on eight actual detections. Highest concentration of 1.3 mg/L measured in fall 2024. These detections were below the historical maximum of 2.13 mg/L measured in fall 2018.
	MW-13	Chloride	Based on eight actual detections. All concentrations were within historical range.
	MW-14	Chloride	Based on eight actual detections. Highest concentration of 493 mg/L measured in fall 2023.
	MW-14	Magnesium	Based on eight actual detections. Highest concentration of 113 mg/L measured in fall 2023.
	MW-14	Specific Conductance	Based on eight measurements. All measurements were within the historical range.

Aquifer	Monitoring Well	Constituent Name	Comments
	MW-14	Sulfate	Based on eight actual detections. Highest concentration of 206 mg/L measured in fall 2024.
	MW-16	Chloride	Based on eight actual detections. Highest concentration of 360 mg/L measured in spring 2024.
	MW-16	Sulfate	Based on eight actual detections. Highest concentration of 436 mg/L measured in spring 2024.
Bedrock Aquifer	MW-4	Chloride	Based on eight actual detections. Highest concentration of 197 mg/L measured in fall 2023.
	MW-4	pH (decreasing)	Based on eight actual detections. Range of pH measurements between 6.92 and 7.73 S.U.
	MW-4	Specific Conductance	Based on eight measurements. All measurements were within the historical range.
	MW-8	Chloride	Based on eight actual detections. All concentrations were within the historical range.
	MW-8	Specific Conductance	Based on eight measurements. All measurements were within the historical range.
	MW-10	Boron	Based on eight actual detections. Highest concentration of 1.67 mg/L measured in fall 2024.
	MW-10	Iron	Based on four actual detections and two non-detections. Highest concentration of 1.4 mg/L measured in fall 2024.
	MW-12	Sulfate	Based on seven actual detections and one non-detection. Highest concentration of 23.2 mg/L measured in fall 2024.
	MW-12	pH	Based on eight measurements. All measurements were within the historical range.
	MW-15	COD	Based on three actual detections and five non-detections. All trend concentrations were within the historical range.

A total of 28 increasing constituent trends and one decreasing pH trend were measured at an 80% confidence level in 2024 compared to 21 increasing constituent trends and zero decreasing pH trends measured at an 80% confidence level in 2023, not including TSS. It should be noted that two of the increasing trends measured at 80% confidence level in 2024 were found in upgradient monitoring wells.

6.0 RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

Groundwater analytical results during this reporting period were similar to the previous reporting period. Based on the monitoring results, the Landfill appears to have limited impact on groundwater quality downgradient of the site. However, because of the limited extent and nature of the impact, the stability of the concentrations in groundwater, the industrial nature of the surrounding area, and the local hydrogeologic conditions, it appears that no additional sampling or site assessment is warranted at this time.

6.2 PROPOSED MONITORING

The groundwater monitoring program is summarized in Table 1. No changes to the HMSP monitoring program are recommended at this time. It is recommended that sampling continue for calendar year 2025 as summarized in Table 2.

6.3 PROPOSED MONITORING WELL CHANGES

Monitoring well performance is summarized in Table 4. No changes to the monitoring wells are recommended at this time.

Tables

Table 1
Monitoring Program Summary
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Monitoring Well	Formation	Current Monitoring Program	Change for Next Sampling Event	Control Limit Exceedances	Total Number of Samples in Each Monitoring Program Since January 1, 2018		
					Routine	Supplemental	Remedial Action
Unconsolidated Aquifer							
MW-2	Formation Info Not Found	Background	None	N/A	14	-	-
MW-18	Formation Info Not Found	Background	None	N/A	14	-	-
MW-3	Formation Info Not Found	Detection	None	Boron, Chloride, Cobalt, Iron, Magnesium, Manganese, Specific Conductance	13	-	-
MW-5	Formation Info Not Found	Detection	None	Arsenic, Boron, COD, Chloride, Cobalt, Iron, Magnesium, Manganese, Nitrogen-Ammonia, Specific Conductance, Sulfate	13	-	-
MW-7	Formation Info Not Found	Detection	None	Arsenic, Boron, COD, Chloride, Cobalt, Iron, Magnesium, Nitrogen-Ammonia, Specific Conductance	13	-	-
MW-9	Formation Info Not Found	Detection	None	Arsenic, Boron, COD, Magnesium, Manganese, Nitrogen-Ammonia, Specific Conductance, Sulfate	13	-	-
MW-11	Formation Info Not Found	Detection	None	Arsenic, Boron, COD, Chloride, Cobalt, Iron, Magnesium, Manganese, Nitrogen-Ammonia, Specific Conductance	14	-	-
MW-13	Formation Info Not Found	Detection	None	Arsenic, Boron, COD, Chloride, Iron, Magnesium, Manganese, Nitrogen-Ammonia, Specific Conductance, Sulfate	14	-	-
MW-14	Formation Info Not Found	Detection	None	Boron, Chloride, Magnesium, Manganese, Nitrogen-Ammonia, Specific Conductance, Sulfate	14	-	-
MW-16	Formation Info Not Found	Detection	None	Chloride, Sulfate	14	-	-
Bedrock Aquifer							
MW-1	Dolomitic Limestone	Background	None	N/A	13	-	-
MW-17	Dolomitic Limestone	Background	None	N/A	13	-	-
MW-4	Dolomitic Limestone	Detection	None	None	13	-	-
MW-6	Dolomitic Limestone	Detection	None	Arsenic, Boron, COD, Chloride, Cobalt, Iron, Magnesium, Nickel, Nitrogen-Ammonia, Specific Conductance, Sulfate	13	-	-
MW-8	Dolomitic Limestone	Detection	None	None	13	-	-
MW-10	Dolomitic Limestone	Detection	None	Boron, Cobalt, Iron, Nitrogen-Ammonia, Sulfate	13	-	-
MW-12	Dolomitic Limestone	Detection	None	Arsenic, Boron, COD, Chloride, Cobalt, Iron, Magnesium, Nitrogen-Ammonia, Specific Conductance	13	-	-
MW-15	Dolomitic Limestone	Detection	None	Arsenic, Boron, COD, Cobalt, Iron, Magnesium, Nitrogen-Ammonia, Sulfate	13	-	-

Notes: Control limit exceedances listed are based on at least one exceedance during the reporting period.

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Regime	Monitoring Well	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents	
		4/10/2024	7/17/2024	2025 Spring Event	2025 Fall Event
Unconsolidated Aquifer	MW-2 (u)	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, Total Phenols	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, Total Phenols
	MW-18 (u)	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, Total Phenols	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, Total Phenols
	MW-3	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS
	MW-5	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS
	MW-7	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, Total phenols, bis[2-ethylhexyl]phthalate	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, Total phenols, bis[2-ethylhexyl]phthalate
	MW-9	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, Total phenols, bis[2-ethylhexyl]phthalate, EPA 8260 (VOCs)	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, Total phenols, bis[2-ethylhexyl]phthalate, EPA 8260 (VOCs)
	MW-11	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, EPA 8260 (VOCs)	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, EPA 8260 (VOCs)
	MW-13	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS
	MW-14	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS
	MW-16	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS

Notes: Sampling for dissolved iron was replaced with sampling for total iron beginning in 2023.

Table 2 - continued
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No.23-SDP-05-88C

Regime	Monitoring Well	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents	
		4/10/2024	7/17/2024	2025 Spring Event	2025 Fall Event
Bedrock Aquifer	MW-1 (u)	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS
	MW-17 (u)	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS
	MW-4	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS
	MW-6	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, Ni, SO4), ORP, DO, TSS
	MW-8	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, SO4), ORP, DO, TSS
	MW-10	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS
	MW-12	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, EPA 8260 (VOCs)	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, Mn, SO4), ORP, DO, TSS, EPA 8260 (VOCs)
	MW-15	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, SO4), ORP, DO, TSS	IAC 103.2(4)"e", Total Inorganics(As, B, Co, Mg, SO4), ORP, DO, TSS
Leachate	Wet Well	Ammonia, Kjeldahl Nitrogen, Total Phenols, TSS, TS, CBOD, Nitrate, Chloride, Sulfate, Total Cyanide, EPA 8270D (SVOC's), EPA 8260C (VOC's), Total Inorganics (Al, AR, Bo, Cd, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Zn)	None	None	None

Notes: Wet well sampled once every two years.
Sampling for dissolved iron was replaced with sampling for total iron beginning in 2023.
DO - Dissolved Oxygen
ORP - Oxidation-Reduction Potential
TSS - Total Suspended Solids
VOC - Volatile Organic Compound

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Compliance with:	2022	2023	2024	2025
567 IAC 110.9(2)"a" high and low water levels (annually)	Completed	Completed	Included	Scheduled
567 IAC 110.9(2)"b" changes in the hydrologic setting and flow paths	Completed	Completed	Included	Scheduled
567 IAC 110.9(2)"c" well depths	Completed	Completed	Included	Scheduled
567 IAC 110.9(2)"d" well recharge rates [1]		Completed		Scheduled

Notes:

[1] In-situ permeability testing was replaced with biennial well recharge rate evaluation in DNR correspondence dated January 17, 2018 (Doc# 91298).

Table 4
Monitoring Well Performance and Maintenance Summary
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Regime	Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements 7/17/2024	Maximum Depth Discrepancy (ft)
Unconsolidated Aquifer	MW-2	584.49	580.83	14.5	Groundwater Level (ft)	3.59	1.3
					Groundwater Elevation (Ft MSL)	580.90	
					Measured Well Depth (ft)	13.2	
					Submerged screen	Y	
	MW-18	584.44	577.69	17.5	Groundwater Level (ft)	2.65	-0.2
					Groundwater Elevation (Ft MSL)	581.79	
					Measured Well Depth (ft)	17.7	
					Submerged screen	Y	
	MW-3	595.05	575.75	29.3	Groundwater Level (ft)	12.16	3.1
					Groundwater Elevation (Ft MSL)	582.89	
					Measured Well Depth (ft)	26.2	
					Submerged screen	Y	
	MW-5	596.17	579.56	27.5	Groundwater Level (ft)	13.56	-0.4
					Groundwater Elevation (Ft MSL)	582.61	
					Measured Well Depth (ft)	27.9	
					Submerged screen	Y	
	MW-7	595.15	575.77	30.0	Groundwater Level (ft)	15.48	-1.0
					Groundwater Elevation (Ft MSL)	579.67	
					Measured Well Depth (ft)	31.0	
					Submerged screen	Y	
	MW-9	594.20	574.44	30.8	Groundwater Level (ft)	11.80	0.0
					Groundwater Elevation (Ft MSL)	582.40	
					Measured Well Depth (ft)	30.8	
					Submerged screen	Y	
	MW-11	589.82	579.82	20.0	Groundwater Level (ft)	6.26	0.0
					Groundwater Elevation (Ft MSL)	583.56	
					Measured Well Depth (ft)	20.0	
					Submerged screen	Y	
	MW-13	589.93	577.53	23.2	Groundwater Level (ft)	8.73	-0.2
					Groundwater Elevation (Ft MSL)	581.20	
					Measured Well Depth (ft)	23.4	
					Submerged screen	Y	
	MW-14	587.06	580.06	17.0	Groundwater Level (ft)	5.42	-0.3
					Groundwater Elevation (Ft MSL)	581.64	
					Measured Well Depth (ft)	17.3	
					Submerged screen	Y	
	MW-16	585.06	579.00	17.0	Groundwater Level (ft)	4.84	0.1
					Groundwater Elevation (Ft MSL)	580.22	
					Measured Well Depth (ft)	16.9	
					Submerged screen	Y	

Table 4 - continued
Monitoring Well Performance and Maintenance Summary
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Regime	Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements 7/17/2024	Maximum Depth Discrepancy (ft)
Bedrock Aquifer	MW-1	585.49	558.57	37.8	Groundwater Level (ft)	4.27	0.2
					Groundwater Elevation (Ft MSL)	581.22	
					Measured Well Depth (ft)	37.6	
					Submerged screen	Y	
	MW-17	582.74	557.31	37.8	Groundwater Level (ft)	1.99	3.7
					Groundwater Elevation (Ft MSL)	580.75	
					Measured Well Depth (ft)	34.1	
					Submerged screen	Y	
	MW-4	595.30	521.02	85.1	Groundwater Level (ft)	12.69	9.3
					Groundwater Elevation (Ft MSL)	582.61	
					Measured Well Depth (ft)	75.8	
					Submerged screen	Y	
	MW-6	596.22	553.98	53.0	Groundwater Level (ft)	13.94	-0.9
					Groundwater Elevation (Ft MSL)	582.28	
					Measured Well Depth (ft)	53.9	
					Submerged screen	Y	
	MW-8	595.19	535.36	70.5	Groundwater Level (ft)	12.18	5.7
					Groundwater Elevation (Ft MSL)	583.01	
					Measured Well Depth (ft)	64.8	
					Submerged screen	Y	
	MW-10	594.01	556.63	48.2	Groundwater Level (ft)	11.47	-0.1
					Groundwater Elevation (Ft MSL)	582.54	
					Measured Well Depth (ft)	48.3	
					Submerged screen	Y	
	MW-12	589.71	562.21	37.5	Groundwater Level (ft)	6.31	0.1
					Groundwater Elevation (Ft MSL)	583.40	
					Measured Well Depth (ft)	37.4	
					Submerged screen	Y	
	MW-15	586.43	557.93	38.5	Groundwater Level (ft)	4.41	-0.6
					Groundwater Elevation (Ft MSL)	582.02	
					Measured Well Depth (ft)	39.1	
					Submerged screen	Y	

Comments:

1) Measured well depths were less than 1.0 foot shallower than the installed depths where measured with the following exceptions:

MW-2, **MW-3**, **MW-4**, **MW-8**, and **MW-17:** These monitoring wells have consistenly measured shallower than the installed depth; however, since the monitoring wells produce sufficient groundwater for sampling it is likely that the wells are functioning properly.

Table 5
Background and GWPS Summary
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Interwell Background/GWPS (Unconsolidated Aquifer: MW-2, MW-18)

Constituent	Units	Samples	Detections	Background Level	Statistical Test	Action Level	Source
Arsenic	mg/L	36	19	0.03017	M+2SD	0.01 mg/L	MCL/SWS
Boron	mg/L	36	36	0.4426	M+2SD	6 mg/L	HAL
Chemical Oxygen Demand	mg/L	130	115	49.75	M+2SD		
Chloride	mg/L	130	130	73.28	M+2SD		
Cobalt	mg/L	36	32	0.00436	M+2SD	0.0021 mg/L	SWS
Iron	mg/L	12	8	1.964	M+2SD		
Magnesium	mg/L	36	36	38.09	M+2SD		
Manganese	mg/L	36	36	1.128	M+2SD	0.3 mg/L	MCL/SWS
Nitrogen, Ammonia	mg/L	130	108	5.367	M+2SD	30.0 mg/L	HAL
pH	S.U.	126	126	6.21 - 7.877	M+/-2SD		
Specific Conductance	µS/cm	130	130	1418	M+2SD		
Sulfate	mg/L	30	30	78.62	M+2SD		

Interwell Background/GWPS (Bedrock Aquifer: MW-1, MW-17)

Constituent	Units	Samples	Detections	Background Level	Statistical Test	Action Level	Source
Arsenic	mg/L	37	5	0.00117	M+2SD	0.01 mg/L	MCL/SWS
Boron	mg/L	37	35	1.1280	M+2SD	6 mg/L	HAL
Chemical Oxygen Demand	mg/L	101	46	19.18	M+2SD		
Chloride	mg/L	100	99	226.1	M+2SD		
Cobalt	mg/L	33	18	0.000560	M+2SD	0.0021 mg/L	SWS
Iron	mg/L	12	0	0.050	M+2SD		
Magnesium	mg/L	36	36	57.93	M+2SD		
Manganese	mg/L	36	18	1.134	M+2SD	0.3 mg/L	MCL/SWS
Nickel	mg/L	34	10	0.00499	M+2SD	0.1 mg/L	SWS
Nitrogen, Ammonia	mg/L	101	15	1.293	M+2SD	30.0 mg/L	HAL
pH	S.U.	101	101	6.23 - 7.77	M+/-2SD		
Specific Conductance	µS/cm	102	102	1597	M+2SD		
Sulfate	mg/L	29	28	70.10	M+2SD		

Notes:

1) Background levels based on calculated control limits or reporting limit, as applicable.

Acronyms/Abbreviations:

RL = Reporting Limit
GWPS = Groundwater Protection Standard
SSS = Site-Specific GWPS
SWS = Statewide Standard
SD = Standard Deviation
MCL = EPA Maximum Contaminant Level
PL = Prediction Limits
HAL = Health Advisory Level
DWA = Drinking Water Advisory

Comments:

1) **Water quality results and effectiveness of the statistical data evaluation criteria**: Statistical evaluations consist of control limits which consist of the standard deviation plus two standard deviations (plus and minus two standard deviations for pH).

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

Table 6

Summary of Well/Detected Constituent Pairs With No Immediately Preceding Control Limit Exceedances

2024 Annual Water Quality Report

ADM-Clinton Landfill

Permit No. 23-SDP-05-88C

Spring 2024 Sampling Event

Well	Constituent	Units	Result	Background Standard
Unconsolidated Aquifer				
MW-3	Cobalt	mg/L	0.00454	0.00439
MW-7	Cobalt	mg/L	0.00571	0.00439
MW-13	Chloride	mg/L	97.1	73.46
	Sulfate	mg/L	82.8	78.47
MW-14	Sulfate	mg/L	185	78.47
MW-16	Chloride	mg/L	360	73.46
	Sulfate	mg/L	436	78.47
Bedrock Aquifer				
MW-6	Chloride	mg/L	317	225.4
MW-15	Arsenic	mg/L	0.102	0.001172
	Boron	mg/L	7.68	0.9976
	COD	mg/L	102	19.30
	Cobalt	mg/L	0.00183	0.0005694
	Iron	mg/L	19.6	0.05
	Nitrogen-Ammonia	mg/L	68.5	1.306

Fall 2024 Sampling Event

Well	Constituent	Units	Result	Background Standard
Unconsolidated Aquifer				
MW-7	Iron	mg/L	11.1	1.964
MW-14	Nitrogen-Ammonia	mg/L	11.5	5.367
Bedrock Aquifer				
MW-10	Boron	mg/L	1.67	1.128
	Cobalt	mg/L	0.00104	0.0005597
	Magnesium	mg/L	67.6	57.93

Note: Tables include control limit exceedances identified during the 2024 sampling events that were not identified as control limit exceedances in the previous year.

Comments:

1) **Problems with the current HMSP network:** None.
2) **Schedule to implement remedies:** Not applicable.
3) **Alternative constituent or sample frequency changes:** None.
4) **Significant changes to prediction limits:** None.

Table 7
Summary Table of Ongoing and Newly Identified Control Limit Exceedances
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Key

	Denotes ongoing control limit exceedances that were identified as control limit exceedances during this reporting period and the previous reporting period at least once during each reporting period.
	Denotes newly identified control limit exceedances in the 2024 reporting period. Newly identified is defined as occuring at least once in the current reporting period but not in the immediately preceeding reporting period.

Unconsolidated Aquifer

Well	Constituent	Units	Most Recent Result	Fall 2024 Background Standard	Action Level/ Statewide Standard
MW-3	Boron	mg/L	4.03	0.4426	6
	Chloride	mg/L	298	73.28	-
	Cobalt	mg/L	0.000835	0.00436	0.0021
	Iron	mg/L	42.7	1.964	-
	Magnesium	mg/L	84.9	38.09	-
	Manganese	mg/L	5.69	1.128	0.3
	Specific Conductance	µS/cm	2,367	1,418	-
MW-5	Arsenic	mg/L	0.051	0.03017	0.01
	Boron	mg/L	22.4	0.4426	6
	COD	mg/L	217	49.75	-
	Chloride	mg/L	192	73.28	-
	Cobalt	mg/L	0.013	0.004364	0.0021
	Iron	mg/L	39.9	1.964	-
	Magnesium	mg/L	514	38.09	-
	Manganese	mg/L	2.2	1.128	0.3
	Nitrogen-Ammonia	mg/L	125	5.367	30
	Specific Conductance	µS/cm	6,040	1,418	-
	Sulfate	mg/L	840	78.62	-
MW-7	Arsenic	mg/L	0.0297	0.03017	0.01
	Boron	mg/L	31.6	0.4426	6
	COD	mg/L	305	49.75	-
	Chloride	mg/L	195	73.28	-
	Cobalt	mg/L	0.0042	0.00436	0.0021
	Iron	mg/L	11.1	1.964	-
	Magnesium	mg/L	240	38.09	-
	Nitrogen-Ammonia	mg/L	572	5.367	30
	Specific Conductance	µS/cm	7,002	1,418	-
MW-9	Arsenic	mg/L	0.0485	0.03017	0.01
	Boron	mg/L	12.9	0.4426	6
	COD	mg/L	280	49.75	-
	Magnesium	mg/L	251	38.09	-
	Manganese	mg/L	1.13	1.128	0.3
	Nitrogen-Ammonia	mg/L	389	5.367	30
	Specific Conductance	µS/cm	6,097	1,418	-
	Sulfate	mg/L	354	78.62	-

Table 7 - continued
Summary Table of Ongoing and Newly Identified Control Limit Exceedances
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Unconsolidated Aquifer - continued

Well	Constituent	Units	Most Recent Result	Fall 2024 Background Standard	Action Level/ Statewide Standard
MW-11	Arsenic	mg/L	0.0575	0.03017	0.01
	Boron	mg/L	1.74	0.4426	6
	COD	mg/L	122	49.75	-
	Chloride	mg/L	293	73.28	-
	Cobalt	mg/L	0.01	0.004364	0.0021
	Iron	mg/L	63.6	1.964	-
	Magnesium	mg/L	95.4	38.09	-
	Manganese	mg/L	1.3	1.128	0.3
	Nitrogen-Ammonia	mg/L	26.1	5.367	30
	Specific Conductance	µS/cm	2,446	1,418	-
MW-13	Arsenic	mg/L	0.0952	0.03017	0.01
	Boron	mg/L	9.79	0.4426	6
	COD	mg/L	114	49.75	-
	Chloride	mg/L	64.6	73.28	-
	Iron	mg/L	29.2	1.964	-
	Magnesium	mg/L	263	38.09	-
	Manganese	mg/L	1.71	1.128	0.3
	Nitrogen-Ammonia	mg/L	59.3	5.367	30
	Specific Conductance	µS/cm	3,480	1,418	-
	Sulfate	mg/L	<5	78.62	-
MW-14	Boron	mg/L	1.54	0.4426	6
	Chloride	mg/L	357	73.28	-
	Magnesium	mg/L	102	38.09	-
	Manganese	mg/L	1.14	1.128	0.3
	Nitrogen-Ammonia	mg/L	11.5	5.367	30
	Specific Conductance	µS/cm	2,324	1,418	-
	Sulfate	mg/L	206	78.62	-
MW-16	Chloride	mg/L	68.3	73.28	-
	Sulfate	mg/L	49.5	78.62	-

Table 7 - continued
Summary Table of Ongoing and Newly Identified Control Limit Exceedances
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Bedrock Aquifer

Well	Constituent	Units	Most Recent Result	Fall 2024 Background Standard	Action Level/ Statewide Standard
MW-6	Arsenic	mg/L	0.0238	0.001169	0.01
	Boron	mg/L	10	1.128	6
	COD	mg/L	46.9	19.18	-
	Chloride	mg/L	385	226.1	-
	Cobalt	mg/L	0.00143	0.0005597	0.0021
	Iron	mg/L	11.3	0.05	-
	Magnesium	mg/L	159	57.93	-
	Nickel	mg/L	0.018	0.004992	-
	Nitrogen-Ammonia	mg/L	167	1.293	30
	Specific Conductance	µS/cm	3,588	1,597	-
	Sulfate	mg/L	293	70.10	-
MW-10	Boron	mg/L	1.67	1.128	6
	Cobalt	mg/L	0.00104	0.0005597	0.0021
	Iron		1.4	0.05	-
	Magnesium	mg/L	67.6	57.93	-
	Nitrogen-Ammonia	mg/L	9.38	1.293	30
	Sulfate	mg/L	94	70.10	-
MW-12	Arsenic	mg/L	0.0704	0.001169	0.01
	Boron	mg/L	2.41	1.128	6
	COD	mg/L	28.7	19.18	-
	Chloride	mg/L	298	226.1	-
	Cobalt	mg/L	0.00175	0.0005597	0.0021
	Iron	mg/L	25	0.05	-
	Magnesium	mg/L	77.8	57.93	-
	Nitrogen-Ammonia	mg/L	17.7	1.293	30
	Specific Conductance	µS/cm	2,072	1,597	-
MW-15	Arsenic	mg/L	< 0.002	0.001169	0.01
	Boron	mg/L	0.215	1.128	6
	COD	mg/L	11.6	19.18	-
	Cobalt	mg/L	< 0.0005	0.0005597	0.0021
	Iron	mg/L	< 0.1	0.05	-
	Nitrogen-Ammonia	mg/L	< 0.2	1.293	30
	Sulfate	mg/L	86.1	70.10	-

Comments:

1) **Problems with the current HMSP network:** None.
2) **Proposed remedies:** None.
3) **Alternative constituent or sample frequency changes:** None.
4) **Plume delineation strategies:** Not Applicable.
5) **Property owner notifications:** Not applicable.

Table 8
Summary of Groundwater Chemistry
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

The Summary of Groundwater Chemistry is located in Appendix C.

Table 9
Historical Control Limit & Action Level Exceedances
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Key

	Control Limit Exceedance
X	Action Level Exceedance

Unconsolidated Aquifer

Well	Constituent	2021	2022	2023	2024
MW-3	Arsenic	X	X	X	X
	Boron				
	Chloride				
	Cobalt	X	X		X
	Iron				
	Magnesium				
	Manganese	X	X	X	X
	Specific Conductance				
MW-5	Arsenic		X	X	X
	Boron	X	X	X	X
	COD				
	Chloride				
	Cobalt	X	X	X	X
	Iron				
	Magnesium				
	Manganese	X	X	X	X
	Nitrogen-Ammonia	X	X	X	X
	Specific Conductance				
	Sulfate				
MW-7	Arsenic	X	X	X	X
	Boron	X	X	X	X
	COD				
	Chloride				
	Cobalt	X	X	X	X
	Iron				
	Magnesium				
	Manganese	X	X	X	X
	Nitrogen-Ammonia	X	X	X	X
	Specific Conductance				
MW-9	Arsenic	X	X	X	X
	Benzene	X	X	NS	X
	Boron	X	X	X	X
	COD				
	Cobalt	X	X	X	X
	Iron				
	Magnesium				
	Manganese	X	X	X	X
	Nitrogen-Ammonia	X	X		X
	Specific Conductance				
	Sulfate				
	Total Phenols			NS	

NS: Not Sampled

Table 9 - continued
Historical Control Limit & Action Level Exceedances
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No.23-SDP-05-88C

Unconsolidated Aquifer - continued

Well	Constituent	2021	2022	2023	2024
MW-11	Arsenic	X	X	X	X
	Boron				
	COD				
	Chloride				
	Cobalt	X	X		X
	Iron				
	Magnesium				
	Manganese	X	X	X	X
	Nitrogen-Ammonia	X	X	X	
	Specific Conductance				
MW-13	Arsenic	X	X	X	X
	Boron	X	X	X	X
	COD				
	Chloride				
	Cobalt	X	X	X	
	Iron				
	Magnesium				
	Manganese	X	X	X	X
	Nitrogen-Ammonia	X	X	X	X
	Specific Conductance				
	Sulfate				
MW-14	Boron				
	Chloride				
	Cobalt	X	X		
	Magnesium				
	Manganese	X	X	X	X
	Nitrogen-Ammonia				
	Specific Conductance				
	Sulfate				
MW-16	Boron				
	Chloride				
	Sulfate				

Table 9 - continued
Historical Control Limit & Action Level Exceedances
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No.23-SDP-05-88C

Bedrock Aquifer

Well	Constituent	2021	2022	2023	2024
MW-4	COD				
	Iron				
MW-6	Arsenic	X	X	X	X
	Boron	X	X	X	X
	COD				
	Chloride				
	Cobalt	X	X	X	
	Iron				
	Magnesium				
	Manganese				
	Nickel				
	Nitrogen-Ammonia	X	X	X	X
	Specific Conductance				
	Sulfate				
MW-8	COD				
	Iron				
	Nitrogen-Ammonia				
MW-10	Boron				
	Cobalt	X			
	Iron				
	Magnesium				
	Manganese	X	X		
	Nitrogen-Ammonia				
	Specific Conductance				
	Sulfate				
MW-12	Arsenic	X	X	X	X
	Boron				
	COD				
	Chloride				
	Cobalt	X	X		
	Iron				
	Magnesium				
	Manganese	X	X	X	
	Nickel				
	Nitrogen-Ammonia				
	Specific Conductance				
MW-15	Arsenic				X
	Boron				X
	COD				
	Cobalt				
	Iron				
	Magnesium				
	Nitrogen-Ammonia				X
	Sulfate				

Comments: None.

Table 10
Groundwater Quality Assessment Plan Trend Analysis
2024 Annual Water Quality Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

See Appendix E for Mann-Kendall Trend Analysis

Figures

Approved Monitoring Network

Legend

- HMSP Monitoring Well Location
- Approximate Monitoring Well Location
- Approximate Location of Extraction Well
- Approximate Location of Leachate Piezometer
- Approximate Waste Boundary
- Approximate Property Boundary

ADM Clinton Landfill
Clinton, Iowa
Project No:
27224044.00 Drawing
Date: November 2024

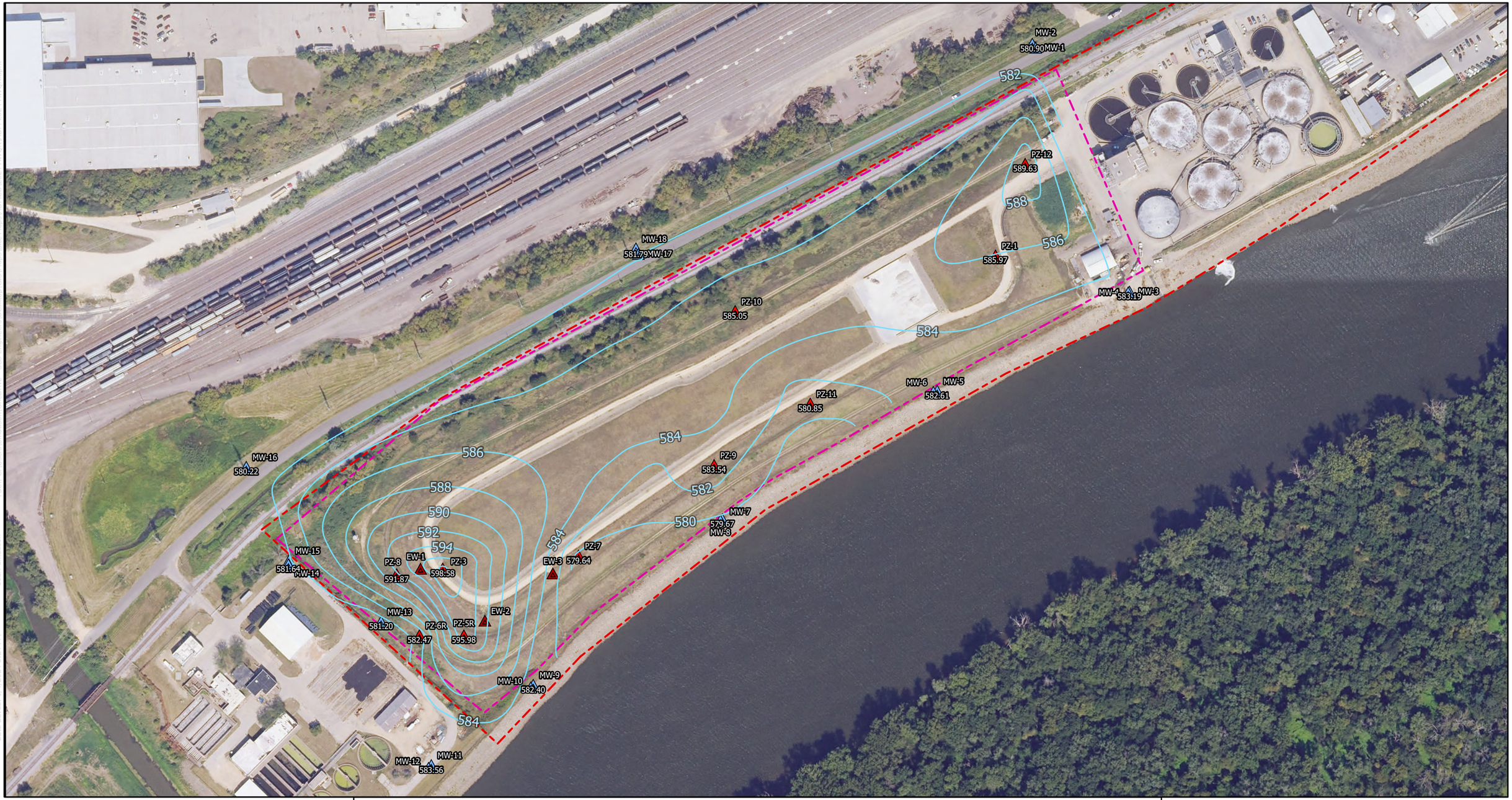
Figure 1

N W E S

0 120 240 480 720 Feet

SCS ENGINEERS
environmental consultants and contractors

Esri, CGIAR, USGS, Esri, TomTom, Garmin, Foursquare, FAO, METI/NASA, USGS, USDA/FSA, Iowa State University GIS Facility



Unconsolidated Aquifer Groundwater Contours

Figure 2

Legend

- Approximate Groundwater Contours Based on Field Measurements Taken on July 17, 2024
- Approximate Monitoring Well Location
- Approximate Location of Extraction Well
- Approximate Location of Leachate Piezometer
- Approximate Waste Boundary
- Approximate Property Boundary

ADM Clinton Landfill
Clinton, Iowa
Project No: 27224044.00
Drawing Date: November 2024

N
W
E
S

0 120 240 480 720
Feet

SCS ENGINEERS
environmental consultants and contractors

SCS ENGINEERS
environmental consultants and contractors

Bedrock Aquifer Groundwater Contours

Legend

- Approximate Bedrock Groundwater Contours Based on Field Measurments Taken on July 17, 2024
- Approximate Monitoring Well Location
- Approximate Location of Extraction Well
- Approximate Location of Leachate Piezometer
- Approximate Waste Boundary
- Approximate Property Boundary

ADM Clinton Landfill
Clinton, Iowa
Project No: 27224044.00
Drawing Date: November 2024

N
W
E
S

0 120 240 480 720
Feet

Figure 3

Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-1**	Date:	**4/10/2024**
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):	37.6
Initial Static Water Level (feet):	6.34
Initial Groundwater Elevation (ft-amsl):	579.15
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)	
2:48 PM	Purging start time.						
2:51 PM	14.8	4.73	1468.1	6.84	46.2	N/A	
2:54 PM	14.8	4.60	1478.6	6.86	54.1	N/A	
2:57 PM	14.8	4.53	1476.7	6.87	59.8	N/A	
3:00 PM	14.8	4.51	1478.0	6.87	63.7	N/A	
	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 Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-2**	Date:	**4/10/2024**
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):	13.5
Initial Static Water Level (feet):	5.20
Initial Groundwater Elevation (ft-amsl):	579.29
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)	
2:21 PM	Purging start time.						
2:24 PM	11.7	0.47	930.6	6.85	36.5	N/A	
2:27 PM	11.9	0.05	925.2	6.87	38.6	N/A	
2:30 PM	12.0	<0.01	929.1	6.87	40.9	N/A	
2:33 PM	12.2	<0.01	928.7	6.87	42.7	N/A	
	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 Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**				
Monitoring Well/Piezometer ID:	**MW-3**			Date:	**4/9/2024**
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):	26.2
Initial Static Water Level (feet):	21.27
Initial Groundwater Elevation (ft-amsl):	574.08
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)	
5:41 PM	Purging start time.						
5:44 PM	14.8	0.20	3475.0	6.77	-186.8	N/A	
5:47 PM	14.8	<0.01	3444.9	6.78	-192.2	N/A	
5:50 PM	14.8	<0.01	3414.8	6.78	-196.0	N/A	
5:53 PM	14.8	<0.01	3382.2	6.79	-198.6	N/A	
	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-Fishy smell Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**				
Monitoring Well/Piezometer ID:	**MW-4**			Date:	**4/9/2024**
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):	75.8
Initial Static Water Level (feet):	21.10
Initial Groundwater Elevation (ft-amsl):	574.20
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)	
6:08 PM	Purging start time.						
6:11 PM	14.7	2.37	1478.8	7.01	-42.0	N/A	
6:14 PM	14.7	1.69	1462.4	6.96	-25.6	N/A	
6:17 PM	14.7	1.43	1462.8	6.93	-17.8	N/A	
6:20 PM	14.6	1.35	1464.3	6.92	-13.3	N/A	
	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 Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-5**	Date:	**4/9/2024**
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):	27.9
Initial Static Water Level (feet):	21.93
Initial Groundwater Elevation (ft-amsl):	574.24
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)	
4:58 PM	Purging start time.						
5:01 PM	14.0	0.26	6294.9	6.57	-138.6	N/A	
5:04 PM	13.5	0.02	6342.6	6.58	-148.8	N/A	
5:07 PM	13.3	<0.01	6390.7	6.58	-155.9	N/A	
5:10 PM	13.3	<0.01	6432.2	6.58	-161.3	N/A	
	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- Yellow Tint Odor-Sulfur Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-6**	Date:	**4/9/2024**
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):	53.8
Initial Static Water Level (feet):	21.89
Initial Groundwater Elevation (ft-amsl):	574.33
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)	
4:24 PM	Purging start time.						
4:27 PM	14.9	0.45	4824.8	6.59	-146.1	179.3	
4:30 PM	14.9	<0.01	4882.1	6.61	-157.6	247.3	
4:33 PM	14.9	<0.01	4861.5	6.61	-162.4	167.5	
4:36 PM	14.5	<0.01	4851.5	6.62	-164.2	165.5	
	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- Gray Odor-Sulfur Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-7**	Date:	**4/9/2024**
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):	19.56
Initial Groundwater Elevation (ft-amsl):	575.59
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)	
3:42 PM	Purging start time.						
3:45 PM	15.4	0.28	11775.2	7.09	-217.2	N/A	
3:48 PM	15.2	<0.01	12081.7	7.09	-229.2	N/A	
3:51 PM	15.1	<0.01	12159.9	7.09	-234.0	N/A	
3:54 PM	15.6	<0.01	12080.8	7.09	-236.8	N/A	
	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-Dark Yellow Odor-Sulfur/urine Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-8**	Date:	**4/9/2024**
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):	71.6
Initial Static Water Level (feet):	20.59
Initial Groundwater Elevation (ft-amsl):	574.60
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)	
3:09 PM	Purging start time.						
3:12 PM	14.1	1.15	1423.4	6.92	-103.8	N/A	
3:15 PM	14.0	0.99	1454.0	6.95	-93.1	N/A	
3:18 PM	13.8	1.06	1468.1	6.97	-88.0	N/A	
3:21 PM	13.8	1.10	1466.8	6.98	-82.5	N/A	
	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-Sulfur Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-9**	Date:	**4/9/2024**
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):	19.15
Initial Groundwater Elevation (ft-amsl):	575.05
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)	
2:25 PM	Purging start time.						
2:28 PM	16.4	0.08	6777.6	6.69	-415.6	N/A	
2:31 PM	15.9	0.08	7156.5	6.71	-449.3	N/A	
2:34 PM	15.4	0.08	7374.3	6.72	-431.3	N/A	
2:37 PM	15.6	0.07	7381.1	6.72	-428.5	N/A	
	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- Yellow Tint Odor-Sulfur Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-10**	Date:	**4/9/2024**
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):	48.3
Initial Static Water Level (feet):	20.00
Initial Groundwater Elevation (ft-amsl):	574.01
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)	
1:54 PM	Purging start time.						
1:57 PM	13.4	0.82	1379.9	6.74	-128.5	167.6	
2:00 PM	13.7	0.09	1352.3	6.72	-91.4	31.7	
2:03 PM	13.6	<0.01	1347.8	6.72	-66.0	48.7	
2:06 PM	13.7	<0.01	1341.6	6.72	-48.7	33.9	
	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-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-11**	Date:	**4/10/2024**
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):	20.1
Initial Static Water Level (feet):	14.44
Initial Groundwater Elevation (ft-amsl):	575.38
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)	
10:44 AM	Purging start time.						
10:47 AM	13.5	0.79	2522.7	6.47	-176.8	N/A	
10:50 AM	12.9	<0.01	2544.4	6.48	-187.7	N/A	
10:53 AM	13.0	<0.01	2544.5	6.48	-192.0	N/A	
10:56 AM	13.0	<0.01	2540.9	6.48	-190.7	N/A	
	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-Green/Yellow Tint Odor-None Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-12**	Date:	**4/10/2024**
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):	37.3
Initial Static Water Level (feet):	14.47
Initial Groundwater Elevation (ft-amsl):	575.24
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)	
10:19 AM	Purging start time.						
10:22 AM	13.2	0.57	2439.2	6.65	-123.3	N/A	
10:25 AM	13.2	0.08	2364.8	6.62	-141.1	N/A	
10:28 AM	13.2	<0.01	2348.5	6.62	-148.3	N/A	
10:31 AM	13.3	<0.01	2337.1	6.62	-153.1	N/A	
	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 Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-13**	Date:	**4/10/2024**
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):	14.19
Initial Groundwater Elevation (ft-amsl):	575.74
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)	
9:42 AM	Purging start time.						
9:45 AM	12.7	0.60	4065.4	6.83	-186.2	N/A	
9:48 AM	12.8	0.16	4004.2	6.85	-191.8	N/A	
9:51 AM	12.9	<0.01	3873.6	6.86	-192.7	N/A	
9:54 AM	12.9	<0.01	3830.7	6.86	-193.4	N/A	
	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- Green Tint Odor- Oily Smell Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-14**	Date:	**4/10/2024**
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):	17.9
Initial Static Water Level (feet):	9.17
Initial Groundwater Elevation (ft-amsl):	577.89
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)	
11:17 AM	Purging start time.						
11:20 AM	11.0	1.16	1939.3	6.75	-61.7	N/A	
11:23 AM	11.1	0.19	1935.6	6.75	-39.4	N/A	
11:26 AM	11.0	<0.01	1937.3	6.76	-34.8	N/A	
11:29 AM	10.7	<0.01	1940.1	6.76	-26.9	N/A	
	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 Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-15**	Date:	**4/10/2024**
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):	39.3
Initial Static Water Level (feet):	9.97
Initial Groundwater Elevation (ft-amsl):	576.46
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)	
11:44 AM	Purging start time.						
11:47 AM	13.1	5.31	1319.1	6.88	-1.0	N/A	
11:50 AM	13.4	5.16	1315.4	6.88	16.5	N/A	
11:53 AM	13.6	5.10	1314.2	6.88	26.4	N/A	
11:56 AM	13.6	5.07	1316.2	6.88	32.7	N/A	
	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 Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-16**	Date:	**4/10/2024**
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):	16.9
Initial Static Water Level (feet):	9.16
Initial Groundwater Elevation (ft-amsl):	575.90
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)	
12:17 PM	Purging start time.						
12:20 PM	12.2	3.22	808.0	7.01	10.0	N/A	
12:23 PM	12.1	2.95	796.4	7.01	19.0	N/A	
12:26 PM	12.1	2.89	799.6	7.01	25.3	N/A	
12:29 PM	12.1	2.84	805.0	7.01	30.2	N/A	
	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 duplicate Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-17**	Date:	**4/10/2024**
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):	34.1
Initial Static Water Level (feet):	5.32
Initial Groundwater Elevation (ft-amsl):	577.42
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)	
1:04 PM	Purging start time.						
1:07 PM	13.5	0.59	866.2	7.05	18.1	N/A	
1:10 PM	13.4	0.07	863.1	7.06	18.7	N/A	
1:13 PM	13.2	<0.01	865.5	7.07	19.8	N/A	
1:16 PM	13.6	<0.01	861.7	7.07	20.7	N/A	
	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 but has a lot of black speckles Odor-None Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-18**	Date:	**4/10/2024**
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):	17.8
Initial Static Water Level (feet):	5.05
Initial Groundwater Elevation (ft-amsl):	579.39
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)	
1:28 PM	Purging start time.						
1:31 PM	11.9	0.36	967.0	7.05	35.0	N/A	
1:34 PM	11.4	<0.01	966.8	7.06	34.1	N/A	
1:37 PM	11.6	<0.01	964.9	7.07	31.9	N/A	
1:40 PM	11.5	<0.01	967.0	7.07	27.8	N/A	
	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 Turbidity data unavailable due to a malfunction with the meter.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-1**	Date:	**7/17/2024**
Gradient:	Up	Sampler:	Michael Morgan

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):	37.6
Initial Static Water Level (feet):	4.27
Initial Groundwater Elevation (ft-amsl):	581.22
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)	
2:30 PM	Purging start time.						
2:33 PM	18.4	4.58	1354.4	6.87	41.2	4.3	
2:36 PM	19.3	4.61	1362.2	6.89	56.0	4.7	
2:39 PM	20.1	4.53	1369.8	6.89	65.8	7.0	
2:42 PM	20.5	4.41	1375.1	6.89	73.4	9.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	116.67

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:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-2**	Date:	**7/17/2024**
Gradient:	Up	Sampler:	Michael Morgan

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):	13.2
Initial Static Water Level (feet):	3.59
Initial Groundwater Elevation (ft-amsl):	580.90
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)	
3:18 PM	Purging start time.						
3:21 PM	18.9	1.10	836.2	6.95	-10.6	5.4	
3:24 PM	18.6	0.42	813.8	6.95	-27.4	7.1	
3:27 PM	18.8	0.28	807.5	6.94	-33.6	14.0	
3:30 PM	19.1	0.20	806.8	6.92	-35.5	16.0	
	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 Well surrounded by vines, was cut back but will probably need cut back at next monitoring event.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-3**	Date:	**7/17/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	26.2
Initial Static Water Level (feet):	12.16
Initial Groundwater Elevation (ft-amsl):	583.19
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)	
1:59 PM	Purging start time.						
2:02 PM	18.2	0.74	2354.0	6.57	-133.7	3.6	
2:05 PM	18.3	0.20	2351.6	6.64	-153.5	2.8	
2:08 PM	18.7	0.11	2357.3	6.69	-162.4	3.1	
2:11 PM	18.2	0.05	2366.9	6.72	-167.3	3.4	
	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: Cloudy yellow tint, became clear while sampling. Odor: Oily corn smell

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-4**	Date:	**7/16/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	75.8
Initial Static Water Level (feet):	12.69
Initial Groundwater Elevation (ft-amsl):	582.61
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)	
2:36 PM	Purging start time.						
2:39 PM	19.4	3.85	1330.8	7.01	-72.5	4.0	
2:42 PM	19.8	2.24	1296.7	6.95	-42.6	3.6	
2:45 PM	19.6	2.00	1296.0	6.94	-22.0	5.3	
2:48 PM	19.8	1.78	1290.2	6.92	-7.5	5.5	
	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: slight oily smell Rock pile encroaching well, pic taken.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-5**	Date:	**7/16/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	27.9
Initial Static Water Level (feet):	13.56
Initial Groundwater Elevation (ft-amsl):	582.61
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)	
3:44 PM	Purging start time.						
3:47 PM	17.1	N/A	5949.9	6.63	-110.2	3.3	
3:50 PM	17.4	N/A	5994.8	6.70	-121.0	3.0	
3:53 PM	17.9	N/A	6015.8	6.71	-125.7	2.9	
3:56 PM	17.9	N/A	6040.0	6.72	-128.5	2.8	
	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: yellow tint Odor: slight oily smell Oily sheen on surface of water samples. Dissolved oxygen measurements not available due to malfunction.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-6**	Date:	**7/18/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	53.9
Initial Static Water Level (feet):	13.94
Initial Groundwater Elevation (ft-amsl):	582.28
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)	
8:42 AM	Purging start time.						
8:45 AM	16.6	0.97	3356.7	6.55	-131.0	280.1	
8:48 AM	16.4	0.24	3574.7	6.64	-141.5	174.8	
8:51 AM	16.2	0.10	3587.6	6.72	-149.3	148.0	
8:54 AM	16.5	0.06	3587.7	6.74	-153.2	160.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	133.33

D. WELL MAINTENANCE

Does the well require any future maintenance?	Yes	
If yes, explain:	Well casing lid requires attachment	

Additional Comments:	Color: cloudy grey with fine black particulate. Became clear for sampling Odor: slight oily smell

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-7**	Date:	**7/16/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	15.48
Initial Groundwater Elevation (ft-amsl):	579.67
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)	
4:33 PM	Purging start time.						
4:36 PM	18.1	0.56	8082.5	7.12	-146.1	11.8	
4:39 PM	18.3	0.20	7328.1	7.10	-155.0	22.6	
4:42 PM	19.7	0.73	7185.4	7.14	-159.9	9.3	
4:45 PM	17.8	0.47	7610.8	7.14	-157.5	18.9	
4:48 PM	17.7	0.14	7193.4	7.11	-160.8	37.3	
4:51 PM	17.6	<0.01	7001.5	7.10	-164.2	31.0	
	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):	18:00
Average Purge Rate (mL/min):	111.11

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

Additional Comments:	Color: orange then transitioned to brown tint during sampling Odor: oily smell

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-8**	Date:	**7/16/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	70.6
Initial Static Water Level (feet):	12.18
Initial Groundwater Elevation (ft-amsl):	583.01
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)	
5:53 PM	Purging start time.						
5:56 PM	18.0	4.01	1894.1	7.27	57.7	7.7	
5:59 PM	17.2	3.86	1412.7	7.18	57.2	6.4	
6:02 PM	17.3	3.77	1284.7	7.14	58.0	8.1	
6:05 PM	17.2	3.72	1235.3	7.11	60.5	10.5	
6:08 PM	17.1	3.70	1215.0	7.10	64.7	13.3	
	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):	15:00
Average Purge Rate (mL/min):	133.33

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:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-9**	Date:	**7/17/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	30.8
Initial Static Water Level (feet):	11.80
Initial Groundwater Elevation (ft-amsl):	582.40
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)	
6:15 PM	Purging start time.						
6:18 PM	16.2	0.14	6011.5	6.90	-336.5	4.5	
6:21 PM	16.1	<0.01	6062.6	6.90	-370.1	0.9	
6:24 PM	15.4	<0.01	6093.8	6.90	-387.7	-1.6	
6:27 PM	15.4	<0.01	6096.7	6.90	-391.2	-1.4	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	133.33

D. WELL MAINTENANCE

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

Additional Comments:	Color: grey-black initially, then became clear with yellow tint Odor: hard boiled eggs

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-10**	Date:	**7/17/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	48.3
Initial Static Water Level (feet):	11.47
Initial Groundwater Elevation (ft-amsl):	582.54
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)	
5:30 PM	Purging start time.						
5:33 PM	18.1	1.34	1579.9	7.09	-125.7	44.1	
5:36 PM	16.4	0.34	1348.2	6.98	-124.3	1024.6	
5:39 PM	16.4	0.09	1404.1	6.96	-108.1	484.4	
5:42 PM	16.4	0.05	1405.1	6.93	-90.0	233.6	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	133.33

D. WELL MAINTENANCE

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

Additional Comments:	Color: cloudy brown Odor: slightly earthy

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-11**	Date:	**7/17/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	20.0
Initial Static Water Level (feet):	6.26
Initial Groundwater Elevation (ft-amsl):	583.56
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)	
11:07 AM	Purging start time.						
11:10 AM	18.6	0.48	2326.2	6.43	-111.6	76.3	
11:13 AM	18.7	0.16	2383.4	6.50	-124.3	58.5	
11:16 AM	20.0	0.08	2417.6	6.51	-130.7	74.0	
11:19 AM	20.9	<0.01	2431.5	6.51	-135.1	45.0	
11:22 AM	21.2	<0.01	2445.6	6.51	-138.5	51.0	
	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):	15:00
Average Purge Rate (mL/min):	120.00

D. WELL MAINTENANCE

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

Additional Comments:	Color: orange brown tint Odor: very slight petroleum smell Oily sheen on water surface, with some bubbles/foam forming.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-12**	Date:	**7/17/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	37.4
Initial Static Water Level (feet):	6.31
Initial Groundwater Elevation (ft-amsl):	583.40
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)	
10:14 AM	Purging start time.						
10:17 AM	18.2	0.90	2079.6	6.66	-100.8	3.8	
10:20 AM	18.9	0.44	2068.7	6.66	-110.7	3.7	
10:23 AM	19.3	0.26	2072.0	6.66	-115.8	3.8	
10:26 AM	19.3	0.21	2072.2	6.65	-119.2	3.7	
	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: clear Odor: none

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-13**	Date:	**7/17/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	8.73
Initial Groundwater Elevation (ft-amsl):	581.20
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)	
4:24 PM	Purging start time.						
4:27 PM	18.1	0.97	3417.2	6.68	-123.4	5.8	
4:30 PM	17.7	0.42	3466.5	6.77	-134.8	5.0	
4:33 PM	16.8	0.23	3485.4	6.80	-139.5	4.7	
4:36 PM	16.2	0.13	3480.1	6.81	-142.2	4.6	
	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: yellow tint Odor: none Groundhog burrow entrances ~5m upslope from the well.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-14**	Date:	**7/17/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	17.3
Initial Static Water Level (feet):	5.42
Initial Groundwater Elevation (ft-amsl):	581.64
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)	
9:24 AM	Purging start time.						
9:27 AM	18.1	0.53	2279.3	6.68	132.2	3.7	
9:30 AM	18.8	<0.01	2308.1	6.70	127.8	4.1	
9:33 AM	18.8	0.22	2321.0	6.72	123.8	6.7	
9:36 AM	18.8	<0.01	2324.3	6.72	119.8	11.3	
	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:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-15**	Date:	**7/17/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	39.1
Initial Static Water Level (feet):	4.41
Initial Groundwater Elevation (ft-amsl):	582.02
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)	
8:45 AM	Purging start time.						
8:48 AM	16.7	5.10	1141.6	6.97	112.9	3.7	
8:51 AM	17.1	4.60	1132.1	6.92	122.0	4.2	
8:54 AM	16.8	4.35	1134.4	6.95	125.8	6.3	
8:57 AM	16.6	4.22	1128.6	6.96	129.2	4.4	
	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:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-16**	Date:	**7/17/2024**
Gradient:	Down	Sampler:	Michael Morgan

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):	16.9
Initial Static Water Level (feet):	4.84
Initial Groundwater Elevation (ft-amsl):	580.22
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)	
12:07 PM	Purging start time.						
12:10 PM	16.9	0.72	994.4	7.08	-100.9	14.0	
12:13 PM	17.1	0.31	950.8	7.10	-81.9	8.6	
12:16 PM	17.1	0.20	942.9	7.09	-67.7	7.9	
12:19 PM	17.2	0.11	938.5	7.07	-57.0	7.8	
	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 Odor: none

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-17**	Date:	**7/17/2024**
Gradient:	Up	Sampler:	Michael Morgan

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):	34.1
Initial Static Water Level (feet):	1.99
Initial Groundwater Elevation (ft-amsl):	580.75
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)	
12:48 PM	Purging start time.						
12:51 PM	20.0	1.70	839.6	7.16	23.7	5.8	
12:54 PM	20.2	<0.01	852.6	7.13	21.6	5.0	
12:57 PM	20.9	<0.01	855.9	7.12	23.4	6.0	
1:00 PM	21.7	N/A	859.7	7.11	26.1	7.8	
	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: clear with some black particulate Odor: none Well casing lid difficult to open, very rusty. Couldn't fully close after sampling. Final dissolved oxygen reading not available due to malfunction.

FORM FOR GROUNDWATER SAMPLING

Project:	**ADM-CLINTON LANDFILL**		
Monitoring Well/Piezometer ID:	**MW-18**	Date:	**7/17/2024**
Gradient:	Up	Sampler:	Michael Morgan

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):	17.7
Initial Static Water Level (feet):	2.65
Initial Groundwater Elevation (ft-amsl):	581.79
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)	
1:33 PM	Purging start time.						
1:36 PM	20.0	0.79	921.5	7.06	-69.1	9.7	
1:39 PM	20.6	0.44	921.4	7.06	-77.7	18.4	
1:42 PM	20.7	0.26	923.4	7.06	-82.2	34.9	
1:45 PM	20.8	0.18	921.0	7.07	-85.2	32.6	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	133.33

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

Additional Comments:	Color: yellow tint Odor: none

Appendix B-1

Laboratory Analytical Data Sheets

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/17/2024 12:49:05 PM Revision 1

JOB DESCRIPTION

ADM Landfill Sampling Spring 2024

JOB NUMBER

310-278908-1

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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Revision 1

Authorized for release by
Mary Yang, Project Management Assistant I
Mary.Yang@ET.EurofinsUS.com
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Table of Contents

Job Narrative
310-278908-1

REVISION

The report being provided is a revision of the original report sent on 4/26/2024. The report (revision 1) is being revised due to adding Manganese and removing Nickel from some samples per client request.

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 4/12/2024 4:00 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 0.3°C, 0.4°C and 0.8°C.

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

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) associated with batch 310-419071 recovered above the upper control limit for Pentachlorophenol (39.7%D).The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The method blank for preparation batch 310-419017 and analytical batch 310-419071 contained Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC
Method 300_ORGFMS: The following sample was analyzed outside of analytical holding time due to QC failure: Wet Well Leachate (310-278908-20).

Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW-7 (310-278908-7) and MW-11 (310-278908-11). Elevated reporting limits (RLs) are provided.

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

Metals
Method 200.8_CWA: The following sample was received with insufficient preservation: Wet Well Leachate (310-278908-20). The maximum amount of preservative was added by the laboratory, but the sample remained strongly basic. No further attempt was made to acidify the sample, as it would have diluted the sample. This does not meet regulatory requirements.

Method 6020B: The reference method requires samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of >2: MW-5 (310-278908-5), MW-6 (310-278908-6), MW-9 (310-278908-9), MW-11 (310-278908-11) and MW-15 (310-278908-15). The sample(s) was preserved to the appropriate pH in the laboratory.

Method 6020B: The following sample was received with insufficient preservation: MW-7 (310-278908-7). The maximum amount of preservative was added by the laboratory, but the sample remained strongly basic. No further attempt was made to acidify the sample, as it would have diluted the sample. This does not meet regulatory requirements.

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

General Chemistry
Method 350.1: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: MW-7 (310-278908-7). The sample(s) was preserved to the appropriate pH in the laboratory.

Method SM5210B_Calc: The following sample was received outside of holding time: Wet Well Leachate (310-278908-20).

Method SM5210B_Calc: The USB dilution water D.O. depletion was greater than 0.2 mg/L. The associated sample results in batch 310-418663 are qualified and reported. The USB depletion was 0.815 mg/L.

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

Job ID: 310-278908-2 — Eurofins Cedar Falls

Job Narrative
310-278908-2

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 4/12/2024 4:00 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 0.3°C, 0.4°C and 0.8°C.

Metals
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: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-278908-1	MW-1	Water	04/10/24 15:12	04/12/24 16:00
310-278908-2	MW-2	Water	04/10/24 14:44	04/12/24 16:00
310-278908-3	MW-3	Water	04/09/24 18:05	04/12/24 16:00
310-278908-4	MW-4	Water	04/09/24 18:33	04/12/24 16:00
310-278908-5	MW-5	Water	04/09/24 17:30	04/12/24 16:00
310-278908-6	MW-6	Water	04/09/24 16:50	04/12/24 16:00
310-278908-7	MW-7	Water	04/09/24 16:11	04/12/24 16:00
310-278908-8	MW-8	Water	04/09/24 15:34	04/12/24 16:00
310-278908-9	MW-9	Water	04/09/24 15:01	04/12/24 16:00
310-278908-10	MW-10	Water	04/09/24 14:17	04/12/24 16:00
310-278908-11	MW-11	Water	04/10/24 11:07	04/12/24 16:00
310-278908-12	MW-12	Water	04/10/24 10:41	04/12/24 16:00
310-278908-13	MW-13	Water	04/10/24 10:04	04/12/24 16:00
310-278908-14	MW-14	Water	04/10/24 11:41	04/12/24 16:00
310-278908-15	MW-15	Water	04/10/24 12:08	04/12/24 16:00
310-278908-16	MW-16	Water	04/10/24 12:55	04/12/24 16:00
310-278908-17	MW-17	Water	04/10/24 13:26	04/12/24 16:00
310-278908-18	MW-18	Water	04/10/24 13:43	04/12/24 16:00
310-278908-19	MW-D	Water	04/10/24 12:55	04/12/24 16:00
310-278908-20	Wet Well Leachate	Water	04/10/24 16:00	04/12/24 16:00
310-278908-21	Trip Blank	Water	04/10/24 00:00	04/12/24 16:00

Detection Summary

Client: SCS Engineers
Project/Site: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

Client Sample ID: MW-1 — Lab Sample ID: 310-278908-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	179		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	35.8		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000786	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	0.112		0.100	0.0760	mg/L	1		6020B	Total/NA
Magnesium	47.2		0.500	0.150	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.50	J	1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 310-278908-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	31.8		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	28.9		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000605	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	0.224		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.000264	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	28.2		0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	0.0823		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	2.05		0.200	0.100	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	8.72		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	5.37		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 310-278908-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	420		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	2.88	J	5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.0164		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	4.03		0.400	0.304	mg/L	4		6020B	Total/NA
Cobalt	0.00454		0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	96.3		2.00	0.600	mg/L	4		6020B	Total/NA
Manganese	5.68		0.0100	0.00360	mg/L	1		6020B	Total/NA
Iron	31.2		0.100	0.0360	mg/L	1		6020B	Total/NA
Ammonia	2.22		0.200	0.100	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	40.4		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	122		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 310-278908-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	186		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	50.6		5.00	2.10	mg/L	5		9056A	Total/NA
Boron	0.332		0.100	0.0760	mg/L	1		6020B	Total/NA
Iron	0.0535	J	0.100	0.0360	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.75	J	1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 310-278908-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	166		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	965		50.0	21.0	mg/L	50		9056A	Total/NA
Arsenic	0.0509		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	20.1		2.00	1.52	mg/L	20		6020B	Total/NA
Cobalt	0.00805		0.000500	0.000170	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-5 (Continued) — Lab Sample ID: 310-278908-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	463		10.0	3.00	mg/L	20		6020B	Total/NA
Manganese	2.43		0.0100	0.00360	mg/L	1		6020B	Total/NA
Iron	38.9		0.100	0.0360	mg/L	1		6020B	Total/NA
Ammonia	71.4		7.50	3.75	mg/L	37.5		350.1	Total/NA
Chemical Oxygen Demand	141		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	108		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 310-278908-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	317		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	412		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.0295		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	14.1		1.00	0.760	mg/L	10		6020B	Total/NA
Cobalt	0.00386		0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	324		5.00	1.50	mg/L	10		6020B	Total/NA
Manganese	0.319		0.0100	0.00360	mg/L	1		6020B	Total/NA
Nickel	0.0458		0.00500	0.00210	mg/L	1		6020B	Total/NA
Iron	14.3		0.100	0.0360	mg/L	1		6020B	Total/NA
Ammonia	128		7.50	3.75	mg/L	37.5		350.1	Total/NA
Chemical Oxygen Demand	85.8		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	1850		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 310-278908-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	168		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.0446		0.0140	0.00371	mg/L	7		6020B	Total/NA
Boron	34.6		1.00	0.760	mg/L	10		6020B	Total/NA
Cobalt	0.00571		0.00350	0.00119	mg/L	7		6020B	Total/NA
Magnesium	321		3.50	1.05	mg/L	7		6020B	Total/NA
Manganese	0.463		0.100	0.0360	mg/L	10		6020B	Total/NA
Iron	0.583	J	1.00	0.360	mg/L	10		6020B	Total/NA
Ammonia	104		20.0	10.0	mg/L	100		350.1	Total/NA
Chemical Oxygen Demand	429		25.0	24.0	mg/L	5		5220D LL	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 310-278908-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	176		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	50.2		5.00	2.10	mg/L	5		9056A	Total/NA
Boron	0.772		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.000382	J	0.000500	0.000170	mg/L	1		6020B	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 310-278908-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	27.3		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	717		50.0	21.0	mg/L	50		9056A	Total/NA
Arsenic	0.0907		0.00800	0.00212	mg/L	4		6020B	Total/NA
Boron	11.4		0.400	0.304	mg/L	4		6020B	Total/NA
Cobalt	0.00286		0.00200	0.000680	mg/L	4		6020B	Total/NA
Magnesium	265		2.00	0.600	mg/L	4		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-9 (Continued) — Lab Sample ID: 310-278908-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.48		0.0400	0.0144	mg/L	4		6020B	Total/NA
Ammonia	326		18.8	9.38	mg/L	93.8		350.1	Total/NA
Chemical Oxygen Demand	511		25.0	24.0	mg/L	5		5220D LL	Total/NA
Total Suspended Solids	4.33	J	5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 310-278908-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	49.3		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	121		5.00	2.10	mg/L	5		9056A	Total/NA
Boron	0.519		0.100	0.0760	mg/L	1		6020B	Total/NA
Magnesium	51.4		0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	0.209		0.0100	0.00360	mg/L	1		6020B	Total/NA
Iron	0.206		0.100	0.0360	mg/L	1		6020B	Total/NA
Ammonia	0.195	J	0.200	0.100	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	5.36		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	31.0		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 310-278908-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	129		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.0762		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	1.12		0.400	0.304	mg/L	4		6020B	Total/NA
Cobalt	0.0194		0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	97.8		2.00	0.600	mg/L	4		6020B	Total/NA
Manganese	1.04		0.0100	0.00360	mg/L	1		6020B	Total/NA
Iron	69.4		0.100	0.0360	mg/L	1		6020B	Total/NA
Ammonia	32.1		1.88	0.938	mg/L	9.38		350.1	Total/NA
Chemical Oxygen Demand	156		25.0	24.0	mg/L	5		5220D LL	Total/NA
Total Suspended Solids	138		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 310-278908-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	302		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	6.43		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.0895		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	1.87		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.00158		0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	69.9		0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	0.942		0.0100	0.00360	mg/L	1		6020B	Total/NA
Iron	26.8		0.100	0.0360	mg/L	1		6020B	Total/NA
Ammonia	16.1		1.88	0.938	mg/L	9.38		350.1	Total/NA
Chemical Oxygen Demand	25.2		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	67.3		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 310-278908-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	97.1		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	82.8		5.00	2.10	mg/L	5		9056A	Total/NA
Boron	0.288		0.100	0.0760	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-13 (Continued) — Lab Sample ID: 310-278908-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	53.1		0.500	0.150	mg/L	1		6020B	Total/NA
Iron	0.0563	J	0.100	0.0360	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.9		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 310-278908-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	195		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	185		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000738	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	0.774		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.000196	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	84.0		0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	0.0805		0.0100	0.00360	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	12.4		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	5.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 310-278908-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	78.7		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	17.2		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.102		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	7.68		0.400	0.304	mg/L	4		6020B	Total/NA
Cobalt	0.00183		0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	278		2.00	0.600	mg/L	4		6020B	Total/NA
Manganese	1.39		0.0100	0.00360	mg/L	1		6020B	Total/NA
Iron	19.6		0.100	0.0360	mg/L	1		6020B	Total/NA
Ammonia	68.5		1.88	0.938	mg/L	9.38		350.1	Total/NA
Chemical Oxygen Demand	102		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	73.3		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 310-278908-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	360		55.0	24.8	mg/L	55		9056A	Total/NA
Sulfate	436		55.0	23.1	mg/L	55		9056A	Total/NA
Arsenic	0.000982	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	0.338		0.100	0.0760	mg/L	1		6020B	Total/NA
Iron	0.0582	J	0.100	0.0360	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	5.36		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	24.8		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 310-278908-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	36.4		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	43.7		5.00	2.10	mg/L	5		9056A	Total/NA
Boron	0.586		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.000478	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	29.1		0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	1.23		0.0100	0.00360	mg/L	1		6020B	Total/NA
Nickel	0.00600		0.00500	0.00210	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-17 (Continued) — Lab Sample ID: 310-278908-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	32.5		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 310-278908-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	41.3		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	82.6		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.00232		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	0.306		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.000587		0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	32.2		0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	0.146		0.0100	0.00360	mg/L	1		6020B	Total/NA
Iron	0.313		0.100	0.0360	mg/L	1		6020B	Total/NA
Ammonia	0.244		0.200	0.100	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	17.1		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	21.1		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D — Lab Sample ID: 310-278908-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28.2		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	39.5		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000893	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	0.349		0.100	0.0760	mg/L	1		6020B	Total/NA
Iron	0.0667	J	0.100	0.0360	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	5.02		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	21.1		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Wet Well Leachate — Lab Sample ID: 310-278908-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.10	J	10.0	3.10	ug/L	1		8260D	Total/NA
Carbon disulfide	0.560	J	1.00	0.450	ug/L	1		8260D	Total/NA
Bis(2-ethylhexyl) phthalate	17.8	B	9.26	5.09	ug/L	1		8270E	Total/NA
3,3'-Dichlorobenzidine	1.84	J	9.26	1.30	ug/L	1		8270E	Total/NA
Di-n-octyl phthalate	10.3	J	18.5	6.48	ug/L	1		8270E	Total/NA
Chloride	239		5.00	2.25	mg/L	5		300.0	Total/NA
Nitrate as N	0.380	H	0.200	0.0780	mg/L	1		300.0	Total/NA
Sulfate	655		50.0	21.0	mg/L	50		300.0	Total/NA
Aluminum	0.274	J	0.350	0.147	mg/L	7		200.8	Total/NA
Arsenic	0.0927		0.0140	0.00371	mg/L	7		200.8	Total/NA
Boron	20.6		0.700	0.532	mg/L	7		200.8	Total/NA
Cadmium	0.000884		0.000200	0.000100	mg/L	1		200.8	Total/NA
Cobalt	0.00771		0.00350	0.00119	mg/L	7		200.8	Total/NA
Copper	0.139		0.0350	0.0126	mg/L	7		200.8	Total/NA
Iron	4.38		0.100	0.0360	mg/L	1		200.8	Total/NA
Lead	0.00200	J	0.00350	0.00182	mg/L	7		200.8	Total/NA
Magnesium	448		3.50	1.05	mg/L	7		200.8	Total/NA
Manganese	0.0959		0.0100	0.00360	mg/L	1		200.8	Total/NA
Nickel	0.0559		0.00500	0.00210	mg/L	1		200.8	Total/NA
Potassium	263		3.50	1.05	mg/L	7		200.8	Total/NA
Zinc	0.0706		0.0200	0.00970	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Wet Well Leachate (Continued)
Lab Sample ID: 310-278908-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0330		0.0100	0.00350	mg/L	1		335.4	Total/NA
Ammonia	776		46.9	19.7	mg/L	9.38		350.1	Total/NA
Total Kjeldahl Nitrogen	754		50.0	28.5	mg/L	10		351.2	Total/NA
Phenols, Total	0.0391		0.0200	0.0100	mg/L	1		420.4	Total/NA
Total Suspended Solids	574		30.0	22.2	mg/L	1		I-3765-85	Total/NA
Total Solids	5900		1250	1130	mg/L	1		SM 2540B	Total/NA
Carbonaceous Biochemical Oxygen Demand	42.3	H b	3.00	3.00	mg/L	1		SM 5210B	Total/NA

Client Sample ID: Trip Blank
Lab Sample ID: 310-278908-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.457	J	1.00	0.450	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-1
Lab Sample ID: 310-278908-1
Date Collected: 04/10/24 15:12
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		5.00	2.25	mg/L			04/15/24 18:54	5
Sulfate	**35.8**		5.00	2.10	mg/L			04/15/24 18:54	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000786**	**J**	0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 00:21	1
Boron	**0.112**		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 16:32	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 00:21	1
Magnesium	**47.2**		0.500	0.150	mg/L		04/16/24 09:00	04/23/24 00:21	1
Manganese	<0.0100		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 00:21	1
Nickel	<0.00500		0.00500	0.00210	mg/L		04/16/24 09:00	04/23/24 00:21	1
Iron	<0.100		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 00:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			04/16/24 17:45	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	**1.50**	**J**	1.88	1.39	mg/L			04/16/24 15:47	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-2
Lab Sample ID: 310-278908-2
Date Collected: 04/10/24 14:44
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		5.00	2.25	mg/L			04/15/24 19:31	5
Sulfate	28.9		5.00	2.10	mg/L			04/15/24 19:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000605	J	0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 00:52	1
Boron	0.224		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 16:43	1
Cobalt	0.000264	J	0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 00:52	1
Magnesium	28.2		0.500	0.150	mg/L		04/16/24 09:00	04/23/24 00:52	1
Manganese	0.0823		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 00:52	1
Iron	<0.100		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 00:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	2.05		0.200	0.100	mg/L			04/16/24 17:48	1
Chemical Oxygen Demand (SM 5220D LL)	8.72		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	5.37		1.88	1.39	mg/L			04/16/24 15:47	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-3
Lab Sample ID: 310-278908-3
Date Collected: 04/09/24 18:05
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		5.00	2.25	mg/L			04/15/24 20:07	5
Sulfate	2.88	J	5.00	2.10	mg/L			04/15/24 20:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0164		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 00:55	1
Boron	4.03		0.400	0.304	mg/L		04/16/24 09:00	04/23/24 16:45	4
Cobalt	0.00454		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 00:55	1
Magnesium	96.3		2.00	0.600	mg/L		04/16/24 09:00	04/24/24 15:30	4
Manganese	5.68		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 00:55	1
Iron	31.2		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 00:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	2.22		0.200	0.100	mg/L			04/16/24 17:48	1
Chemical Oxygen Demand (SM 5220D LL)	40.4		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	122		15.0	11.1	mg/L			04/15/24 13:50	1

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-4
Lab Sample ID: 310-278908-4
Date Collected: 04/09/24 18:33
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		5.00	2.25	mg/L			04/15/24 20:19	5
Sulfate	**50.6**		5.00	2.10	mg/L			04/15/24 20:19	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 00:59	1
Boron	**0.332**		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 16:47	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 00:59	1
Iron	**0.0535**	**J**	0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 00:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			04/16/24 17:50	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	**1.75**	**J**	1.88	1.39	mg/L			04/15/24 13:50	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-5
Lab Sample ID: 310-278908-5
Date Collected: 04/09/24 17:30
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		5.00	2.25	mg/L			04/15/24 20:31	5
Sulfate	965		50.0	21.0	mg/L			04/16/24 09:48	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0509		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:02	1
Boron	20.1		2.00	1.52	mg/L		04/16/24 09:00	04/23/24 16:49	20
Cobalt	0.00805		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:02	1
Magnesium	463		10.0	3.00	mg/L		04/16/24 09:00	04/24/24 15:34	20
Manganese	2.43		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 01:02	1
Iron	38.9		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	71.4		7.50	3.75	mg/L			04/16/24 18:49	37.5
Chemical Oxygen Demand (SM 5220D LL)	141		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	108		7.50	5.55	mg/L			04/15/24 13:50	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-6
Lab Sample ID: 310-278908-6
Date Collected: 04/09/24 16:50
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		5.00	2.25	mg/L			04/15/24 20:43	5
Sulfate	412		5.00	2.10	mg/L			04/15/24 20:43	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0295		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:05	1
Boron	14.1		1.00	0.760	mg/L		04/16/24 09:00	04/23/24 16:51	10
Cobalt	0.00386		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:05	1
Magnesium	324		5.00	1.50	mg/L		04/16/24 09:00	04/24/24 15:37	10
Manganese	0.319		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 01:05	1
Nickel	0.0458		0.00500	0.00210	mg/L		04/16/24 09:00	04/23/24 01:05	1
Iron	14.3		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	128		7.50	3.75	mg/L			04/16/24 18:49	37.5
Chemical Oxygen Demand (SM 5220D LL)	85.8		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	1850		15.0	11.1	mg/L			04/15/24 13:50	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-7
Lab Sample ID: 310-278908-7
Date Collected: 04/09/24 16:11
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**168**		5.00	2.25	mg/L			04/15/24 20:55	5
Sulfate	<5.00		5.00	2.10	mg/L			04/15/24 20:55	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0446**		0.0140	0.00371	mg/L		04/16/24 09:00	04/24/24 15:41	7
Boron	**34.6**		1.00	0.760	mg/L		04/16/24 09:00	04/25/24 12:34	10
Cobalt	**0.00571**		0.00350	0.00119	mg/L		04/16/24 09:00	04/24/24 15:41	7
Magnesium	**321**		3.50	1.05	mg/L		04/16/24 09:00	04/24/24 15:41	7
Manganese	**0.463**		0.100	0.0360	mg/L		04/16/24 09:00	04/25/24 12:34	10
Iron	**0.583**	**J**	1.00	0.360	mg/L		04/16/24 09:00	04/25/24 12:34	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**104**		20.0	10.0	mg/L			04/16/24 20:44	100
Chemical Oxygen Demand (SM 5220D LL)	**429**		25.0	24.0	mg/L			04/19/24 12:00	5
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			04/15/24 13:50	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-8
Lab Sample ID: 310-278908-8
Date Collected: 04/09/24 15:34
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**176**		5.00	2.25	mg/L			04/15/24 21:07	5
Sulfate	**50.2**		5.00	2.10	mg/L			04/15/24 21:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:12	1
Boron	**0.772**		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 17:05	1
Cobalt	**0.000382**	**J**	0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:12	1
Iron	<0.100		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			04/16/24 17:52	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			04/15/24 13:50	1

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-9
Lab Sample ID: 310-278908-9
Date Collected: 04/09/24 15:01
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.3		5.00	2.25	mg/L			04/15/24 21:19	5
Sulfate	717		50.0	21.0	mg/L			04/16/24 10:00	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0907		0.00800	0.00212	mg/L		04/16/24 09:00	04/24/24 15:44	4
Boron	11.4		0.400	0.304	mg/L		04/16/24 09:00	04/24/24 15:44	4
Cobalt	0.00286		0.00200	0.000680	mg/L		04/16/24 09:00	04/24/24 15:44	4
Magnesium	265		2.00	0.600	mg/L		04/16/24 09:00	04/24/24 15:44	4
Manganese	1.48		0.0400	0.0144	mg/L		04/16/24 09:00	04/25/24 12:36	4
Iron	<0.400		0.400	0.144	mg/L		04/16/24 09:00	04/25/24 12:36	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	326		18.8	9.38	mg/L			04/16/24 18:28	93.8
Chemical Oxygen Demand (SM 5220D LL)	511		25.0	24.0	mg/L			04/19/24 12:00	5
Total Suspended Solids (USGS I-3765-85)	4.33	J	5.00	3.70	mg/L			04/15/24 13:50	1

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-10
Lab Sample ID: 310-278908-10
Date Collected: 04/09/24 14:17
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.3**		5.00	2.25	mg/L			04/15/24 21:31	5
Sulfate	**121**		5.00	2.10	mg/L			04/15/24 21:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:33	1
Boron	**0.519**		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 17:09	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:33	1
Magnesium	**51.4**		0.500	0.150	mg/L		04/16/24 09:00	04/23/24 01:33	1
Manganese	**0.209**		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 01:33	1
Iron	**0.206**		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.195**	**J**	0.200	0.100	mg/L			04/16/24 17:54	1
Chemical Oxygen Demand (SM 5220D LL)	**5.36**		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	**31.0**		1.88	1.39	mg/L			04/15/24 13:50	1

Client Sample ID: MW-11
Lab Sample ID: 310-278908-11

Date Collected: 04/10/24 11:07
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		5.00	2.25	mg/L			04/15/24 21:43	5
Sulfate	<5.00		5.00	2.10	mg/L			04/15/24 21:43	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0762		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:36	1
Boron	1.12		0.400	0.304	mg/L		04/16/24 09:00	04/23/24 17:11	4
Cobalt	0.0194		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:36	1
Magnesium	97.8		2.00	0.600	mg/L		04/16/24 09:00	04/24/24 15:48	4
Manganese	1.04		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 01:36	1
Iron	69.4		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	32.1		1.88	0.938	mg/L			04/16/24 18:28	9.38
Chemical Oxygen Demand (SM 5220D LL)	156		25.0	24.0	mg/L			04/19/24 12:00	5
Total Suspended Solids (USGS I-3765-85)	138		15.0	11.1	mg/L			04/16/24 15:47	1

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-12
Lab Sample ID: 310-278908-12
Date Collected: 04/10/24 10:41
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		5.00	2.25	mg/L			04/15/24 21:56	5
Sulfate	6.43		5.00	2.10	mg/L			04/15/24 21:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0895		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:43	1
Boron	1.87		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 17:15	1
Cobalt	0.00158		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:43	1
Magnesium	69.9		0.500	0.150	mg/L		04/16/24 09:00	04/23/24 01:43	1
Manganese	0.942		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 01:43	1
Iron	26.8		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	16.1		1.88	0.938	mg/L			04/16/24 18:30	9.38
Chemical Oxygen Demand (SM 5220D LL)	25.2		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	67.3		5.00	3.70	mg/L			04/16/24 15:47	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-13
Date Collected: 04/10/24 10:04
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-13
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.1**		5.00	2.25	mg/L			04/15/24 22:32	5
Sulfate	**82.8**		5.00	2.10	mg/L			04/15/24 22:32	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:46	1
Boron	**0.288**		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 17:18	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:46	1
Magnesium	**53.1**		0.500	0.150	mg/L		04/16/24 09:00	04/23/24 01:46	1
Manganese	<0.0100		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 01:46	1
Iron	**0.0563**	**J**	0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			04/16/24 17:58	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	**10.9**		1.88	1.39	mg/L			04/16/24 15:47	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-14
Date Collected: 04/10/24 11:41
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-14
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**195**		5.00	2.25	mg/L			04/15/24 22:44	5
Sulfate	**185**		5.00	2.10	mg/L			04/15/24 22:44	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000738**	**J**	0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:50	1
Boron	**0.774**		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 17:20	1
Cobalt	**0.000196**	**J**	0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:50	1
Magnesium	**84.0**		0.500	0.150	mg/L		04/16/24 09:00	04/23/24 01:50	1
Manganese	**0.0805**		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 01:50	1
Iron	<0.100		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			04/16/24 17:59	1
Chemical Oxygen Demand (SM 5220D LL)	**12.4**		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	**5.50**		1.88	1.39	mg/L			04/16/24 15:47	1

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-15
Date Collected: 04/10/24 12:08
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-15
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.7		5.00	2.25	mg/L			04/15/24 22:56	5
Sulfate	17.2		5.00	2.10	mg/L			04/15/24 22:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.102		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:53	1
Boron	7.68		0.400	0.304	mg/L		04/16/24 09:00	04/23/24 17:22	4
Cobalt	0.00183		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:53	1
Magnesium	278		2.00	0.600	mg/L		04/16/24 09:00	04/24/24 15:55	4
Manganese	1.39		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 01:53	1
Iron	19.6		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	68.5		1.88	0.938	mg/L			04/16/24 18:30	9.38
Chemical Oxygen Demand (SM 5220D LL)	102		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	73.3		5.00	3.70	mg/L			04/16/24 15:47	1

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-16
Date Collected: 04/10/24 12:55
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-16
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**360**		55.0	24.8	mg/L			04/15/24 23:08	55
Sulfate	**436**		55.0	23.1	mg/L			04/15/24 23:08	55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000982**	**J**	0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 01:57	1
Boron	**0.338**		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 17:33	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 01:57	1
Iron	**0.0582**	**J**	0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 01:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200	F1	0.200	0.100	mg/L			04/16/24 18:02	1
Chemical Oxygen Demand (SM 5220D LL)	**5.36**		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	**24.8**		1.88	1.39	mg/L			04/16/24 15:47	1

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-17
Lab Sample ID: 310-278908-17
Date Collected: 04/10/24 13:26
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.4**		5.00	2.25	mg/L			04/15/24 23:20	5
Sulfate	**43.7**		5.00	2.10	mg/L			04/15/24 23:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 02:00	1
Boron	**0.586**		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 17:35	1
Cobalt	**0.000478**	**J**	0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 02:00	1
Magnesium	**29.1**		0.500	0.150	mg/L		04/16/24 09:00	04/23/24 02:00	1
Manganese	**1.23**		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 02:00	1
Nickel	**0.00600**		0.00500	0.00210	mg/L		04/16/24 09:00	04/23/24 02:00	1
Iron	<0.100		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 02:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			04/16/24 18:04	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	**32.5**		1.88	1.39	mg/L			04/16/24 15:47	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-18
Lab Sample ID: 310-278908-18
Date Collected: 04/10/24 13:43
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.3		5.00	2.25	mg/L			04/15/24 23:32	5
Sulfate	82.6		5.00	2.10	mg/L			04/15/24 23:32	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00232		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 02:03	1
Boron	0.306		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 17:37	1
Cobalt	0.000587		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 02:03	1
Magnesium	32.2		0.500	0.150	mg/L		04/16/24 09:00	04/23/24 02:03	1
Manganese	0.146		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 02:03	1
Iron	0.313		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 02:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.244		0.200	0.100	mg/L			04/16/24 18:07	1
Chemical Oxygen Demand (SM 5220D LL)	17.1		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	21.1		1.88	1.39	mg/L			04/16/24 15:47	1

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-D
Lab Sample ID: 310-278908-19
Date Collected: 04/10/24 12:55
Matrix: Water
Date Received: 04/12/24 16:00

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.2**		5.00	2.25	mg/L			04/15/24 23:44	5
Sulfate	**39.5**		5.00	2.10	mg/L			04/15/24 23:44	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000893**	**J**	0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 02:21	1
Boron	**0.349**		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 17:39	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 02:21	1
Iron	**0.0667**	**J**	0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 02:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			04/16/24 18:07	1
Chemical Oxygen Demand (SM 5220D LL)	**5.02**		5.00	4.80	mg/L			04/19/24 12:00	1
Total Suspended Solids (USGS I-3765-85)	**21.1**		1.88	1.39	mg/L			04/16/24 15:47	1

Client: SCS Engineers
Project/Site: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

Client Sample ID: Wet Well Leachate

Date Collected: 04/10/24 16:00
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-20

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**7.10**	**J**	10.0	3.10	ug/L			04/23/24 19:35	1
Benzene	<0.500		0.500	0.220	ug/L			04/23/24 19:35	1
Bromobenzene	<1.00		1.00	0.340	ug/L			04/23/24 19:35	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			04/23/24 19:35	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			04/23/24 19:35	1
Bromoform	<5.00		5.00	0.780	ug/L			04/23/24 19:35	1
Bromomethane	<4.00		4.00	1.10	ug/L			04/23/24 19:35	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			04/23/24 19:35	1
Carbon disulfide	**0.560**	**J**	1.00	0.450	ug/L			04/23/24 19:35	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			04/23/24 19:35	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			04/23/24 19:35	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			04/23/24 19:35	1
Chloroethane	<4.00		4.00	0.790	ug/L			04/23/24 19:35	1
Chloroform	<3.00		3.00	1.30	ug/L			04/23/24 19:35	1
Chloromethane	<3.00		3.00	0.610	ug/L			04/23/24 19:35	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			04/23/24 19:35	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			04/23/24 19:35	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			04/23/24 19:35	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			04/23/24 19:35	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00	1.20	ug/L			04/23/24 19:35	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			04/23/24 19:35	1
Dibromomethane	<1.00		1.00	0.330	ug/L			04/23/24 19:35	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			04/23/24 19:35	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			04/23/24 19:35	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			04/23/24 19:35	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			04/23/24 19:35	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			04/23/24 19:35	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			04/23/24 19:35	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			04/23/24 19:35	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			04/23/24 19:35	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			04/23/24 19:35	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			04/23/24 19:35	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			04/23/24 19:35	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			04/23/24 19:35	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			04/23/24 19:35	1
Hexane	<1.00		1.00	0.780	ug/L			04/23/24 19:35	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			04/23/24 19:35	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			04/23/24 19:35	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			04/23/24 19:35	1
Naphthalene	<5.00		5.00	3.00	ug/L			04/23/24 19:35	1
n-Butylbenzene	<1.00		1.00	0.440	ug/L			04/23/24 19:35	1
N-Propylbenzene	<1.00		1.00	0.390	ug/L			04/23/24 19:35	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			04/23/24 19:35	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			04/23/24 19:35	1
Styrene	<1.00		1.00	0.370	ug/L			04/23/24 19:35	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			04/23/24 19:35	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			04/23/24 19:35	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			04/23/24 19:35	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			04/23/24 19:35	1

Client Sample ID: Wet Well Leachate
Lab Sample ID: 310-278908-20
Date Collected: 04/10/24 16:00
Matrix: Water
Date Received: 04/12/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<1.00		1.00	0.430	ug/L			04/23/24 19:35	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			04/23/24 19:35	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			04/23/24 19:35	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			04/23/24 19:35	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			04/23/24 19:35	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			04/23/24 19:35	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			04/23/24 19:35	1
Trichloroethene	<1.00		1.00	0.430	ug/L			04/23/24 19:35	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			04/23/24 19:35	1
1,2,3-Trichloropropane	<5.00		5.00	0.590	ug/L			04/23/24 19:35	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			04/23/24 19:35	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			04/23/24 19:35	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			04/23/24 19:35	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			04/23/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/23/24 19:35*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*04/23/24 19:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/23/24 19:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<9.26		9.26	0.593	ug/L		04/17/24 14:19	04/18/24 17:56	1
Acenaphthylene	<9.26		9.26	0.667	ug/L		04/17/24 14:19	04/18/24 17:56	1
Anthracene	<9.26		9.26	0.806	ug/L		04/17/24 14:19	04/18/24 17:56	1
Benzidine	<18.5		18.5	1.02	ug/L		04/17/24 14:19	04/18/24 17:56	1
Benzo[a]anthracene	<9.26		9.26	0.787	ug/L		04/17/24 14:19	04/18/24 17:56	1
Benzo[a]pyrene	<9.26		9.26	7.50	ug/L		04/17/24 14:19	04/18/24 17:56	1
Benzo[b]fluoranthene	<9.26		9.26	4.54	ug/L		04/17/24 14:19	04/18/24 17:56	1
Benzo[g,h,i]perylene	<9.26		9.26	5.83	ug/L		04/17/24 14:19	04/18/24 17:56	1
Benzoic acid	<92.6		92.6	15.7	ug/L		04/17/24 14:19	04/18/24 17:56	1
Benzo[k]fluoranthene	<9.26		9.26	2.04	ug/L		04/17/24 14:19	04/18/24 17:56	1
Benzyl alcohol	<9.26		9.26	1.20	ug/L		04/17/24 14:19	04/18/24 17:56	1
Bis(2-chloroethoxy)methane	<9.26		9.26	0.704	ug/L		04/17/24 14:19	04/18/24 17:56	1
Bis(2-chloroethyl)ether	<9.26		9.26	0.759	ug/L		04/17/24 14:19	04/18/24 17:56	1
bis (2-chloroisopropyl) ether	<9.26		9.26	0.500	ug/L		04/17/24 14:19	04/18/24 17:56	1
Bis(2-ethylhexyl) phthalate	**17.8**	**B**	9.26	5.09	ug/L		04/17/24 14:19	04/18/24 17:56	1
4-Bromophenyl phenyl ether	<9.26		9.26	0.648	ug/L		04/17/24 14:19	04/18/24 17:56	1
Butyl benzyl phthalate	<9.26		9.26	5.00	ug/L		04/17/24 14:19	04/18/24 17:56	1
Carbazole	<9.26		9.26	0.926	ug/L		04/17/24 14:19	04/18/24 17:56	1
4-Chloroaniline	<9.26		9.26	0.574	ug/L		04/17/24 14:19	04/18/24 17:56	1
4-Chloro-3-methylphenol	<9.26		9.26	0.778	ug/L		04/17/24 14:19	04/18/24 17:56	1
2-Chloronaphthalene	<9.26		9.26	0.593	ug/L		04/17/24 14:19	04/18/24 17:56	1
2-Chlorophenol	<9.26		9.26	0.500	ug/L		04/17/24 14:19	04/18/24 17:56	1
4-Chlorophenyl phenyl ether	<9.26		9.26	0.639	ug/L		04/17/24 14:19	04/18/24 17:56	1
Chrysene	<9.26		9.26	0.806	ug/L		04/17/24 14:19	04/18/24 17:56	1
Dibenz(a,h)anthracene	<9.26		9.26	3.61	ug/L		04/17/24 14:19	04/18/24 17:56	1
Dibenzofuran	<9.26		9.26	0.685	ug/L		04/17/24 14:19	04/18/24 17:56	1
1,2-Dichlorobenzene	<9.26		9.26	0.574	ug/L		04/17/24 14:19	04/18/24 17:56	1
1,3-Dichlorobenzene	<9.26		9.26	0.593	ug/L		04/17/24 14:19	04/18/24 17:56	1

Client Sample ID: Wet Well Leachate
Lab Sample ID: 310-278908-20
Date Collected: 04/10/24 16:00
Matrix: Water
Date Received: 04/12/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<9.26		9.26	0.593	ug/L		04/17/24 14:19	04/18/24 17:56	1
3,3'-Dichlorobenzidine	**1.84**	**J**	9.26	1.30	ug/L		04/17/24 14:19	04/18/24 17:56	1
2,4-Dichlorophenol	<9.26		9.26	0.787	ug/L		04/17/24 14:19	04/18/24 17:56	1
Diethyl phthalate	<9.26		9.26	1.57	ug/L		04/17/24 14:19	04/18/24 17:56	1
2,4-Dimethylphenol	<9.26		9.26	0.537	ug/L		04/17/24 14:19	04/18/24 17:56	1
Dimethyl phthalate	<9.26		9.26	0.926	ug/L		04/17/24 14:19	04/18/24 17:56	1
Di-n-butyl phthalate	<9.26		9.26	5.19	ug/L		04/17/24 14:19	04/18/24 17:56	1
4,6-Dinitro-2-methylphenol	<9.26		9.26	6.39	ug/L		04/17/24 14:19	04/18/24 17:56	1
2,4-Dinitrophenol	<18.5		18.5	12.0	ug/L		04/17/24 14:19	04/18/24 17:56	1
2,4-Dinitrotoluene	<9.26		9.26	5.93	ug/L		04/17/24 14:19	04/18/24 17:56	1
2,6-Dinitrotoluene	<9.26		9.26	0.481	ug/L		04/17/24 14:19	04/18/24 17:56	1
Di-n-octyl phthalate	**10.3**	**J**	18.5	6.48	ug/L		04/17/24 14:19	04/18/24 17:56	1
Fluoranthene	<9.26		9.26	1.57	ug/L		04/17/24 14:19	04/18/24 17:56	1
Fluorene	<9.26		9.26	0.731	ug/L		04/17/24 14:19	04/18/24 17:56	1
Hexachlorobenzene	<9.26		9.26	0.648	ug/L		04/17/24 14:19	04/18/24 17:56	1
Hexachlorobutadiene	<9.26		9.26	0.796	ug/L		04/17/24 14:19	04/18/24 17:56	1
Hexachlorocyclopentadiene	<9.26		9.26	4.72	ug/L		04/17/24 14:19	04/18/24 17:56	1
Hexachloroethane	<9.26		9.26	0.898	ug/L		04/17/24 14:19	04/18/24 17:56	1
Indeno[1,2,3-cd]pyrene	<9.26		9.26	3.89	ug/L		04/17/24 14:19	04/18/24 17:56	1
Isophorone	<9.26		9.26	0.861	ug/L		04/17/24 14:19	04/18/24 17:56	1
2-Methylnaphthalene	<9.26		9.26	0.546	ug/L		04/17/24 14:19	04/18/24 17:56	1
2-Methylphenol	<9.26		9.26	0.602	ug/L		04/17/24 14:19	04/18/24 17:56	1
4-Methylphenol (and/or 3-Methylphenol)	<9.26		9.26	0.648	ug/L		04/17/24 14:19	04/18/24 17:56	1
Naphthalene	<9.26		9.26	5.65	ug/L		04/17/24 14:19	04/18/24 17:56	1
2-Nitroaniline	<9.26		9.26	5.46	ug/L		04/17/24 14:19	04/18/24 17:56	1
3-Nitroaniline	<9.26		9.26	2.50	ug/L		04/17/24 14:19	04/18/24 17:56	1
4-Nitroaniline	<9.26		9.26	1.20	ug/L		04/17/24 14:19	04/18/24 17:56	1
Nitrobenzene	<9.26		9.26	0.741	ug/L		04/17/24 14:19	04/18/24 17:56	1
2-Nitrophenol	<9.26		9.26	6.30	ug/L		04/17/24 14:19	04/18/24 17:56	1
4-Nitrophenol	<9.26		9.26	7.04	ug/L		04/17/24 14:19	04/18/24 17:56	1
N-Nitrosodimethylamine	<9.26		9.26	0.667	ug/L		04/17/24 14:19	04/18/24 17:56	1
N-Nitrosodi-n-propylamine	<9.26		9.26	0.852	ug/L		04/17/24 14:19	04/18/24 17:56	1
N-Nitrosodiphenylamine	<9.26		9.26	0.694	ug/L		04/17/24 14:19	04/18/24 17:56	1
Pentachlorophenol	<9.26		9.26	8.89	ug/L		04/17/24 14:19	04/18/24 17:56	1
Phenanthrene	<9.26		9.26	0.731	ug/L		04/17/24 14:19	04/18/24 17:56	1
Phenol	<9.26		9.26	1.02	ug/L		04/17/24 14:19	04/18/24 17:56	1
Pyrene	<9.26		9.26	0.731	ug/L		04/17/24 14:19	04/18/24 17:56	1
Pyridine	<9.26		9.26	1.48	ug/L		04/17/24 14:19	04/18/24 17:56	1
Total Cresols	<9.26		9.26	0.648	ug/L		04/17/24 14:19	04/18/24 17:56	1
1,2,4-Trichlorobenzene	<9.26		9.26	0.519	ug/L		04/17/24 14:19	04/18/24 17:56	1
2,4,5-Trichlorophenol	<9.26		9.26	4.91	ug/L		04/17/24 14:19	04/18/24 17:56	1
2,4,6-Trichlorophenol	<9.26		9.26	4.63	ug/L		04/17/24 14:19	04/18/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 118*	*04/17/24 14:19*	*04/18/24 17:56*	*1*
2-Fluorophenol (Surr)	*77*		*25 - 110*	*04/17/24 14:19*	*04/18/24 17:56*	*1*
Nitrobenzene-d5 (Surr)	*103*		*45 - 129*	*04/17/24 14:19*	*04/18/24 17:56*	*1*
Phenol-d5 (Surr)	*78*		*21 - 110*	*04/17/24 14:19*	*04/18/24 17:56*	*1*
Terphenyl-d14 (Surr)	*70*		*12 - 144*	*04/17/24 14:19*	*04/18/24 17:56*	*1*

Client: SCS Engineers
Project/Site: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

Client Sample ID: Wet Well Leachate

Date Collected: 04/10/24 16:00
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-20

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*27 - 136*	*04/17/24 14:19*	*04/18/24 17:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239		5.00	2.25	mg/L			04/16/24 10:13	5
Nitrate as N	0.380	H	0.200	0.0780	mg/L			04/16/24 18:15	1
Sulfate	655		50.0	21.0	mg/L			04/16/24 11:20	50

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.274	J	0.350	0.147	mg/L		04/16/24 09:00	04/22/24 15:14	7
Arsenic	0.0927		0.0140	0.00371	mg/L		04/16/24 09:00	04/24/24 15:23	7
Boron	20.6		0.700	0.532	mg/L		04/16/24 09:00	04/22/24 15:14	7
Cadmium	0.000884		0.000200	0.000100	mg/L		04/16/24 09:00	04/19/24 13:43	1
Cobalt	0.00771		0.00350	0.00119	mg/L		04/16/24 09:00	04/24/24 15:23	7
Copper	0.139		0.0350	0.0126	mg/L		04/16/24 09:00	04/24/24 15:23	7
Iron	4.38		0.100	0.0360	mg/L		04/16/24 09:00	04/19/24 13:43	1
Lead	0.00200	J	0.00350	0.00182	mg/L		04/16/24 09:00	04/22/24 15:14	7
Magnesium	448		3.50	1.05	mg/L		04/16/24 09:00	04/22/24 15:14	7
Manganese	0.0959		0.0100	0.00360	mg/L		04/16/24 09:00	04/19/24 13:43	1
Nickel	0.0559		0.00500	0.00210	mg/L		04/16/24 09:00	04/19/24 13:43	1
Potassium	263		3.50	1.05	mg/L		04/16/24 09:00	04/22/24 15:14	7
Zinc	0.0706		0.0200	0.00970	mg/L		04/16/24 09:00	04/19/24 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	0.0330		0.0100	0.00350	mg/L		04/18/24 09:38	04/18/24 17:55	1
Ammonia (EPA 350.1)	776		46.9	19.7	mg/L		04/23/24 09:31	04/23/24 21:40	9.38
Total Kjeldahl Nitrogen (EPA 351.2	754		50.0	28.5	mg/L		04/16/24 05:01	04/16/24 10:28	10
Phenols, Total (EPA 420.4)	0.0391		0.0200	0.0100	mg/L		04/15/24 08:31	04/15/24 16:24	1
Total Suspended Solids (USGS I-3765-85)	574		30.0	22.2	mg/L			04/16/24 15:47	1
Total Solids (SM 2540B)	5900		1250	1130	mg/L			04/15/24 11:24	1
Carbonaceous Biochemical Oxygen Demand (SM 5210B)	42.3	H b	3.00	3.00	mg/L			04/13/24 10:23	1

Client: SCS Engineers
Project/Site: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

Client Sample ID: Trip Blank

Date Collected: 04/10/24 00:00
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-21

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			04/23/24 14:19	1
Benzene	<0.500		0.500	0.220	ug/L			04/23/24 14:19	1
Bromobenzene	<1.00		1.00	0.340	ug/L			04/23/24 14:19	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			04/23/24 14:19	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			04/23/24 14:19	1
Bromoform	<5.00		5.00	0.780	ug/L			04/23/24 14:19	1
Bromomethane	<4.00		4.00	1.10	ug/L			04/23/24 14:19	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			04/23/24 14:19	1
Carbon disulfide	**0.457**	**J**	1.00	0.450	ug/L			04/23/24 14:19	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			04/23/24 14:19	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			04/23/24 14:19	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			04/23/24 14:19	1
Chloroethane	<4.00		4.00	0.790	ug/L			04/23/24 14:19	1
Chloroform	<3.00		3.00	1.30	ug/L			04/23/24 14:19	1
Chloromethane	<3.00		3.00	0.610	ug/L			04/23/24 14:19	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			04/23/24 14:19	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			04/23/24 14:19	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			04/23/24 14:19	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			04/23/24 14:19	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00	1.20	ug/L			04/23/24 14:19	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			04/23/24 14:19	1
Dibromomethane	<1.00		1.00	0.330	ug/L			04/23/24 14:19	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			04/23/24 14:19	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			04/23/24 14:19	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			04/23/24 14:19	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			04/23/24 14:19	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			04/23/24 14:19	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			04/23/24 14:19	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			04/23/24 14:19	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			04/23/24 14:19	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			04/23/24 14:19	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			04/23/24 14:19	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			04/23/24 14:19	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			04/23/24 14:19	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			04/23/24 14:19	1
Hexane	<1.00		1.00	0.780	ug/L			04/23/24 14:19	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			04/23/24 14:19	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			04/23/24 14:19	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			04/23/24 14:19	1
Naphthalene	<5.00		5.00	3.00	ug/L			04/23/24 14:19	1
n-Butylbenzene	<1.00		1.00	0.440	ug/L			04/23/24 14:19	1
N-Propylbenzene	<1.00		1.00	0.390	ug/L			04/23/24 14:19	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			04/23/24 14:19	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			04/23/24 14:19	1
Styrene	<1.00		1.00	0.370	ug/L			04/23/24 14:19	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			04/23/24 14:19	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			04/23/24 14:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			04/23/24 14:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			04/23/24 14:19	1

Client: SCS Engineers
Project/Site: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

Client Sample ID: Trip Blank
Date Collected: 04/10/24 00:00
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-21
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<1.00		1.00	0.430	ug/L			04/23/24 14:19	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			04/23/24 14:19	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			04/23/24 14:19	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			04/23/24 14:19	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			04/23/24 14:19	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			04/23/24 14:19	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			04/23/24 14:19	1
Trichloroethene	<1.00		1.00	0.430	ug/L			04/23/24 14:19	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			04/23/24 14:19	1
1,2,3-Trichloropropane	<5.00		5.00	0.590	ug/L			04/23/24 14:19	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			04/23/24 14:19	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			04/23/24 14:19	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			04/23/24 14:19	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			04/23/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*04/23/24 14:19*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*04/23/24 14:19*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/23/24 14:19*	*1*

Definitions/Glossary

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
b	Result Detected in the Unseeded Control blank (USB).
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

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)
310-278908-20	Wet Well Leachate	103	105	99
310-278908-21	Trip Blank	107	102	96
LCS 310-419585/6	Lab Control Sample	101	94	102
LCS 310-419585/7	Lab Control Sample	106	106	98
MB 310-419585/5	Method Blank	103	103	99

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)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(39-118)	(25-110)	(45-129)	(21-110)	(12-144)	(27-136)
310-278908-20	Wet Well Leachate	89	77	103	78	70	97
LCS 310-419017/2-A	Lab Control Sample	98	79	109	57	108	102
LCSD 310-419017/3-A	Lab Control Sample Dup	102	83	110	59	113	107
MB 310-419017/1-A	Method Blank	100	79	114	62	111	91

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Client: SCS Engineers
Project/Site: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

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

Lab Sample ID: MB 310-419585/5
Matrix: Water
Analysis Batch: 419585

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			04/23/24 13:11	1
Benzene	<0.500		0.500	0.220	ug/L			04/23/24 13:11	1
Bromobenzene	<1.00		1.00	0.340	ug/L			04/23/24 13:11	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			04/23/24 13:11	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			04/23/24 13:11	1
Bromoform	<5.00		5.00	0.780	ug/L			04/23/24 13:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			04/23/24 13:11	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			04/23/24 13:11	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			04/23/24 13:11	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			04/23/24 13:11	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			04/23/24 13:11	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			04/23/24 13:11	1
Chloroethane	<4.00		4.00	0.790	ug/L			04/23/24 13:11	1
Chloroform	<3.00		3.00	1.30	ug/L			04/23/24 13:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			04/23/24 13:11	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			04/23/24 13:11	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			04/23/24 13:11	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			04/23/24 13:11	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			04/23/24 13:11	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00	1.20	ug/L			04/23/24 13:11	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			04/23/24 13:11	1
Dibromomethane	<1.00		1.00	0.330	ug/L			04/23/24 13:11	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			04/23/24 13:11	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			04/23/24 13:11	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			04/23/24 13:11	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			04/23/24 13:11	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			04/23/24 13:11	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			04/23/24 13:11	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			04/23/24 13:11	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			04/23/24 13:11	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			04/23/24 13:11	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			04/23/24 13:11	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			04/23/24 13:11	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			04/23/24 13:11	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			04/23/24 13:11	1
Hexane	<1.00		1.00	0.780	ug/L			04/23/24 13:11	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			04/23/24 13:11	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			04/23/24 13:11	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			04/23/24 13:11	1
Naphthalene	<5.00		5.00	3.00	ug/L			04/23/24 13:11	1
n-Butylbenzene	<1.00		1.00	0.440	ug/L			04/23/24 13:11	1
N-Propylbenzene	<1.00		1.00	0.390	ug/L			04/23/24 13:11	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			04/23/24 13:11	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			04/23/24 13:11	1
Styrene	<1.00		1.00	0.370	ug/L			04/23/24 13:11	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			04/23/24 13:11	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			04/23/24 13:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			04/23/24 13:11	1

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

Lab Sample ID: MB 310-419585/5
Matrix: Water
Analysis Batch: 419585

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<1.00		1.00	0.480	ug/L			04/23/24 13:11	1
Toluene	<1.00		1.00	0.430	ug/L			04/23/24 13:11	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			04/23/24 13:11	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			04/23/24 13:11	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			04/23/24 13:11	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			04/23/24 13:11	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			04/23/24 13:11	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			04/23/24 13:11	1
Trichloroethene	<1.00		1.00	0.430	ug/L			04/23/24 13:11	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			04/23/24 13:11	1
1,2,3-Trichloropropane	<5.00		5.00	0.590	ug/L			04/23/24 13:11	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			04/23/24 13:11	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			04/23/24 13:11	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			04/23/24 13:11	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			04/23/24 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/23/24 13:11*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*04/23/24 13:11*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/23/24 13:11*	*1*

Lab Sample ID: LCS 310-419585/6
Matrix: Water
Analysis Batch: 419585

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	37.14		ug/L		93	50 - 150
Benzene	20.0	19.39		ug/L		97	72 - 124
Bromobenzene	20.0	19.14		ug/L		96	72 - 120
Bromochloromethane	20.0	20.98		ug/L		105	73 - 130
Bromodichloromethane	20.0	18.94		ug/L		95	74 - 122
Bromoform	20.0	15.85		ug/L		79	61 - 122
2-Butanone (MEK)	40.0	34.90		ug/L		87	50 - 150
Carbon disulfide	20.0	23.11		ug/L		116	59 - 135
Carbon tetrachloride	20.0	18.33		ug/L		92	67 - 132
Chlorobenzene	20.0	20.09		ug/L		100	76 - 120
Chlorodibromomethane	20.0	18.65		ug/L		93	71 - 121
Chloroform	20.0	19.71		ug/L		99	72 - 125
2-Chlorotoluene	20.0	19.23		ug/L		96	73 - 121
4-Chlorotoluene	20.0	19.79		ug/L		99	72 - 121
cis-1,2-Dichloroethene	20.0	19.96		ug/L		100	74 - 123
cis-1,3-Dichloropropene	20.0	20.18		ug/L		101	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.98		ug/L		100	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.60		ug/L		93	75 - 125
Dibromomethane	20.0	17.56		ug/L		88	74 - 125
1,2-Dichlorobenzene	20.0	19.80		ug/L		99	74 - 120
1,3-Dichlorobenzene	20.0	19.63		ug/L		98	72 - 120
1,4-Dichlorobenzene	20.0	19.50		ug/L		97	72 - 120

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

Lab Sample ID: LCS 310-419585/6
Matrix: Water
Analysis Batch: 419585

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	18.16		ug/L		91	70 - 127
1,2-Dichloroethane	20.0	18.09		ug/L		90	71 - 125
1,1-Dichloroethene	20.0	22.95		ug/L		115	63 - 132
1,2-Dichloropropane	20.0	19.59		ug/L		98	73 - 124
1,3-Dichloropropane	20.0	17.14		ug/L		86	72 - 125
2,2-Dichloropropane	20.0	20.87		ug/L		104	50 - 150
1,1-Dichloropropene	20.0	21.17		ug/L		106	69 - 132
Ethylbenzene	20.0	18.91		ug/L		95	74 - 122
Hexachlorobutadiene	20.0	21.03		ug/L		105	50 - 150
Hexane	20.0	25.75		ug/L		129	45 - 150
Isopropylbenzene	20.0	19.67		ug/L		98	73 - 125
Methylene Chloride	20.0	20.05		ug/L		100	50 - 150
Methyl tert-butyl ether	20.0	20.27		ug/L		101	68 - 130
Naphthalene	20.0	18.65		ug/L		93	50 - 150
n-Butylbenzene	20.0	20.68		ug/L		103	67 - 131
N-Propylbenzene	20.0	20.14		ug/L		101	72 - 126
p-Isopropyltoluene	20.0	20.41		ug/L		102	70 - 127
sec-Butylbenzene	20.0	20.39		ug/L		102	70 - 127
Styrene	20.0	19.83		ug/L		99	74 - 121
tert-Butylbenzene	20.0	20.55		ug/L		103	72 - 124
1,1,1,2-Tetrachloroethane	20.0	17.88		ug/L		89	71 - 120
1,1,2,2-Tetrachloroethane	20.0	18.07		ug/L		90	68 - 124
Tetrachloroethene	20.0	21.60		ug/L		108	71 - 130
Toluene	20.0	19.10		ug/L		96	74 - 123
trans-1,2-Dichloroethene	20.0	20.89		ug/L		104	70 - 126
trans-1,3-Dichloropropene	20.0	19.04		ug/L		95	69 - 123
1,2,3-Trichlorobenzene	20.0	19.72		ug/L		99	50 - 150
1,2,4-Trichlorobenzene	20.0	20.62		ug/L		103	68 - 124
1,1,1-Trichloroethane	20.0	19.80		ug/L		99	73 - 129
1,1,2-Trichloroethane	20.0	19.91		ug/L		100	73 - 123
Trichloroethene	20.0	18.97		ug/L		95	72 - 126
1,2,3-Trichloropropane	20.0	21.65		ug/L		108	65 - 127
1,2,4-Trimethylbenzene	20.0	19.85		ug/L		99	73 - 124
1,3,5-Trimethylbenzene	20.0	20.11		ug/L		101	73 - 123
Xylenes, Total	40.0	39.49		ug/L		99	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*73 - 130*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCS 310-419585/7
Matrix: Water
Analysis Batch: 419585

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.70		ug/L		74	23 - 150
Chloroethane	20.0	19.66		ug/L		98	54 - 136

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

Lab Sample ID: LCS 310-419585/7
Matrix: Water
Analysis Batch: 419585

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	20.0	18.93		ug/L		95	38 - 150
Dichlorodifluoromethane	20.0	24.27		ug/L		121	39 - 150
Trichlorofluoromethane	20.0	22.63		ug/L		113	54 - 149
Vinyl chloride	20.0	21.11		ug/L		106	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*

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

Lab Sample ID: MB 310-419017/1-A
Matrix: Water
Analysis Batch: 419071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<10.0		10.0	0.640	ug/L		04/17/24 14:19	04/18/24 14:25	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		04/17/24 14:19	04/18/24 14:25	1
Anthracene	<10.0		10.0	0.870	ug/L		04/17/24 14:19	04/18/24 14:25	1
Benzidine	<20.0		20.0	1.10	ug/L		04/17/24 14:19	04/18/24 14:25	1
Benzo[a]anthracene	<10.0		10.0	0.850	ug/L		04/17/24 14:19	04/18/24 14:25	1
Benzo[a]pyrene	<10.0		10.0	8.10	ug/L		04/17/24 14:19	04/18/24 14:25	1
Benzo[b]fluoranthene	<10.0		10.0	4.90	ug/L		04/17/24 14:19	04/18/24 14:25	1
Benzo[g,h,i]perylene	<10.0		10.0	6.30	ug/L		04/17/24 14:19	04/18/24 14:25	1
Benzoic acid	<100		100	17.0	ug/L		04/17/24 14:19	04/18/24 14:25	1
Benzo[k]fluoranthene	<10.0		10.0	2.20	ug/L		04/17/24 14:19	04/18/24 14:25	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		04/17/24 14:19	04/18/24 14:25	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		04/17/24 14:19	04/18/24 14:25	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		04/17/24 14:19	04/18/24 14:25	1
bis (2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		04/17/24 14:19	04/18/24 14:25	1
Bis(2-ethylhexyl) phthalate	7.457	J	10.0	5.50	ug/L		04/17/24 14:19	04/18/24 14:25	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		04/17/24 14:19	04/18/24 14:25	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		04/17/24 14:19	04/18/24 14:25	1
Carbazole	<10.0		10.0	1.00	ug/L		04/17/24 14:19	04/18/24 14:25	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		04/17/24 14:19	04/18/24 14:25	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		04/17/24 14:19	04/18/24 14:25	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		04/17/24 14:19	04/18/24 14:25	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		04/17/24 14:19	04/18/24 14:25	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		04/17/24 14:19	04/18/24 14:25	1
Chrysene	<10.0		10.0	0.870	ug/L		04/17/24 14:19	04/18/24 14:25	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		04/17/24 14:19	04/18/24 14:25	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		04/17/24 14:19	04/18/24 14:25	1
1,2-Dichlorobenzene	<10.0		10.0	0.620	ug/L		04/17/24 14:19	04/18/24 14:25	1
1,3-Dichlorobenzene	<10.0		10.0	0.640	ug/L		04/17/24 14:19	04/18/24 14:25	1
1,4-Dichlorobenzene	<10.0		10.0	0.640	ug/L		04/17/24 14:19	04/18/24 14:25	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		04/17/24 14:19	04/18/24 14:25	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		04/17/24 14:19	04/18/24 14:25	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		04/17/24 14:19	04/18/24 14:25	1

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

Lab Sample ID: MB 310-419017/1-A
Matrix: Water
Analysis Batch: 419071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		04/17/24 14:19	04/18/24 14:25	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		04/17/24 14:19	04/18/24 14:25	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		04/17/24 14:19	04/18/24 14:25	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		04/17/24 14:19	04/18/24 14:25	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		04/17/24 14:19	04/18/24 14:25	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		04/17/24 14:19	04/18/24 14:25	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		04/17/24 14:19	04/18/24 14:25	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		04/17/24 14:19	04/18/24 14:25	1
Fluoranthene	<10.0		10.0	1.70	ug/L		04/17/24 14:19	04/18/24 14:25	1
Fluorene	<10.0		10.0	0.790	ug/L		04/17/24 14:19	04/18/24 14:25	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		04/17/24 14:19	04/18/24 14:25	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		04/17/24 14:19	04/18/24 14:25	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		04/17/24 14:19	04/18/24 14:25	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		04/17/24 14:19	04/18/24 14:25	1
Indeno[1,2,3-cd]pyrene	<10.0		10.0	4.20	ug/L		04/17/24 14:19	04/18/24 14:25	1
Isophorone	<10.0		10.0	0.930	ug/L		04/17/24 14:19	04/18/24 14:25	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		04/17/24 14:19	04/18/24 14:25	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		04/17/24 14:19	04/18/24 14:25	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		04/17/24 14:19	04/18/24 14:25	1
Naphthalene	<10.0		10.0	6.10	ug/L		04/17/24 14:19	04/18/24 14:25	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		04/17/24 14:19	04/18/24 14:25	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		04/17/24 14:19	04/18/24 14:25	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		04/17/24 14:19	04/18/24 14:25	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		04/17/24 14:19	04/18/24 14:25	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		04/17/24 14:19	04/18/24 14:25	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		04/17/24 14:19	04/18/24 14:25	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		04/17/24 14:19	04/18/24 14:25	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		04/17/24 14:19	04/18/24 14:25	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		04/17/24 14:19	04/18/24 14:25	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		04/17/24 14:19	04/18/24 14:25	1
Phenanthrene	<10.0		10.0	0.790	ug/L		04/17/24 14:19	04/18/24 14:25	1
Phenol	<10.0		10.0	1.10	ug/L		04/17/24 14:19	04/18/24 14:25	1
Pyrene	<10.0		10.0	0.790	ug/L		04/17/24 14:19	04/18/24 14:25	1
Pyridine	<10.0		10.0	1.60	ug/L		04/17/24 14:19	04/18/24 14:25	1
Total Cresols	<10.0		10.0	0.700	ug/L		04/17/24 14:19	04/18/24 14:25	1
1,2,4-Trichlorobenzene	<10.0		10.0	0.560	ug/L		04/17/24 14:19	04/18/24 14:25	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		04/17/24 14:19	04/18/24 14:25	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		04/17/24 14:19	04/18/24 14:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*100*		*39 - 118*	*04/17/24 14:19*	*04/18/24 14:25*	*1*
2-Fluorophenol (Surr)	*79*		*25 - 110*	*04/17/24 14:19*	*04/18/24 14:25*	*1*
Nitrobenzene-d5 (Surr)	*114*		*45 - 129*	*04/17/24 14:19*	*04/18/24 14:25*	*1*
Phenol-d5 (Surr)	*62*		*21 - 110*	*04/17/24 14:19*	*04/18/24 14:25*	*1*
Terphenyl-d14 (Surr)	*111*		*12 - 144*	*04/17/24 14:19*	*04/18/24 14:25*	*1*
2,4,6-Tribromophenol (Surr)	*91*		*27 - 136*	*04/17/24 14:19*	*04/18/24 14:25*	*1*

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

Lab Sample ID: LCS 310-419017/2-A
Matrix: Water
Analysis Batch: 419071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	100	93.73		ug/L		94	43 - 110
Acenaphthylene	100	97.66		ug/L		98	40 - 110
Anthracene	100	107.0		ug/L		107	51 - 120
Benzo[a]anthracene	100	103.7		ug/L		104	51 - 123
Benzo[a]pyrene	100	99.70		ug/L		100	48 - 125
Benzo[b]fluoranthene	100	115.2		ug/L		115	49 - 129
Benzo[g,h,i]perylene	100	99.21		ug/L		99	43 - 139
Benzo[k]fluoranthene	100	111.0		ug/L		111	47 - 130
Benzyl alcohol	100	103.5		ug/L		104	39 - 128
Bis(2-chloroethoxy)methane	100	111.1		ug/L		111	48 - 121
Bis(2-chloroethyl)ether	100	104.7		ug/L		105	43 - 123
bis (2-chloroisopropyl) ether	100	98.18		ug/L		98	34 - 123
Bis(2-ethylhexyl) phthalate	100	118.9		ug/L		119	43 - 143
4-Bromophenyl phenyl ether	100	109.6		ug/L		110	45 - 119
Butyl benzyl phthalate	100	113.0		ug/L		113	46 - 135
Carbazole	100	100.0		ug/L		100	51 - 126
4-Chloroaniline	100	104.8		ug/L		105	21 - 139
4-Chloro-3-methylphenol	100	94.34		ug/L		94	49 - 130
2-Chloronaphthalene	100	100.2		ug/L		100	37 - 110
2-Chlorophenol	100	101.0		ug/L		101	44 - 117
4-Chlorophenyl phenyl ether	100	91.75		ug/L		92	44 - 116
Chrysene	100	100.2		ug/L		100	51 - 125
Dibenz(a,h)anthracene	100	106.1		ug/L		106	38 - 149
Dibenzofuran	100	92.13		ug/L		92	45 - 112
1,2-Dichlorobenzene	100	82.38		ug/L		82	33 - 110
1,3-Dichlorobenzene	100	73.70		ug/L		74	31 - 110
1,4-Dichlorobenzene	100	72.88		ug/L		73	32 - 110
2,4-Dichlorophenol	100	102.7		ug/L		103	41 - 124
Diethyl phthalate	100	93.44		ug/L		93	43 - 135
2,4-Dimethylphenol	100	105.7		ug/L		106	31 - 142
Dimethyl phthalate	100	101.8		ug/L		102	43 - 129
Di-n-butyl phthalate	100	118.9		ug/L		119	50 - 133
4,6-Dinitro-2-methylphenol	200	200.7		ug/L		100	22 - 143
2,4-Dinitrophenol	200	128.8		ug/L		64	10 - 138
2,4-Dinitrotoluene	100	104.6		ug/L		105	47 - 137
2,6-Dinitrotoluene	100	109.2		ug/L		109	51 - 130
Di-n-octyl phthalate	100	112.3		ug/L		112	34 - 150
Fluoranthene	100	104.7		ug/L		105	47 - 128
Fluorene	100	88.86		ug/L		89	45 - 119
Hexachlorobenzene	100	111.9		ug/L		112	48 - 119
Hexachlorobutadiene	100	87.86		ug/L		88	32 - 110
Hexachlorocyclopentadiene	100	66.86		ug/L		67	10 - 110
Hexachloroethane	100	75.42		ug/L		75	31 - 110
Indeno[1,2,3-cd]pyrene	100	117.5		ug/L		118	37 - 150
Isophorone	100	104.2		ug/L		104	50 - 125
2-Methylnaphthalene	100	87.99		ug/L		88	33 - 110
2-Methylphenol	100	103.2		ug/L		103	47 - 118
4-Methylphenol (and/or 3-Methylphenol)	100	98.02		ug/L		98	46 - 117

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

Lab Sample ID: LCS 310-419017/2-A
Matrix: Water
Analysis Batch: 419071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	100	85.42		ug/L		85	38 - 110
2-Nitroaniline	100	103.4		ug/L		103	50 - 135
3-Nitroaniline	100	98.47		ug/L		98	42 - 139
4-Nitroaniline	100	84.38		ug/L		84	31 - 145
Nitrobenzene	100	100.6		ug/L		101	47 - 116
2-Nitrophenol	100	115.4		ug/L		115	41 - 129
4-Nitrophenol	200	102.6		ug/L		51	18 - 110
N-Nitrosodimethylamine	100	84.01		ug/L		84	37 - 110
N-Nitrosodi-n-propylamine	100	108.3		ug/L		108	45 - 130
N-Nitrosodiphenylamine	100	109.4		ug/L		109	49 - 121
Pentachlorophenol	200	200.4		ug/L		100	26 - 133
Phenanthrene	100	102.0		ug/L		102	51 - 117
Phenol	100	58.14		ug/L		58	29 - 110
Pyrene	100	114.5		ug/L		115	48 - 127
Pyridine	200	115.0		ug/L		58	10 - 110
1,2,4-Trichlorobenzene	100	86.36		ug/L		86	33 - 110
2,4,5-Trichlorophenol	100	96.47		ug/L		96	35 - 133
2,4,6-Trichlorophenol	100	107.0		ug/L		107	28 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*39 - 118*
2-Fluorophenol (Surr)	*79*		*25 - 110*
Nitrobenzene-d5 (Surr)	*109*		*45 - 129*
Phenol-d5 (Surr)	*57*		*21 - 110*
Terphenyl-d14 (Surr)	*108*		*12 - 144*
2,4,6-Tribromophenol (Surr)	*102*		*27 - 136*

Lab Sample ID: LCSD 310-419017/3-A
Matrix: Water
Analysis Batch: 419071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419017

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	100	92.06		ug/L		92	43 - 110	2	35
Acenaphthylene	100	96.20		ug/L		96	40 - 110	2	35
Anthracene	100	104.0		ug/L		104	51 - 120	3	35
Benzo[a]anthracene	100	104.5		ug/L		105	51 - 123	1	35
Benzo[a]pyrene	100	99.16		ug/L		99	48 - 125	1	35
Benzo[b]fluoranthene	100	119.0		ug/L		119	49 - 129	3	35
Benzo[g,h,i]perylene	100	96.88		ug/L		97	43 - 139	2	35
Benzo[k]fluoranthene	100	104.4		ug/L		104	47 - 130	6	35
Benzyl alcohol	100	102.7		ug/L		103	39 - 128	1	35
Bis(2-chloroethoxy)methane	100	110.4		ug/L		110	48 - 121	1	35
Bis(2-chloroethyl)ether	100	103.8		ug/L		104	43 - 123	1	35
bis (2-chloroisopropyl) ether	100	98.24		ug/L		98	34 - 123	0	35
Bis(2-ethylhexyl) phthalate	100	119.5		ug/L		120	43 - 143	1	35
4-Bromophenyl phenyl ether	100	109.9		ug/L		110	45 - 119	0	35
Butyl benzyl phthalate	100	111.0		ug/L		111	46 - 135	2	35
Carbazole	100	95.80		ug/L		96	51 - 126	4	35

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

Lab Sample ID: LCSD 310-419017/3-A
Matrix: Water
Analysis Batch: 419071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419017

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Chloroaniline	100	107.4		ug/L		107	21 - 139	2	35
4-Chloro-3-methylphenol	100	95.46		ug/L		95	49 - 130	1	35
2-Chloronaphthalene	100	107.3		ug/L		107	37 - 110	7	35
2-Chlorophenol	100	101.9		ug/L		102	44 - 117	1	35
4-Chlorophenyl phenyl ether	100	92.67		ug/L		93	44 - 116	1	35
Chrysene	100	98.16		ug/L		98	51 - 125	2	35
Dibenz(a,h)anthracene	100	104.4		ug/L		104	38 - 149	2	35
Dibenzofuran	100	90.93		ug/L		91	45 - 112	1	35
1,2-Dichlorobenzene	100	82.98		ug/L		83	33 - 110	1	35
1,3-Dichlorobenzene	100	73.46		ug/L		73	31 - 110	0	35
1,4-Dichlorobenzene	100	73.25		ug/L		73	32 - 110	1	35
2,4-Dichlorophenol	100	101.0		ug/L		101	41 - 124	2	35
Diethyl phthalate	100	92.26		ug/L		92	43 - 135	1	35
2,4-Dimethylphenol	100	106.2		ug/L		106	31 - 142	0	35
Dimethyl phthalate	100	101.6		ug/L		102	43 - 129	0	35
Di-n-butyl phthalate	100	116.4		ug/L		116	50 - 133	2	35
4,6-Dinitro-2-methylphenol	200	197.2		ug/L		99	22 - 143	2	35
2,4-Dinitrophenol	200	109.4		ug/L		55	10 - 138	16	35
2,4-Dinitrotoluene	100	102.1		ug/L		102	47 - 137	2	35
2,6-Dinitrotoluene	100	109.7		ug/L		110	51 - 130	0	35
Di-n-octyl phthalate	100	113.2		ug/L		113	34 - 150	1	35
Fluoranthene	100	101.8		ug/L		102	47 - 128	3	35
Fluorene	100	89.05		ug/L		89	45 - 119	0	35
Hexachlorobenzene	100	114.8		ug/L		115	48 - 119	3	35
Hexachlorobutadiene	100	88.84		ug/L		89	32 - 110	1	35
Hexachlorocyclopentadiene	100	70.67		ug/L		71	10 - 110	6	35
Hexachloroethane	100	77.10		ug/L		77	31 - 110	2	35
Indeno[1,2,3-cd]pyrene	100	115.8		ug/L		116	37 - 150	2	35
Isophorone	100	100.9		ug/L		101	50 - 125	3	35
2-Methylnaphthalene	100	87.53		ug/L		88	33 - 110	1	35
2-Methylphenol	100	104.0		ug/L		104	47 - 118	1	35
4-Methylphenol (and/or 3-Methylphenol)	100	98.57		ug/L		99	46 - 117	1	35
Naphthalene	100	82.99		ug/L		83	38 - 110	3	35
2-Nitroaniline	100	102.3		ug/L		102	50 - 135	1	35
3-Nitroaniline	100	95.76		ug/L		96	42 - 139	3	35
4-Nitroaniline	100	84.63		ug/L		85	31 - 145	0	35
Nitrobenzene	100	99.25		ug/L		99	47 - 116	1	35
2-Nitrophenol	100	115.2		ug/L		115	41 - 129	0	35
4-Nitrophenol	200	103.5		ug/L		52	18 - 110	1	35
N-Nitrosodimethylamine	100	81.16		ug/L		81	37 - 110	3	35
N-Nitrosodi-n-propylamine	100	105.7		ug/L		106	45 - 130	2	35
N-Nitrosodiphenylamine	100	109.1		ug/L		109	49 - 121	0	35
Pentachlorophenol	200	197.9		ug/L		99	26 - 133	1	35
Phenanthrene	100	100.8		ug/L		101	51 - 117	1	35
Phenol	100	57.36		ug/L		57	29 - 110	1	35
Pyrene	100	114.3		ug/L		114	48 - 127	0	35
Pyridine	200	143.3		ug/L		72	10 - 110	22	35
1,2,4-Trichlorobenzene	100	85.41		ug/L		85	33 - 110	1	35

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

Lab Sample ID: LCSD 310-419017/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 419071
Prep Batch: 419017

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol			100	95.23		ug/L		95	35 - 133	1	35
2,4,6-Trichlorophenol			100	107.5		ug/L		107	28 - 139	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*102*		*39 - 118*
2-Fluorophenol (Surr)	*83*		*25 - 110*
Nitrobenzene-d5 (Surr)	*110*		*45 - 129*
Phenol-d5 (Surr)	*59*		*21 - 110*
Terphenyl-d14 (Surr)	*113*		*12 - 144*
2,4,6-Tribromophenol (Surr)	*107*		*27 - 136*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-418881/3
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 418881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			04/15/24 18:30	1
Sulfate	<1.00		1.00	0.420	mg/L			04/15/24 18:30	1

Lab Sample ID: LCS 310-418881/4
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 418881

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	10.07		mg/L		101	90 - 110		
Sulfate			10.0	10.54		mg/L		105	90 - 110		

Lab Sample ID: 310-278908-1 MS
Client Sample ID: MW-1
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 418881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	179		25.0	201.6	4	mg/L		89	80 - 120		
Sulfate	35.8		25.0	61.69		mg/L		103	80 - 120		

Lab Sample ID: 310-278908-1 MSD
Client Sample ID: MW-1
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 418881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	179		25.0	201.1	4	mg/L		87	80 - 120	0	15
Sulfate	35.8		25.0	61.53		mg/L		103	80 - 120	0	15

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 310-418779/1-A
Matrix: Water
Analysis Batch: 419401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0210	mg/L		04/16/24 09:00	04/19/24 12:55	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/16/24 09:00	04/19/24 12:55	1
Boron	<0.100		0.100	0.0760	mg/L		04/16/24 09:00	04/19/24 12:55	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/16/24 09:00	04/19/24 12:55	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/16/24 09:00	04/19/24 12:55	1
Copper	<0.00500		0.00500	0.00180	mg/L		04/16/24 09:00	04/19/24 12:55	1
Iron	<0.100		0.100	0.0360	mg/L		04/16/24 09:00	04/19/24 12:55	1
Lead	<0.000500		0.000500	0.000260	mg/L		04/16/24 09:00	04/19/24 12:55	1
Magnesium	<0.500		0.500	0.150	mg/L		04/16/24 09:00	04/19/24 12:55	1
Manganese	<0.0100		0.0100	0.00360	mg/L		04/16/24 09:00	04/19/24 12:55	1
Nickel	<0.00500		0.00500	0.00210	mg/L		04/16/24 09:00	04/19/24 12:55	1
Potassium	<0.500		0.500	0.150	mg/L		04/16/24 09:00	04/19/24 12:55	1
Zinc	<0.0200		0.0200	0.00970	mg/L		04/16/24 09:00	04/19/24 12:55	1

Lab Sample ID: LCS 310-418779/2-A
Matrix: Water
Analysis Batch: 419401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 418779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.200	0.1942		mg/L		97	85 - 115
Arsenic	0.200	0.1887		mg/L		94	85 - 115
Boron	0.200	0.1896		mg/L		95	85 - 115
Cadmium	0.100	0.08910		mg/L		89	85 - 115
Cobalt	0.100	0.1021		mg/L		102	85 - 115
Copper	0.200	0.1902		mg/L		95	85 - 115
Iron	0.200	0.1974		mg/L		99	85 - 115
Lead	0.200	0.1935		mg/L		97	85 - 115
Magnesium	2.00	1.904		mg/L		95	85 - 115
Manganese	0.100	0.09201		mg/L		92	85 - 115
Nickel	0.200	0.1863		mg/L		93	85 - 115
Potassium	2.00	1.907		mg/L		95	85 - 115
Zinc	0.200	0.1815		mg/L		91	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-418780/1-A
Matrix: Water
Analysis Batch: 419537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/16/24 09:00	04/23/24 00:15	1
Boron	<0.100		0.100	0.0760	mg/L		04/16/24 09:00	04/23/24 00:15	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/16/24 09:00	04/23/24 00:15	1
Magnesium	<0.500		0.500	0.150	mg/L		04/16/24 09:00	04/23/24 00:15	1
Manganese	<0.0100		0.0100	0.00360	mg/L		04/16/24 09:00	04/23/24 00:15	1
Nickel	<0.00500		0.00500	0.00210	mg/L		04/16/24 09:00	04/23/24 00:15	1
Iron	<0.100		0.100	0.0360	mg/L		04/16/24 09:00	04/23/24 00:15	1

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

Lab Sample ID: LCS 310-418780/2-A
Matrix: Water
Analysis Batch: 419537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 418780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1888		mg/L		94	80 - 120
Boron	0.200	0.1847		mg/L		92	80 - 120
Cobalt	0.100	0.09278		mg/L		93	80 - 120
Magnesium	2.00	1.831		mg/L		92	80 - 120
Manganese	0.100	0.09353		mg/L		94	80 - 120
Nickel	0.200	0.1850		mg/L		93	80 - 120
Iron	0.200	0.1839		mg/L		92	80 - 120

Lab Sample ID: 310-278908-1 MS
Matrix: Water
Analysis Batch: 419537

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 418780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.000786	J	0.200	0.1953		mg/L		97	75 - 125
Cobalt	<0.000500		0.100	0.08867		mg/L		89	75 - 125
Magnesium	47.2		2.00	47.89	4	mg/L		35	75 - 125
Manganese	<0.0100		0.100	0.09257		mg/L		93	75 - 125
Nickel	<0.00500		0.200	0.1738		mg/L		87	75 - 125
Iron	<0.100		0.200	0.1808		mg/L		90	75 - 125

Lab Sample ID: 310-278908-1 MS
Matrix: Water
Analysis Batch: 419651

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 418780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.112		0.200	0.3017		mg/L		95	75 - 125

Lab Sample ID: 310-278908-1 MSD
Matrix: Water
Analysis Batch: 419537

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 418780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.000786	J	0.200	0.1918		mg/L		96	75 - 125	2	20
Cobalt	<0.000500		0.100	0.08528		mg/L		85	75 - 125	4	20
Magnesium	47.2		2.00	47.72	4	mg/L		27	75 - 125	0	20
Manganese	<0.0100		0.100	0.09018		mg/L		90	75 - 125	3	20
Nickel	<0.00500		0.200	0.1687		mg/L		84	75 - 125	3	20
Iron	<0.100		0.200	0.1820		mg/L		91	75 - 125	1	20

Lab Sample ID: 310-278908-1 MSD
Matrix: Water
Analysis Batch: 419651

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 418780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.112		0.200	0.3001		mg/L		94	75 - 125	1	20

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

Lab Sample ID: 310-278908-11 DU
Matrix: Water
Analysis Batch: 419537

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 418780

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0762		0.07559		mg/L		0.8	20
Cobalt	0.0194		0.01889		mg/L		3	20
Manganese	1.04		1.020		mg/L		2	20
Nickel	0.00999		0.009670		mg/L		3	20
Iron	69.4		67.69		mg/L		3	20

Lab Sample ID: 310-278908-11 DU
Matrix: Water
Analysis Batch: 419651

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 418780

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	1.12		0.8589	F5	mg/L		27	20

Lab Sample ID: 310-278908-11 DU
Matrix: Water
Analysis Batch: 419808

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 418780

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	97.8		90.06		mg/L		8	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 310-419112/1-A
Matrix: Water
Analysis Batch: 419203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0100		0.0100	0.00350	mg/L		04/18/24 09:38	04/18/24 17:43	1

Lab Sample ID: LCS 310-419112/2-A
Matrix: Water
Analysis Batch: 419203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.1940		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-418900/118
Matrix: Water
Analysis Batch: 418900

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.200		0.200	0.100	mg/L			04/16/24 18:00	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 310-418900/90
Matrix: Water
Analysis Batch: 418900

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.200		0.200	0.100	mg/L			04/16/24 17:38	1

Lab Sample ID: LCS 310-418900/119
Matrix: Water
Analysis Batch: 418900

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	8.55	8.401		mg/L		98	90 - 110

Lab Sample ID: LCS 310-418900/91
Matrix: Water
Analysis Batch: 418900

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	8.55	8.540		mg/L		100	90 - 110

Lab Sample ID: 310-278908-16 MS
Matrix: Water
Analysis Batch: 418900

Client Sample ID: MW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.200	F1	1.00	0.8120	F1	mg/L		81	90 - 110

Lab Sample ID: 310-278908-16 MSD
Matrix: Water
Analysis Batch: 418900

Client Sample ID: MW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.200	F1	1.00	0.8123	F1	mg/L		81	90 - 110	0	10

Lab Sample ID: MB 310-419551/1-A
Matrix: Water
Analysis Batch: 419635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.500		0.500	0.210	mg/L		04/23/24 09:31	04/23/24 20:59	1

Lab Sample ID: LCS 310-419551/2-A
Matrix: Water
Analysis Batch: 419635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	4.00	3.656		mg/L		91	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 310-418800/1-A
Matrix: Water
Analysis Batch: 418861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00	0.570	mg/L		04/16/24 05:01	04/16/24 09:56	1

Lab Sample ID: LCS 310-418800/2-A
Matrix: Water
Analysis Batch: 418861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 418800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	8.01	7.830		mg/L		98	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 310-418693/1-A
Matrix: Water
Analysis Batch: 418790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<0.0200		0.0200	0.0100	mg/L		04/15/24 08:31	04/15/24 16:18	1

Lab Sample ID: LCS 310-418693/2-A
Matrix: Water
Analysis Batch: 418790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 418693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.100	0.09440		mg/L		94	90 - 110

Method: 5220D LL - COD

Lab Sample ID: MB 310-419269/32
Matrix: Water
Analysis Batch: 419269

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.80	mg/L			04/19/24 12:00	1

Lab Sample ID: MB 310-419269/60
Matrix: Water
Analysis Batch: 419269

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.80	mg/L			04/19/24 12:00	1

Lab Sample ID: LCS 310-419269/33
Matrix: Water
Analysis Batch: 419269

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	122.8		mg/L		98	85 - 115

Method: 5220D LL - COD (Continued)

Lab Sample ID: LCS 310-419269/63
Matrix: Water
Analysis Batch: 419269

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand			125	124.5		mg/L		99	85 - 115		

Lab Sample ID: 310-278908-2 MS
Matrix: Water
Analysis Batch: 419269

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand	8.72		50.0	66.94		mg/L		116	80 - 148		

Lab Sample ID: 310-278908-2 MSD
Matrix: Water
Analysis Batch: 419269

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	8.72		50.0	64.92		mg/L		112	80 - 148	3	10

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-418767/1
Matrix: Water
Analysis Batch: 418767

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			04/15/24 13:50	1

Lab Sample ID: LCS 310-418767/2
Matrix: Water
Analysis Batch: 418767

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	100.0		mg/L		100	75 - 116		

Lab Sample ID: MB 310-418893/1
Matrix: Water
Analysis Batch: 418893

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			04/16/24 15:47	1

Lab Sample ID: LCS 310-418893/2
Matrix: Water
Analysis Batch: 418893

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	94.00		mg/L		94	75 - 116		

Method: SM 2540B - Solids, Total

Lab Sample ID: MB 310-418741/1
Matrix: Water
Analysis Batch: 418741

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	<50.0		50.0	45.0	mg/L			04/15/24 11:24	1

Lab Sample ID: LCS 310-418741/2
Matrix: Water
Analysis Batch: 418741

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Solids	1000	1054		mg/L		105	89 - 115

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 310-418663/1
Matrix: Water
Analysis Batch: 418663

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<3.00		3.00	3.00	mg/L			04/13/24 09:51	1

Lab Sample ID: LCS 310-418663/2
Matrix: Water
Analysis Batch: 418663

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbonaceous Biochemical Oxygen Demand	198	217.0		mg/L		110	76 - 126

GC/MS VOA

Analysis Batch: 419585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	8260D	
310-278908-21	Trip Blank	Total/NA	Water	8260D	
MB 310-419585/5	Method Blank	Total/NA	Water	8260D	
LCS 310-419585/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-419585/7	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 419017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	3510C	
MB 310-419017/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-419017/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-419017/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 419071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	8270E	419017
MB 310-419017/1-A	Method Blank	Total/NA	Water	8270E	419017
LCS 310-419017/2-A	Lab Control Sample	Total/NA	Water	8270E	419017
LCSD 310-419017/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	419017

HPLC/IC

Analysis Batch: 418881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-1	MW-1	Total/NA	Water	9056A	
310-278908-2	MW-2	Total/NA	Water	9056A	
310-278908-3	MW-3	Total/NA	Water	9056A	
310-278908-4	MW-4	Total/NA	Water	9056A	
310-278908-5	MW-5	Total/NA	Water	9056A	
310-278908-5	MW-5	Total/NA	Water	9056A	
310-278908-6	MW-6	Total/NA	Water	9056A	
310-278908-7	MW-7	Total/NA	Water	9056A	
310-278908-8	MW-8	Total/NA	Water	9056A	
310-278908-9	MW-9	Total/NA	Water	9056A	
310-278908-9	MW-9	Total/NA	Water	9056A	
310-278908-10	MW-10	Total/NA	Water	9056A	
310-278908-11	MW-11	Total/NA	Water	9056A	
310-278908-12	MW-12	Total/NA	Water	9056A	
310-278908-13	MW-13	Total/NA	Water	9056A	
310-278908-14	MW-14	Total/NA	Water	9056A	
310-278908-15	MW-15	Total/NA	Water	9056A	
310-278908-16	MW-16	Total/NA	Water	9056A	
310-278908-17	MW-17	Total/NA	Water	9056A	
310-278908-18	MW-18	Total/NA	Water	9056A	
310-278908-19	MW-D	Total/NA	Water	9056A	
310-278908-20	Wet Well Leachate	Total/NA	Water	300.0	
310-278908-20	Wet Well Leachate	Total/NA	Water	300.0	
MB 310-418881/3	Method Blank	Total/NA	Water	9056A	
LCS 310-418881/4	Lab Control Sample	Total/NA	Water	9056A	
310-278908-1 MS	MW-1	Total/NA	Water	9056A	

HPLC/IC (Continued)

Analysis Batch: 418881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-1 MSD	MW-1	Total/NA	Water	9056A	

Analysis Batch: 419008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	300.0	

Metals

Prep Batch: 418779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	200.8	
MB 310-418779/1-A	Method Blank	Total/NA	Water	200.8	
LCS 310-418779/2-A	Lab Control Sample	Total/NA	Water	200.8	

Prep Batch: 418780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-1	MW-1	Total/NA	Water	3005A	
310-278908-2	MW-2	Total/NA	Water	3005A	
310-278908-3	MW-3	Total/NA	Water	3005A	
310-278908-4	MW-4	Total/NA	Water	3005A	
310-278908-5	MW-5	Total/NA	Water	3005A	
310-278908-6	MW-6	Total/NA	Water	3005A	
310-278908-7	MW-7	Total/NA	Water	3005A	
310-278908-8	MW-8	Total/NA	Water	3005A	
310-278908-9	MW-9	Total/NA	Water	3005A	
310-278908-10	MW-10	Total/NA	Water	3005A	
310-278908-11	MW-11	Total/NA	Water	3005A	
310-278908-12	MW-12	Total/NA	Water	3005A	
310-278908-13	MW-13	Total/NA	Water	3005A	
310-278908-14	MW-14	Total/NA	Water	3005A	
310-278908-15	MW-15	Total/NA	Water	3005A	
310-278908-16	MW-16	Total/NA	Water	3005A	
310-278908-17	MW-17	Total/NA	Water	3005A	
310-278908-18	MW-18	Total/NA	Water	3005A	
310-278908-19	MW-D	Total/NA	Water	3005A	
MB 310-418780/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-418780/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-278908-1 MS	MW-1	Total/NA	Water	3005A	
310-278908-1 MSD	MW-1	Total/NA	Water	3005A	
310-278908-11 DU	MW-11	Total/NA	Water	3005A	

Analysis Batch: 419401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	200.8	418779
MB 310-418779/1-A	Method Blank	Total/NA	Water	200.8	418779
LCS 310-418779/2-A	Lab Control Sample	Total/NA	Water	200.8	418779

Analysis Batch: 419536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	200.8	418779

Metals

Analysis Batch: 419537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-1	MW-1	Total/NA	Water	6020B	418780
310-278908-2	MW-2	Total/NA	Water	6020B	418780
310-278908-3	MW-3	Total/NA	Water	6020B	418780
310-278908-4	MW-4	Total/NA	Water	6020B	418780
310-278908-5	MW-5	Total/NA	Water	6020B	418780
310-278908-6	MW-6	Total/NA	Water	6020B	418780
310-278908-8	MW-8	Total/NA	Water	6020B	418780
310-278908-10	MW-10	Total/NA	Water	6020B	418780
310-278908-11	MW-11	Total/NA	Water	6020B	418780
310-278908-12	MW-12	Total/NA	Water	6020B	418780
310-278908-13	MW-13	Total/NA	Water	6020B	418780
310-278908-14	MW-14	Total/NA	Water	6020B	418780
310-278908-15	MW-15	Total/NA	Water	6020B	418780
310-278908-16	MW-16	Total/NA	Water	6020B	418780
310-278908-17	MW-17	Total/NA	Water	6020B	418780
310-278908-18	MW-18	Total/NA	Water	6020B	418780
310-278908-19	MW-D	Total/NA	Water	6020B	418780
MB 310-418780/1-A	Method Blank	Total/NA	Water	6020B	418780
LCS 310-418780/2-A	Lab Control Sample	Total/NA	Water	6020B	418780
310-278908-1 MS	MW-1	Total/NA	Water	6020B	418780
310-278908-1 MSD	MW-1	Total/NA	Water	6020B	418780
310-278908-11 DU	MW-11	Total/NA	Water	6020B	418780

Analysis Batch: 419651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-1	MW-1	Total/NA	Water	6020B	418780
310-278908-2	MW-2	Total/NA	Water	6020B	418780
310-278908-3	MW-3	Total/NA	Water	6020B	418780
310-278908-4	MW-4	Total/NA	Water	6020B	418780
310-278908-5	MW-5	Total/NA	Water	6020B	418780
310-278908-6	MW-6	Total/NA	Water	6020B	418780
310-278908-8	MW-8	Total/NA	Water	6020B	418780
310-278908-10	MW-10	Total/NA	Water	6020B	418780
310-278908-11	MW-11	Total/NA	Water	6020B	418780
310-278908-12	MW-12	Total/NA	Water	6020B	418780
310-278908-13	MW-13	Total/NA	Water	6020B	418780
310-278908-14	MW-14	Total/NA	Water	6020B	418780
310-278908-15	MW-15	Total/NA	Water	6020B	418780
310-278908-16	MW-16	Total/NA	Water	6020B	418780
310-278908-17	MW-17	Total/NA	Water	6020B	418780
310-278908-18	MW-18	Total/NA	Water	6020B	418780
310-278908-19	MW-D	Total/NA	Water	6020B	418780
310-278908-1 MS	MW-1	Total/NA	Water	6020B	418780
310-278908-1 MSD	MW-1	Total/NA	Water	6020B	418780
310-278908-11 DU	MW-11	Total/NA	Water	6020B	418780

Analysis Batch: 419808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-3	MW-3	Total/NA	Water	6020B	418780
310-278908-5	MW-5	Total/NA	Water	6020B	418780
310-278908-6	MW-6	Total/NA	Water	6020B	418780

Metals (Continued)

Analysis Batch: 419808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-7	MW-7	Total/NA	Water	6020B	418780
310-278908-9	MW-9	Total/NA	Water	6020B	418780
310-278908-11	MW-11	Total/NA	Water	6020B	418780
310-278908-15	MW-15	Total/NA	Water	6020B	418780
310-278908-20	Wet Well Leachate	Total/NA	Water	200.8	418779
310-278908-11 DU	MW-11	Total/NA	Water	6020B	418780

Analysis Batch: 419880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-7	MW-7	Total/NA	Water	6020B	418780
310-278908-9	MW-9	Total/NA	Water	6020B	418780

General Chemistry

Analysis Batch: 418663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	SM 5210B	
USB 310-418663/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 310-418663/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Prep Batch: 418693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	Distill/Phenol	
MB 310-418693/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 310-418693/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 418741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	SM 2540B	
MB 310-418741/1	Method Blank	Total/NA	Water	SM 2540B	
LCS 310-418741/2	Lab Control Sample	Total/NA	Water	SM 2540B	

Analysis Batch: 418767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-3	MW-3	Total/NA	Water	I-3765-85	
310-278908-4	MW-4	Total/NA	Water	I-3765-85	
310-278908-5	MW-5	Total/NA	Water	I-3765-85	
310-278908-6	MW-6	Total/NA	Water	I-3765-85	
310-278908-7	MW-7	Total/NA	Water	I-3765-85	
310-278908-8	MW-8	Total/NA	Water	I-3765-85	
310-278908-9	MW-9	Total/NA	Water	I-3765-85	
310-278908-10	MW-10	Total/NA	Water	I-3765-85	
MB 310-418767/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-418767/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 418790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	420.4	418693
MB 310-418693/1-A	Method Blank	Total/NA	Water	420.4	418693
LCS 310-418693/2-A	Lab Control Sample	Total/NA	Water	420.4	418693

General Chemistry

Prep Batch: 418800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	351.2	
MB 310-418800/1-A	Method Blank	Total/NA	Water	351.2	
LCS 310-418800/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 418861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	351.2	418800
MB 310-418800/1-A	Method Blank	Total/NA	Water	351.2	418800
LCS 310-418800/2-A	Lab Control Sample	Total/NA	Water	351.2	418800

Analysis Batch: 418893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-1	MW-1	Total/NA	Water	I-3765-85	
310-278908-2	MW-2	Total/NA	Water	I-3765-85	
310-278908-11	MW-11	Total/NA	Water	I-3765-85	
310-278908-12	MW-12	Total/NA	Water	I-3765-85	
310-278908-13	MW-13	Total/NA	Water	I-3765-85	
310-278908-14	MW-14	Total/NA	Water	I-3765-85	
310-278908-15	MW-15	Total/NA	Water	I-3765-85	
310-278908-16	MW-16	Total/NA	Water	I-3765-85	
310-278908-17	MW-17	Total/NA	Water	I-3765-85	
310-278908-18	MW-18	Total/NA	Water	I-3765-85	
310-278908-19	MW-D	Total/NA	Water	I-3765-85	
310-278908-20	Wet Well Leachate	Total/NA	Water	I-3765-85	
MB 310-418893/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-418893/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 418900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-1	MW-1	Total/NA	Water	350.1	
310-278908-2	MW-2	Total/NA	Water	350.1	
310-278908-3	MW-3	Total/NA	Water	350.1	
310-278908-4	MW-4	Total/NA	Water	350.1	
310-278908-5	MW-5	Total/NA	Water	350.1	
310-278908-6	MW-6	Total/NA	Water	350.1	
310-278908-7	MW-7	Total/NA	Water	350.1	
310-278908-8	MW-8	Total/NA	Water	350.1	
310-278908-9	MW-9	Total/NA	Water	350.1	
310-278908-10	MW-10	Total/NA	Water	350.1	
310-278908-11	MW-11	Total/NA	Water	350.1	
310-278908-12	MW-12	Total/NA	Water	350.1	
310-278908-13	MW-13	Total/NA	Water	350.1	
310-278908-14	MW-14	Total/NA	Water	350.1	
310-278908-15	MW-15	Total/NA	Water	350.1	
310-278908-16	MW-16	Total/NA	Water	350.1	
310-278908-17	MW-17	Total/NA	Water	350.1	
310-278908-18	MW-18	Total/NA	Water	350.1	
310-278908-19	MW-D	Total/NA	Water	350.1	
MB 310-418900/118	Method Blank	Total/NA	Water	350.1	
MB 310-418900/90	Method Blank	Total/NA	Water	350.1	
LCS 310-418900/119	Lab Control Sample	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 418900 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-418900/91	Lab Control Sample	Total/NA	Water	350.1	
310-278908-16 MS	MW-16	Total/NA	Water	350.1	
310-278908-16 MSD	MW-16	Total/NA	Water	350.1	

Prep Batch: 419112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	Distill/CN	
MB 310-419112/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 310-419112/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 419203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	335.4	419112
MB 310-419112/1-A	Method Blank	Total/NA	Water	335.4	419112
LCS 310-419112/2-A	Lab Control Sample	Total/NA	Water	335.4	419112

Analysis Batch: 419269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-1	MW-1	Total/NA	Water	5220D LL	
310-278908-2	MW-2	Total/NA	Water	5220D LL	
310-278908-3	MW-3	Total/NA	Water	5220D LL	
310-278908-4	MW-4	Total/NA	Water	5220D LL	
310-278908-5	MW-5	Total/NA	Water	5220D LL	
310-278908-6	MW-6	Total/NA	Water	5220D LL	
310-278908-7	MW-7	Total/NA	Water	5220D LL	
310-278908-8	MW-8	Total/NA	Water	5220D LL	
310-278908-9	MW-9	Total/NA	Water	5220D LL	
310-278908-10	MW-10	Total/NA	Water	5220D LL	
310-278908-11	MW-11	Total/NA	Water	5220D LL	
310-278908-12	MW-12	Total/NA	Water	5220D LL	
310-278908-13	MW-13	Total/NA	Water	5220D LL	
310-278908-14	MW-14	Total/NA	Water	5220D LL	
310-278908-15	MW-15	Total/NA	Water	5220D LL	
310-278908-16	MW-16	Total/NA	Water	5220D LL	
310-278908-17	MW-17	Total/NA	Water	5220D LL	
310-278908-18	MW-18	Total/NA	Water	5220D LL	
310-278908-19	MW-D	Total/NA	Water	5220D LL	
MB 310-419269/32	Method Blank	Total/NA	Water	5220D LL	
MB 310-419269/60	Method Blank	Total/NA	Water	5220D LL	
LCS 310-419269/33	Lab Control Sample	Total/NA	Water	5220D LL	
LCS 310-419269/63	Lab Control Sample	Total/NA	Water	5220D LL	
310-278908-2 MS	MW-2	Total/NA	Water	5220D LL	
310-278908-2 MSD	MW-2	Total/NA	Water	5220D LL	

Prep Batch: 419551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	Distill/Ammonia	
MB 310-419551/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 310-419551/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

QC Association Summary

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

General Chemistry

Analysis Batch: 419635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-278908-20	Wet Well Leachate	Total/NA	Water	350.1	419551
MB 310-419551/1-A	Method Blank	Total/NA	Water	350.1	419551
LCS 310-419551/2-A	Lab Control Sample	Total/NA	Water	350.1	419551

Lab Chronicle

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-1
Lab Sample ID: 310-278908-1
Date Collected: 04/10/24 15:12
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 18:54
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 00:21
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 16:32
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 17:45
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-2
Lab Sample ID: 310-278908-2
Date Collected: 04/10/24 14:44
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 19:31
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 00:52
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 16:43
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 17:48
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-3
Lab Sample ID: 310-278908-3
Date Collected: 04/09/24 18:05
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 20:07
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 00:55
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		4	419808	NFT2	EET CF	04/24/24 15:30
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		4	419651	NFT2	EET CF	04/23/24 16:45
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 17:48
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418767	ENB7	EET CF	04/15/24 13:50

Lab Chronicle

Client: SCS Engineers
Project/Site: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

Client Sample ID: MW-4

Date Collected: 04/09/24 18:33
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 20:19
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 00:59
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 16:47
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 17:50
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418767	ENB7	EET CF	04/15/24 13:50

Client Sample ID: MW-5

Date Collected: 04/09/24 17:30
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 20:31
Total/NA	Analysis	9056A		50	418881	QTZ5	EET CF	04/16/24 09:48
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:02
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		20	419808	NFT2	EET CF	04/24/24 15:34
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		20	419651	NFT2	EET CF	04/23/24 16:49
Total/NA	Analysis	350.1		37.5	418900	ZJX4	EET CF	04/16/24 18:49
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418767	ENB7	EET CF	04/15/24 13:50

Client Sample ID: MW-6

Date Collected: 04/09/24 16:50
Date Received: 04/12/24 16:00

Lab Sample ID: 310-278908-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 20:43
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:05
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		10	419808	NFT2	EET CF	04/24/24 15:37
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		10	419651	NFT2	EET CF	04/23/24 16:51
Total/NA	Analysis	350.1		37.5	418900	ZJX4	EET CF	04/16/24 18:49
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418767	ENB7	EET CF	04/15/24 13:50

Lab Chronicle

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-7
Lab Sample ID: 310-278908-7
Date Collected: 04/09/24 16:11
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 20:55
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		7	419808	NFT2	EET CF	04/24/24 15:41
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		10	419880	NFT2	EET CF	04/25/24 12:34
Total/NA	Analysis	350.1		100	418900	ZJX4	EET CF	04/16/24 20:44
Total/NA	Analysis	5220D LL		5	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418767	ENB7	EET CF	04/15/24 13:50

Client Sample ID: MW-8
Lab Sample ID: 310-278908-8
Date Collected: 04/09/24 15:34
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 21:07
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:12
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 17:05
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 17:52
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418767	ENB7	EET CF	04/15/24 13:50

Client Sample ID: MW-9
Lab Sample ID: 310-278908-9
Date Collected: 04/09/24 15:01
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 21:19
Total/NA	Analysis	9056A		50	418881	QTZ5	EET CF	04/16/24 10:00
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		4	419808	NFT2	EET CF	04/24/24 15:44
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		4	419880	NFT2	EET CF	04/25/24 12:36
Total/NA	Analysis	350.1		93.8	418900	ZJX4	EET CF	04/16/24 18:28
Total/NA	Analysis	5220D LL		5	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418767	ENB7	EET CF	04/15/24 13:50

Client Sample ID: MW-10
Lab Sample ID: 310-278908-10
Date Collected: 04/09/24 14:17
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 21:31

Lab Chronicle

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-10
Lab Sample ID: 310-278908-10
Date Collected: 04/09/24 14:17
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:33
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 17:09
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 17:54
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418767	ENB7	EET CF	04/15/24 13:50

Client Sample ID: MW-11
Lab Sample ID: 310-278908-11
Date Collected: 04/10/24 11:07
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 21:43
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:36
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		4	419808	NFT2	EET CF	04/24/24 15:48
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		4	419651	NFT2	EET CF	04/23/24 17:11
Total/NA	Analysis	350.1		9.38	418900	ZJX4	EET CF	04/16/24 18:28
Total/NA	Analysis	5220D LL		5	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-12
Lab Sample ID: 310-278908-12
Date Collected: 04/10/24 10:41
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 21:56
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:43
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 17:15
Total/NA	Analysis	350.1		9.38	418900	ZJX4	EET CF	04/16/24 18:30
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-13
Lab Sample ID: 310-278908-13
Date Collected: 04/10/24 10:04
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 22:32

Lab Chronicle

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-13
Lab Sample ID: 310-278908-13
Date Collected: 04/10/24 10:04
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:46
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 17:18
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 17:58
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-14
Lab Sample ID: 310-278908-14
Date Collected: 04/10/24 11:41
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 22:44
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:50
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 17:20
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 17:59
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-15
Lab Sample ID: 310-278908-15
Date Collected: 04/10/24 12:08
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 22:56
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:53
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		4	419808	NFT2	EET CF	04/24/24 15:55
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		4	419651	NFT2	EET CF	04/23/24 17:22
Total/NA	Analysis	350.1		9.38	418900	ZJX4	EET CF	04/16/24 18:30
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-16
Lab Sample ID: 310-278908-16
Date Collected: 04/10/24 12:55
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		55	418881	QTZ5	EET CF	04/15/24 23:08

Lab Chronicle

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-16
Lab Sample ID: 310-278908-16
Date Collected: 04/10/24 12:55
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 01:57
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 17:33
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 18:02
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-17
Lab Sample ID: 310-278908-17
Date Collected: 04/10/24 13:26
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 23:20
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 02:00
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 17:35
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 18:04
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-18
Lab Sample ID: 310-278908-18
Date Collected: 04/10/24 13:43
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 23:32
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 02:03
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 17:37
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 18:07
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: MW-D
Lab Sample ID: 310-278908-19
Date Collected: 04/10/24 12:55
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	418881	QTZ5	EET CF	04/15/24 23:44
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419537	A6US	EET CF	04/23/24 02:21

Lab Chronicle

Client: SCS Engineers
Job ID: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Client Sample ID: MW-D
Lab Sample ID: 310-278908-19
Date Collected: 04/10/24 12:55
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			418780	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	6020B		1	419651	NFT2	EET CF	04/23/24 17:39
Total/NA	Analysis	350.1		1	418900	ZJX4	EET CF	04/16/24 18:07
Total/NA	Analysis	5220D LL		1	419269	D7CP	EET CF	04/19/24 12:00
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47

Client Sample ID: Wet Well Leachate
Lab Sample ID: 310-278908-20
Date Collected: 04/10/24 16:00
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	419585	FE5V	EET CF	04/23/24 19:35
Total/NA	Prep	3510C			419017	JT8P	EET CF	04/17/24 14:19
Total/NA	Analysis	8270E		1	419071	L0FS	EET CF	04/18/24 17:56
Total/NA	Analysis	300.0		5	418881	QTZ5	EET CF	04/16/24 10:13
Total/NA	Analysis	300.0		50	418881	QTZ5	EET CF	04/16/24 11:20
Total/NA	Analysis	300.0		1	419008	QTZ5	EET CF	04/16/24 18:15
Total/NA	Prep	200.8			418779	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	200.8		7	419808	NFT2	EET CF	04/24/24 15:23
Total/NA	Prep	200.8			418779	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	200.8		1	419401	DHM5	EET CF	04/19/24 13:43
Total/NA	Prep	200.8			418779	QTZ5	EET CF	04/16/24 09:00
Total/NA	Analysis	200.8		7	419536	NFT2	EET CF	04/22/24 15:14
Total/NA	Prep	Distill/CN			419112	WZC8	EET CF	04/18/24 09:38
Total/NA	Analysis	335.4		1	419203	ZJX4	EET CF	04/18/24 17:55
Total/NA	Prep	Distill/Ammonia			419551	MQ8M	EET CF	04/23/24 09:31
Total/NA	Analysis	350.1		9.38	419635	ZJX4	EET CF	04/23/24 21:40
Total/NA	Prep	351.2			418800	W9YR	EET CF	04/16/24 05:01
Total/NA	Analysis	351.2		10	418861	ENB7	EET CF	04/16/24 10:28
Total/NA	Prep	Distill/Phenol			418693	ENB7	EET CF	04/15/24 08:31
Total/NA	Analysis	420.4		1	418790	ZJX4	EET CF	04/15/24 16:24
Total/NA	Analysis	I-3765-85		1	418893	A4XP	EET CF	04/16/24 15:47
Total/NA	Analysis	SM 2540B		1	418741	HE7K	EET CF	04/15/24 11:24
Total/NA	Analysis	SM 5210B		1	418663	A3GU	EET CF	04/13/24 10:23

Client Sample ID: Trip Blank
Lab Sample ID: 310-278908-21
Date Collected: 04/10/24 00:00
Matrix: Water
Date Received: 04/12/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	419585	FE5V	EET CF	04/23/24 14:19

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: 310-278908-1
Project/Site: ADM Landfill Sampling Spring 2024

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,2,3-Trichlorobenzene
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	Bromobenzene
8260D		Water	Hexane
8260D		Water	p-Isopropyltoluene
8260D		Water	sec-Butylbenzene
8260D		Water	tert-Butylbenzene
8270E	3510C	Water	Benzoic acid
8270E	3510C	Water	Pyridine
8270E	3510C	Water	Total Cresols

Method Summary

Client: SCS Engineers
Project/Site: ADM Landfill Sampling Spring 2024

Job ID: 310-278908-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
300.0	Anions, Ion Chromatography	EPA	EET CF
9056A	Anions, Ion Chromatography	SW846	EET CF
200.8	Metals (ICP/MS)	EPA	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
335.4	Cyanide, Total	EPA	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
420.4	Phenolics, Total Recoverable	EPA	EET CF
5220D LL	COD	SM	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2540B	Solids, Total	SM	EET CF
SM 5210B	BOD, 5-Day	SM	EET CF
200.8	Preparation, Total Metals	EPA	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF
Distill/CN	Distillation, Cyanide	None	EET CF
Distill/Phenol	Distillation, Phenolics	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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310-278908 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: SCS			
City/State: CITY West Des Moines	STATE IA	Project:	
Receipt Information			
Date/Time Received: DATE 4/12/24	TIME 1600	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 # 1 of 3
Cooler Custody Seals Present?	☐ Yes ☑ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes ☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☑ Yes ☐ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 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): 0.9	Corrected Temp (°C): 0.9

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:	250 ml pl	
Uncorrected Temp (°C):	0.4 ↓	0.9 ↓
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 West Des Moines STATE IA | Project:

Receipt Information

Date/Time Received: DATE 4/12/24 TIME 1600 | Received By: BB

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 3
Cooler Custody Seals Present?	☐ Yes	☑ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☑ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 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): 0.3 | Corrected Temp (°C): 0.3

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY West Des Moines STATE IA Project:

Receipt Information

Date/Time Received: DATE 4/12/24 TIME 1600 Received By: BB

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID.

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 3 of 3

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☑ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 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): 0.8 Corrected Temp (°C): 0.8

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica Des Moines SC
214

Chain of Custody Record

eurofins

Eurofins TestAmerica Cedar Falls
3019 Venture Way

Cedar Falls IA 50613-6907
phone 319 277 2401 fax 319.277.2425

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☑ Other: Leachate

TestAmerica Laboratories Inc d/b/a Eurofins TestAmerica

Client Contact	Project Manager:	Site Contact:	Date	COC No
Kevin Jensen SCS Engineers	Email:	Lab Contact:	Carrier:	2 of 2 COCs
1690 All-State Court Suite 100	Cell			Sampler
West Des Moines Iowa 50265	Analysis Turnaround Time			For Lab Use Only
515-631-6154	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
kjensen@scsengineers.com	Other:			Lab Sampling
Project Name: ADM Landfill Sampling Spring 2024	☐ 2 weeks			
Site: ADM Landfill	☐ 1 week			Job / SDG No
P O #	☐ 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)	Ammonia-Nitrogen	Total Kjeldahl Nitrogen	Total Phenols	Total Suspended Solids	Total Solids	CBOD	Nitrate	Chloride	Sulfate	Total Cyanide	EPA 8270D (SVOC's)	EPA 8260C (VOCs)	Total Metals See Below (1)	Sample Specific Notes
Wet Well Leachate	4-10	1600	G	H_2O				X	X	X	X	X	X	X	X	X	X	X	X	X	

Preservation Used. 1= Ice 2= HCl, 3= H_2SO_4, 4=HNO_3 5=NaOH 6= Other _____

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments

(1) Total Metals Aluminum Arsenic. Boron, Cadmium. Cobalt. Copper Iron Lead Magnesium, Manganese. Nickel Potassium. Zinc

Iced

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Konner Roth	Company: SCS	Date/Time: 4/12-12:00	Received by:	Company: Eurofins	Date/Time: 4/12/24 12:00
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No CA-C-WI-002. Rev 4.23 dated 4/16/2019

Eurofins TestAmerica Cedar Falls
3019 V nture Way

Cedar Falls IA 50613-6907
phone 319 27‾.2401 fax 319 277.2425

TestAmer ca Des Moines SC
2 4

Chain of Custody Record

eurofins

TestAmerica Laboratories Inc d/b/a Eurofins TestAmerica

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☑ Other: Groundwater

Client Contact	Project Manager:	Site Contact:	Date	COC No
Kevin Jensen SCS Eng neers	Email	Lab Contact:	Carrier:	1 of 2 COCs
1690 All-State Court Su te 100	Cell:			Sampler
West Des Mo nes Iowa 50265	Analysis Turnaround Time			For Lab Use Only
515-631-6154	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
[illegible]	Other: ☐ 2 weeks ☐ 1 eek ☐ 2 days ☐ 1 day			Lab Sampling
Project Name ADM Landfill Sampling Spring 2024				Job / SDG No
Site ADM Landfill				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Total Arsenic	Total Boron	Total Cobalt	Total Magnesium	Total Nickel	Sulfate	Total Suspended Solids	Total Iron	Chloride	Ammonia-Nitrogen	Chemical Oxygen Demand		Sample Specific Notes
MW 1	4-10-24	1512	G	H2O				X	X	X	X	X	X	X	X	X	X	X	X	
MW .	4-10	1444	G					X	X	X	X	X		X	X	X	X	X	X	
MW 3	4-9	1805	G					X	X	X	X	X		X	X	X	X	X	X	
MW-4	4-9	1833	G					X	X	X				X	X	X	X	X	X	
MW 5	4-9	1730	G					X	X	X	X	X		X	X	X	X	X	X	
MW-6	4-9	1650	G					X	X	X	X	X	X	X	X	X	X	X	X	
MW 7	4-9	1611	G					X	X	X	X	X		X	X	X	X	X	X	
MW-8	4-9	1534	G					X	X	X				X	X	X	X	X	X	
MW-9	4-9	1501	G					X	X	X	X	X		X	X	X	X	X	X	
MW 10	4-9	1417	G					X	X	X	X	X		X	X	X	X	X	X	
MW 11	4-10	1107	G					X	X	X	X	X		X	X	X	X	X	X	
MW 1	4-10	1041	G					X	X	X	X	X		X	X	X	X	X	X	
MW 13	4-10	1004	G					X	X	X	X	X		X	X	X	X	X	X	
MW 14	4-10	1141	G					X	X	X	X	X		X	X	X	X	X	X	
MW 15	4-10	1208	G					X	X	X	X			X	X	X	X	X	X	
MW 16	4-10	1255	G					X	X	X				X	X	X	X	X	X	
MW 17	4-10	1326	G					X	X	X	X	X	X	X	X	X	X	X	X	
MW 18	4-10	1343	G					X	X	X	X	X		X	X	X	X	X	X	
MW D	4-10	1255	G					X	X	X				X	X	X	X	X	X	

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 Iced

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd ___ Corr'd ___		Therm ID No ___
Relinquished by: Konner Roth	Company: SCS	Date/Time: 4/12-1cle	Received by: [illegible signature]	Company: Eurofins	Date/Time: 4/12/24 12:00
Relinquished by:	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No CA-C-WI-002, Rev 4.23 dated 4/16/2019

eurofins | Environment Testing America

310-278908 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY West Des Moines STATE IA Project:

Receipt Information

Date/Time Received: DATE 4/12/24 TIME 1600 Received By: BB

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 1 of 3

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☑ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 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): 0.9 Corrected Temp (°C): 0.9

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:	250 ml pl	
Uncorrected Temp (°C):	0.4	0.9
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 West Des Moines STATE IA Project:

Receipt Information

Date/Time Received: DATE 4/12/24 TIME 1600 Received By: BB

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 3

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☑ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 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): 0.3 Corrected Temp (°C): 0.3

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY West Des Moines STATE IA Project:

Receipt Information

Date/Time Received: DATE 4/12/24 TIME 1600 Received By: BB

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 3 of 3

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☑ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 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): 0.8 Corrected Temp (°C): 0.8

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

Tes America Des Moines SC
214

Eurofins TestAmerica Cedar Falls
3019 Venture Way

Cedar Falls IA 50613-6907
phone 319 277 2401 fax 319 277 2425

Chain of Custody Record

eurofins

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☑ Other: Leachate

TestAmerica Laboratories Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager	Site Contact:	Date	COC No
Kevin Jensen SCS Engineers	Email	Lab Contact:	Carrier:	2 of 2 COCs
1690 All-State Court Suite 100	Cell			Sampler
West Des Moines Iowa 50265	Analysis Turnaround Time			For Lab Use Only
515-631-6154	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
[redacted]	Other:			Lab Sampling
Project Name ADM Landfill Sampling Spring 2024	☐ 2 weeks			
Site ADM Landfill	☐ 1 week			Job / SDG No
P O #	☐ 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)	Ammonia-Nitrogen	Total Kjeldahl Nitrogen	Total Phenols	Total Suspended Solids	Total Solids	CBOD	Nitrate	Chloride	Sulfate	Total Cyanide	EPA 8270D (SVOC's)	EPA 8260C (VOCs)	Total Metals See Below (1)	Sample Specific Notes
Wet Well Leachate	4-10	1600	G	H_2O				X	X	X	X	X	X	X	X	X	X	X	X	X	

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

(1) Total Metals Aluminum Arsenic Boron Cadmium Cobalt Copper Iron Lead Magnesium Manganese, Nickel Potassium. Zinc

Iced

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Konner Roth	Company: SCS	Date/Time: 4/12-12[illegible]	Received by: [signature]	Company: Eurofins	Date/Time: 4/12/24 12:00
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No CA-C-WI-002, Rev 4.23 dated 4/16/2019

Eurofins TestAmerica Cedar Falls
3019 Venture Way

Cedar Falls IA 50613-6907
phone 319 277 2401 fax 319 277 2425

TestAmerica Des Moines SC
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Chain of Custody Record

eurofins

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☑ Other: Groundwater

TestAmerica Laboratories Inc d/b/a Eurofins TestAmerica

Client Contact	Project Manager:	Site Contact:	Date	COC No
Kevin Jensen SCS Engineers	Email:	Lab Contact:	Carrier:	1 of 2 COCs
1690 All-State Court Suite 100	Cell:	Analysis Turnaround Time		Sampler
West De Moines Iowa 50265		☐ CALENDAR DAYS ☐ WORKING DAYS		For Lab Use Only
515-631-6154		Other:		Walk n Client
[redacted]		☐ 2 weeks		Lab Sampling
Project Name: ADM Landfill Sampling Spring 2024		☐ 1 week		
Site: ADM Landfill		☐ days		Job / SDG No
P O #		☐ 1 day		

Sample Identification	Sample Date	Sample Time	Sample Type C=Comp G=Grab	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Total Arsenic	Total Boron	Total Cobalt	Total Magnesium	Total Nickel	Sulfate	Total Suspended Solids	Total Iron	Chloride	Ammonia-Nitrogen	Chemical Oxygen Demand	Sample Specific Notes
MW 1	4-10-24	1512	G	H_2O				x	x	x	x	x	x	x	x	x	x	x	
MW	4-10	1444	G					x	x	x	x	x		x	x	x	x	x	
MW 3	4-9	1805	G					x	x	x	x	x		x	x	x	x	x	
MW-4	4-9	1833	G					x	x	x				x	x	x	x	x	
MW 5	4-9	1730	G					x	x	x	x	x		x	x	x	x	x	
MW-6	4-9	1650	G					x	x	x	x	x	x	x	x	x	x	x	
MW 7	4-9	1611	G					x	x	x	x	x		x	x	x	x	x	
MW-8	4-9	1534	G					x	x	x				x	x	x	x	x	
MW 9	4-9	1501	G					x	x	x	x	x		x	x	x	x	x	
MW 10	4-9	1417	G					x	x	x	x	x		x	x	x	x	x	
MW 11	4-10	1107	G					x	x	x	x	x		x	x	x	x	x	
MW 1	4-10	1041	G					x	x	x	x	x		x	x	x	x	x	
MW 1	4-10	1004	G					x	x	x	x	x		x	x	x	x	x	
MW 14	4-10	1141	G					x	x	x	x	x		x	x	x	x	x	
MW 15	4-10	1208	G					x	x	x	x			x	x	x	x	x	
MW 16	4-10	1255	G					x	x	x				x	x	x	x	x	
MW 17	4-10	1326	G					x	x	x	x	x	x	x	x	x	x	x	
MW 18	4-10	1343	G					x	x	x	x	x		x	x	x	x	x	
MW D	4-10	1255	G					x	x	x				x	x	x	x	x	

Preservation Used: 1= Ice, 2= HCl, 3= H_2SO_4, 4=HNO_3, 5=NaOH, 6= Other _____

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comment 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 Iced

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Konner Roth	Company: SCS	Date/Time: 4/12-1600	Received by:	Company: Eurofins	Date/Time: 4/17/24 12:00
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No CA-C-WI-002, Rev 4.23 dated 4/16/2019

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-278908-1

Login Number: 278908
List Number: 1
Creator: Bennett, Samantha

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/27/2024 2:39:51 PM Revision 1

JOB DESCRIPTION

Archer Daniels Midland Landfill

JOB NUMBER

310-286332-1

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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Revision 1

Authorized for release by
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Job Narrative
310-286332-1

REVISION

The report being provided is a revision of the original report sent on 8/5/2024. The report (revision 1) is being revised due to Client requested only Bis[2-ethylhexyl]phthalate for samples MW-7 and MW09.

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 7/19/2024 5:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.4°C, 1.4°C, 3.8°C and 5.0°C.

GC/MS VOA
Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-9 (310-286332-8).

Method 8260D: The method blank for analytical batch 310-428392 contained Hexane above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-analysis of samples was not performed.

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

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) associated with batch 310-428188 recovered above the upper control limit for 3-Nitroaniline (21.1%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E_SIM: Internal standard (ISTD) response for the following samples were outside of acceptance limits: MW-9 (310-286332-8) and MW-11 (310-286332-10). The ISTD failed low causing the data to be biased high. The affected analytes were non-detects therefore the data has been reported.

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

HPLC/IC
Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW-3 (310-286332-5), MW-7 (310-286332-7), MW-11 (310-286332-10) and MW-13 (310-286332-12). Elevated reporting limits (RLs) are provided.

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

Metals
Method 6020B: The reference method requires samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of >2: MW-5 (310-286332-6), MW-7 (310-286332-7), MW-9 (310-286332-8) and MW-13 (310-286332-12). The sample(s) was preserved to the appropriate pH in the laboratory.

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: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-286332-1	MW-1	Water	07/17/24 15:02	07/19/24 17:30
310-286332-2	MW-6	Water	07/18/24 09:14	07/19/24 17:30
310-286332-3	MW-17	Water	07/17/24 13:16	07/19/24 17:30
310-286332-4	MW-2	Water	07/17/24 15:54	07/19/24 17:30
310-286332-5	MW-3	Water	07/16/24 14:25	07/19/24 17:30
310-286332-6	MW-5	Water	07/16/24 16:17	07/19/24 17:30
310-286332-7	MW-7	Water	07/16/24 17:23	07/19/24 17:30
310-286332-8	MW-9	Water	07/17/24 19:01	07/19/24 17:30
310-286332-9	MW-10	Water	07/17/24 18:03	07/19/24 17:30
310-286332-10	MW-11	Water	07/17/24 11:52	07/19/24 17:30
310-286332-11	MW-12	Water	07/17/24 10:51	07/19/24 17:30
310-286332-12	MW-13	Water	07/17/24 16:58	07/19/24 17:30
310-286332-13	MW-14	Water	07/17/24 09:51	07/19/24 17:30
310-286332-14	MW-18	Water	07/17/24 14:11	07/19/24 17:30
310-286332-15	MW-4	Water	07/16/24 15:26	07/19/24 17:30
310-286332-16	MW-8	Water	07/16/24 18:24	07/19/24 17:30
310-286332-17	MW-16	Water	07/17/24 12:33	07/19/24 17:30
310-286332-18	MW-D	Water	07/16/24 15:26	07/19/24 17:30
310-286332-19	MW-15	Water	07/17/24 09:13	07/19/24 17:30
310-286332-26	Trip Blank 1	Water	07/17/24 00:00	07/19/24 17:30
310-286332-28	Trip Blank 3	Water	07/17/24 00:00	07/19/24 17:30

Detection Summary

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-1 — Lab Sample ID: 310-286332-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	183		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	33.0		10.0	4.20	mg/L	10		9056A	Total/NA
Boron	0.0859	J	0.100	0.0760	mg/L	1		6020B	Total/NA
Magnesium	50.1	B	0.500	0.150	mg/L	1		6020B	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 310-286332-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	385		20.0	9.00	mg/L	20		9056A	Total/NA
Sulfate	293		20.0	8.40	mg/L	20		9056A	Total/NA
Arsenic	0.0238		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	10.0		0.400	0.304	mg/L	4		6020B	Total/NA
Cobalt	0.00143		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	11.3		0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	159		2.00	0.600	mg/L	4		6020B	Total/NA
Manganese	0.244		0.0100	0.00360	mg/L	1		6020B	Total/NA
Nickel	0.0180	J	0.0200	0.00840	mg/L	4		6020B	Total/NA
Ammonia	167		7.50	3.75	mg/L	37.5		350.1	Total/NA
Chemical Oxygen Demand	46.9		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	210		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 310-286332-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	71.6		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	51.0		10.0	4.20	mg/L	10		9056A	Total/NA
Boron	1.55		0.100	0.0760	mg/L	1		6020B	Total/NA
Magnesium	29.0	B	0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	0.109		0.0100	0.00360	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	8.06		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	1.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 310-286332-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30.1		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	22.9		10.0	4.20	mg/L	10		9056A	Total/NA
Boron	0.251		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.000434	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	0.0789	J	0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	27.2	B	0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	1.20		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	1.95		0.200	0.100	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	10.5		5.00	4.80	mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 310-286332-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	298		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.0272		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	3.81		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.000835		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	42.7		0.100	0.0360	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-3 (Continued) — Lab Sample ID: 310-286332-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	84.9	B	0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	5.69		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	3.08		0.200	0.100	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	43.8		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	87.3		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 310-286332-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	192		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	840		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.0510		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	22.4		0.700	0.532	mg/L	7		6020B	Total/NA
Cobalt	0.0130		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	39.9		0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	514		3.50	1.05	mg/L	7		6020B	Total/NA
Manganese	2.20		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	125		7.50	3.75	mg/L	37.5		350.1	Total/NA
Chemical Oxygen Demand	217		50.0	48.0	mg/L	10		5220D LL	Total/NA
Total Suspended Solids	104		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 310-286332-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	195		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.0297		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	31.6		1.00	0.760	mg/L	10		6020B	Total/NA
Cobalt	0.00420		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	11.1		0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	240		5.00	1.50	mg/L	10		6020B	Total/NA
Manganese	0.709		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	572		20.0	10.0	mg/L	100		350.1	Total/NA
Chemical Oxygen Demand	305		50.0	48.0	mg/L	10		5220D LL	Total/NA
Total Suspended Solids	45.3		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 310-286332-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.95		0.500	0.220	ug/L	1		8260D	Total/NA
Carbon disulfide	1.10		1.00	0.450	ug/L	1		8260D	Total/NA
Toluene	6.36		1.00	0.430	ug/L	1		8260D	Total/NA
Chloride	38.9		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	354		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.0485		0.0140	0.00371	mg/L	7		6020B	Total/NA
Boron	12.9		0.400	0.304	mg/L	4		6020B	Total/NA
Cobalt	0.00349	J	0.00350	0.00119	mg/L	7		6020B	Total/NA
Iron	0.0497	J	0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	251	B	3.50	1.05	mg/L	7		6020B	Total/NA
Manganese	1.13		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	389		20.0	10.0	mg/L	100		350.1	Total/NA
Chemical Oxygen Demand	280		50.0	48.0	mg/L	10		5220D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-10 — Lab Sample ID: 310-286332-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	76.3		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	94.0		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.000736	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	1.67		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.00104		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	1.40		0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	67.6	B	0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	0.279		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	9.38		0.200	0.100	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	18.2		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	715		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 310-286332-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.50	J	10.0	3.10	ug/L	1		8260D	Total/NA
Acenaphthene	0.149	J	0.200	0.0490	ug/L	1		8270E SIM	Total/NA
Fluorene	0.0781	J	0.200	0.0430	ug/L	1		8270E SIM	Total/NA
Chloride	293		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.0575		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	1.74		0.400	0.304	mg/L	4		6020B	Total/NA
Cobalt	0.0100		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	63.6		0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	95.4		2.00	0.600	mg/L	4		6020B	Total/NA
Manganese	1.30		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	26.1		1.88	0.938	mg/L	9.38		350.1	Total/NA
Chemical Oxygen Demand	122		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	138		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 310-286332-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	298		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	23.2		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.0704		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	2.41		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.00175		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	25.0		0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	77.8	B	0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	0.930		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	17.7		1.88	0.938	mg/L	9.38		350.1	Total/NA
Chemical Oxygen Demand	28.7		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	52.5		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 310-286332-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	64.6		10.0	4.50	mg/L	10		9056A	Total/NA
Arsenic	0.0952		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	9.79		0.400	0.304	mg/L	4		6020B	Total/NA
Cobalt	0.00239		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	29.2		0.100	0.0360	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-13 (Continued) — Lab Sample ID: 310-286332-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	263		2.00	0.600	mg/L	4		6020B	Total/NA
Manganese	1.71		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	59.3		1.88	0.938	mg/L	9.38		350.1	Total/NA
Chemical Oxygen Demand	114		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	79.3		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 310-286332-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	357		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	206		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.000948	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	1.54		0.400	0.304	mg/L	4		6020B	Total/NA
Cobalt	0.00107		0.000500	0.000170	mg/L	1		6020B	Total/NA
Magnesium	102		2.00	0.600	mg/L	4		6020B	Total/NA
Manganese	1.14		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	11.5		1.88	0.938	mg/L	9.38		350.1	Total/NA
Chemical Oxygen Demand	22.8		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	15.0		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 310-286332-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	39.2		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	60.7		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.00503		0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	0.383		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.00267		0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	2.02		0.100	0.0360	mg/L	1		6020B	Total/NA
Magnesium	33.9	B	0.500	0.150	mg/L	1		6020B	Total/NA
Manganese	0.274		0.0100	0.00360	mg/L	1		6020B	Total/NA
Ammonia	2.63		0.200	0.100	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	29.1		5.00	4.80	mg/L	1		5220D LL	Total/NA
Total Suspended Solids	10.3		2.50	1.85	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 310-286332-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	177		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	49.6		10.0	4.20	mg/L	10		9056A	Total/NA
Boron	0.342		0.100	0.0760	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	8.41		5.00	4.80	mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 310-286332-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	146		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	47.5		10.0	4.20	mg/L	10		9056A	Total/NA
Boron	0.358		0.100	0.0760	mg/L	1		6020B	Total/NA
Cobalt	0.000225	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	6.31		5.00	4.80	mg/L	1		5220D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-16 — Lab Sample ID: 310-286332-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	68.3		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	49.5		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.000670	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Boron	0.264		0.100	0.0760	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	12.6		5.00	4.80	mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-D — Lab Sample ID: 310-286332-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	180		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	48.0		10.0	4.20	mg/L	10		9056A	Total/NA
Boron	0.320		0.100	0.0760	mg/L	1		6020B	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 310-286332-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	90.1		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	86.1		5.00	2.10	mg/L	5		9056A	Total/NA
Boron	0.215		0.100	0.0760	mg/L	1		6020B	Total/NA
Magnesium	51.7	B	0.500	0.150	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	11.6		5.00	4.80	mg/L	1		5220D LL	Total/NA

Client Sample ID: Trip Blank 1 — Lab Sample ID: 310-286332-26

No Detections.

Client Sample ID: Trip Blank 3 — Lab Sample ID: 310-286332-28

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-1

Date Collected: 07/17/24 15:02
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-1

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**183**		10.0	4.50	mg/L			08/01/24 18:55	10
Sulfate	**33.0**		10.0	4.20	mg/L			08/01/24 18:55	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 12:57	1
Boron	**0.0859**	**J**	0.100	0.0760	mg/L		07/24/24 09:30	07/25/24 12:57	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 12:57	1
Iron	<0.100		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 12:57	1
Magnesium	**50.1**	**B**	0.500	0.150	mg/L		07/24/24 09:30	07/25/24 12:57	1
Manganese	<0.0100		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 12:57	1
Nickel	<0.00500		0.00500	0.00210	mg/L		07/24/24 09:30	07/26/24 20:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200	F1	0.200	0.100	mg/L			07/31/24 17:02	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/23/24 08:42	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-6

Date Collected: 07/18/24 09:14
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-2

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		20.0	9.00	mg/L			08/01/24 19:38	20
Sulfate	293		20.0	8.40	mg/L			08/01/24 19:38	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0238		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:08	1
Boron	10.0		0.400	0.304	mg/L		07/24/24 09:30	07/26/24 20:24	4
Cobalt	0.00143		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:08	1
Iron	11.3		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:08	1
Magnesium	159		2.00	0.600	mg/L		07/24/24 09:30	07/26/24 20:24	4
Manganese	0.244		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:08	1
Nickel	0.0180	J	0.0200	0.00840	mg/L		07/24/24 09:30	07/26/24 20:24	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	167		7.50	3.75	mg/L			07/31/24 18:02	37.5
Chemical Oxygen Demand (SM 5220D LL)	46.9		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	210		7.50	5.55	mg/L			07/23/24 16:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-17

Date Collected: 07/17/24 13:16
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-3

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.6**		10.0	4.50	mg/L			08/01/24 19:52	10
Sulfate	**51.0**		10.0	4.20	mg/L			08/01/24 19:52	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:10	1
Boron	**1.55**		0.100	0.0760	mg/L		07/24/24 09:30	07/25/24 13:10	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:10	1
Iron	<0.100		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:10	1
Magnesium	**29.0**	**B**	0.500	0.150	mg/L		07/24/24 09:30	07/25/24 13:10	1
Manganese	**0.109**		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:10	1
Nickel	<0.00500		0.00500	0.00210	mg/L		07/24/24 09:30	07/26/24 20:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			07/31/24 17:04	1
Chemical Oxygen Demand (SM 5220D LL)	**8.06**		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	**1.88**		1.88	1.39	mg/L			07/23/24 11:38	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-2

Date Collected: 07/17/24 15:54
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-4

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.1**		10.0	4.50	mg/L			08/01/24 20:06	10
Sulfate	**22.9**		10.0	4.20	mg/L			08/01/24 20:06	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:21	1
Boron	**0.251**		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 20:31	1
Cobalt	**0.000434**	**J**	0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:21	1
Iron	**0.0789**	**J**	0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:21	1
Magnesium	**27.2**	**B**	0.500	0.150	mg/L		07/24/24 09:30	07/25/24 13:21	1
Manganese	**1.20**		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**1.95**		0.200	0.100	mg/L			07/31/24 17:05	1
Chemical Oxygen Demand (SM 5220D LL)	**10.5**		5.00	4.80	mg/L			07/25/24 09:46	1
Phenols, Total (SW846 9066)	<0.0200		0.0200	0.0100	mg/L		07/24/24 08:44	07/24/24 17:33	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/23/24 11:38	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-3

Date Collected: 07/16/24 14:25
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-5

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**298**		5.00	2.25	mg/L			08/01/24 20:20	5
Sulfate	<5.00		5.00	2.10	mg/L			08/01/24 20:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0272**		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:24	1
Boron	**3.81**		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 20:35	1
Cobalt	**0.000835**		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:24	1
Iron	**42.7**		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:24	1
Magnesium	**84.9**	**B**	0.500	0.150	mg/L		07/24/24 09:30	07/25/24 13:24	1
Manganese	**5.69**		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**3.08**		0.200	0.100	mg/L			07/31/24 17:06	1
Chemical Oxygen Demand (SM 5220D LL)	**43.8**		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	**87.3**		5.00	3.70	mg/L			07/22/24 16:45	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-5

Date Collected: 07/16/24 16:17
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-6

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		10.0	4.50	mg/L			08/01/24 20:34	10
Sulfate	840		10.0	4.20	mg/L			08/01/24 20:34	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0510		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:26	1
Boron	22.4		0.700	0.532	mg/L		07/24/24 09:30	07/26/24 20:38	7
Cobalt	0.0130		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:26	1
Iron	39.9		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:26	1
Magnesium	514		3.50	1.05	mg/L		07/24/24 09:30	07/26/24 20:38	7
Manganese	2.20		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	125		7.50	3.75	mg/L			07/31/24 18:02	37.5
Chemical Oxygen Demand (SM 5220D LL)	217		50.0	48.0	mg/L			07/25/24 09:46	10
Total Suspended Solids (USGS I-3765-85)	104		5.00	3.70	mg/L			07/22/24 16:45	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-7

Date Collected: 07/16/24 17:23
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<10.4		10.4	5.73	ug/L		07/23/24 12:44	07/24/24 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*100*		*45 - 129*	*07/23/24 12:44*	*07/24/24 18:46*	*1*
2-Fluorobiphenyl (Surr)	*77*		*39 - 118*	*07/23/24 12:44*	*07/24/24 18:46*	*1*
Terphenyl-d14 (Surr)	*69*		*12 - 144*	*07/23/24 12:44*	*07/24/24 18:46*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**195**		5.00	2.25	mg/L			08/01/24 20:48	5
Sulfate	<5.00		5.00	2.10	mg/L			08/01/24 20:48	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0297**		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:28	1
Boron	**31.6**		1.00	0.760	mg/L		07/24/24 09:30	07/26/24 20:42	10
Cobalt	**0.00420**		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:28	1
Iron	**11.1**		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:28	1
Magnesium	**240**		5.00	1.50	mg/L		07/24/24 09:30	07/26/24 20:42	10
Manganese	**0.709**		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**572**		20.0	10.0	mg/L			07/31/24 18:50	100
Chemical Oxygen Demand (SM 5220D LL)	**305**		50.0	48.0	mg/L			07/25/24 09:46	10
Phenols, Total (SW846 9066)	<0.0200		0.0200	0.0100	mg/L		07/24/24 08:44	07/24/24 17:33	1
Total Suspended Solids (USGS I-3765-85)	**45.3**		5.00	3.70	mg/L			07/22/24 16:45	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-9

Date Collected: 07/17/24 19:01
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/25/24 13:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/25/24 13:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/25/24 13:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/25/24 13:36	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/25/24 13:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/25/24 13:36	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/25/24 13:36	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			07/25/24 13:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/25/24 13:36	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/25/24 13:36	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			07/25/24 13:36	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			07/25/24 13:36	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			07/25/24 13:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/25/24 13:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/25/24 13:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/25/24 13:36	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			07/25/24 13:36	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/25/24 13:36	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/25/24 13:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/25/24 13:36	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/25/24 13:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/25/24 13:36	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			07/25/24 13:36	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			07/25/24 13:36	1
Acetone	<10.0		10.0	3.10	ug/L			07/25/24 13:36	1
Benzene	**9.95**		0.500	0.220	ug/L			07/25/24 13:36	1
Bromobenzene	<1.00		1.00	0.340	ug/L			07/25/24 13:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/25/24 13:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/25/24 13:36	1
Bromoform	<5.00		5.00	0.780	ug/L			07/25/24 13:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/25/24 13:36	1
Carbon disulfide	**1.10**		1.00	0.450	ug/L			07/25/24 13:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/25/24 13:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/25/24 13:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/25/24 13:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/25/24 13:36	1
Chloroform	<3.00		3.00	1.30	ug/L			07/25/24 13:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/25/24 13:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/25/24 13:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/25/24 13:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/25/24 13:36	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/25/24 13:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/25/24 13:36	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			07/25/24 13:36	1
Hexane	<1.00		1.00	0.780	ug/L			07/25/24 13:36	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			07/25/24 13:36	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			07/25/24 13:36	1
Methylene chloride	<5.00		5.00	1.70	ug/L			07/25/24 13:36	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/25/24 13:36	1

Client Sample ID: MW-9
Date Collected: 07/17/24 19:01
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00	0.440	ug/L			07/25/24 13:36	1
n-Propylbenzene	<1.00		1.00	0.390	ug/L			07/25/24 13:36	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			07/25/24 13:36	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			07/25/24 13:36	1
Styrene	<1.00		1.00	0.370	ug/L			07/25/24 13:36	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			07/25/24 13:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/25/24 13:36	1
Toluene	**6.36**		1.00	0.430	ug/L			07/25/24 13:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/25/24 13:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/25/24 13:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/25/24 13:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/25/24 13:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/25/24 13:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/25/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*07/25/24 13:36*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/25/24 13:36*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/25/24 13:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.208		0.208	0.0510	ug/L		07/24/24 16:06	07/26/24 05:55	1
Acenaphthylene	<0.208		0.208	0.0656	ug/L		07/24/24 16:06	07/26/24 05:55	1
Anthracene	<0.208		0.208	0.0635	ug/L		07/24/24 16:06	07/26/24 05:55	1
Benzo[a]anthracene	<0.208		0.208	0.0896	ug/L		07/24/24 16:06	07/26/24 05:55	1
Benzo[a]pyrene	<0.208		0.208	0.125	ug/L		07/24/24 16:06	07/26/24 05:55	1
Benzo[b]fluoranthene	<0.208		0.208	0.104	ug/L		07/24/24 16:06	07/26/24 05:55	1
Benzo[g,h,i]perylene	<0.208		0.208	0.125	ug/L		07/24/24 16:06	07/26/24 05:55	1
Benzo[k]fluoranthene	<0.208		0.208	0.115	ug/L		07/24/24 16:06	07/26/24 05:55	1
Chrysene	<0.208		0.208	0.0760	ug/L		07/24/24 16:06	07/26/24 05:55	1
Dibenz(a,h)anthracene	<0.208		0.208	0.135	ug/L		07/24/24 16:06	07/26/24 05:55	1
Fluoranthene	<0.208		0.208	0.125	ug/L		07/24/24 16:06	07/26/24 05:55	1
Fluorene	<0.208		0.208	0.0448	ug/L		07/24/24 16:06	07/26/24 05:55	1
Indeno[1,2,3-cd]pyrene	<0.208		0.208	0.115	ug/L		07/24/24 16:06	07/26/24 05:55	1
Naphthalene	<0.521	*3	0.521	0.271	ug/L		07/24/24 16:06	07/26/24 05:55	1
Phenanthrene	<0.208		0.208	0.104	ug/L		07/24/24 16:06	07/26/24 05:55	1
Pyrene	<0.208		0.208	0.0979	ug/L		07/24/24 16:06	07/26/24 05:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<10.4		10.4	5.73	ug/L		07/23/24 12:44	07/24/24 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*90*		*45 - 129*	*07/23/24 12:44*	*07/24/24 19:12*	*1*
2-Fluorobiphenyl (Surr)	*71*		*39 - 118*	*07/23/24 12:44*	*07/24/24 19:12*	*1*
Terphenyl-d14 (Surr)	*65*		*12 - 144*	*07/23/24 12:44*	*07/24/24 19:12*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.9**		10.0	4.50	mg/L			08/01/24 21:02	10

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-9

Date Collected: 07/17/24 19:01
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-8

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	354		10.0	4.20	mg/L			08/01/24 21:02	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0485		0.0140	0.00371	mg/L		07/24/24 09:30	07/31/24 14:01	7
Boron	12.9		0.400	0.304	mg/L		07/24/24 09:30	07/26/24 20:46	4
Cobalt	0.00349	J	0.00350	0.00119	mg/L		07/24/24 09:30	07/31/24 14:01	7
Iron	0.0497	J	0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:30	1
Magnesium	251	B	3.50	1.05	mg/L		07/24/24 09:30	07/29/24 11:41	7
Manganese	1.13		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	389		20.0	10.0	mg/L			07/31/24 18:51	100
Chemical Oxygen Demand (SM 5220D LL)	280		50.0	48.0	mg/L			07/25/24 09:46	10
Phenols, Total (SW846 9066)	<0.0208		0.0208	0.0104	mg/L		07/24/24 08:44	07/24/24 17:34	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/23/24 11:38	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-10

Date Collected: 07/17/24 18:03
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-9

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.3		10.0	4.50	mg/L			08/01/24 21:44	10
Sulfate	94.0		10.0	4.20	mg/L			08/01/24 21:44	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000736	J	0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:33	1
Boron	1.67		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 21:04	1
Cobalt	0.00104		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:33	1
Iron	1.40		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:33	1
Magnesium	67.6	B	0.500	0.150	mg/L		07/24/24 09:30	07/25/24 13:33	1
Manganese	0.279		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	9.38		0.200	0.100	mg/L			07/31/24 17:11	1
Chemical Oxygen Demand (SM 5220D LL)	18.2		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	715		5.00	3.70	mg/L			07/23/24 11:38	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-11

Date Collected: 07/17/24 11:52
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/24/24 12:32	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/24/24 12:32	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/24/24 12:32	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/24/24 12:32	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/24/24 12:32	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/24/24 12:32	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/24/24 12:32	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			07/24/24 12:32	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/24/24 12:32	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/24/24 12:32	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			07/24/24 12:32	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			07/24/24 12:32	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			07/24/24 12:32	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/24/24 12:32	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/24/24 12:32	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/24/24 12:32	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			07/24/24 12:32	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/24/24 12:32	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/24/24 12:32	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/24/24 12:32	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/24/24 12:32	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/24/24 12:32	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			07/24/24 12:32	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			07/24/24 12:32	1
Acetone	**4.50**	**J**	10.0	3.10	ug/L			07/24/24 12:32	1
Benzene	<0.500		0.500	0.220	ug/L			07/24/24 12:32	1
Bromobenzene	<1.00		1.00	0.340	ug/L			07/24/24 12:32	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/24/24 12:32	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/24/24 12:32	1
Bromoform	<5.00		5.00	0.780	ug/L			07/24/24 12:32	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/24/24 12:32	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/24/24 12:32	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/24/24 12:32	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/24/24 12:32	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/24/24 12:32	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/24/24 12:32	1
Chloroform	<3.00		3.00	1.30	ug/L			07/24/24 12:32	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/24/24 12:32	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/24/24 12:32	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/24/24 12:32	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/24/24 12:32	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/24/24 12:32	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/24/24 12:32	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			07/24/24 12:32	1
Hexane	<1.00		1.00	0.780	ug/L			07/24/24 12:32	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			07/24/24 12:32	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			07/24/24 12:32	1
Methylene chloride	<5.00		5.00	1.70	ug/L			07/24/24 12:32	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/24/24 12:32	1

Client Sample ID: MW-11

Date Collected: 07/17/24 11:52
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 12:32	1
n-Propylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 12:32	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			07/24/24 12:32	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 12:32	1
Styrene	<1.00		1.00	0.370	ug/L			07/24/24 12:32	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 12:32	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/24/24 12:32	1
Toluene	<1.00		1.00	0.430	ug/L			07/24/24 12:32	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/24/24 12:32	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/24/24 12:32	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/24/24 12:32	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/24/24 12:32	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/24/24 12:32	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/24/24 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*07/24/24 12:32*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/24/24 12:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/24/24 12:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.149**	**J**	0.200	0.0490	ug/L		07/24/24 16:06	07/26/24 06:14	1
Acenaphthylene	<0.200		0.200	0.0630	ug/L		07/24/24 16:06	07/26/24 06:14	1
Anthracene	<0.200		0.200	0.0610	ug/L		07/24/24 16:06	07/26/24 06:14	1
Benzo[a]anthracene	<0.200		0.200	0.0860	ug/L		07/24/24 16:06	07/26/24 06:14	1
Benzo[a]pyrene	<0.200		0.200	0.120	ug/L		07/24/24 16:06	07/26/24 06:14	1
Benzo[b]fluoranthene	<0.200		0.200	0.100	ug/L		07/24/24 16:06	07/26/24 06:14	1
Benzo[g,h,i]perylene	<0.200		0.200	0.120	ug/L		07/24/24 16:06	07/26/24 06:14	1
Benzo[k]fluoranthene	<0.200		0.200	0.110	ug/L		07/24/24 16:06	07/26/24 06:14	1
Chrysene	<0.200		0.200	0.0730	ug/L		07/24/24 16:06	07/26/24 06:14	1
Dibenz(a,h)anthracene	<0.200		0.200	0.130	ug/L		07/24/24 16:06	07/26/24 06:14	1
Fluoranthene	<0.200		0.200	0.120	ug/L		07/24/24 16:06	07/26/24 06:14	1
Fluorene	**0.0781**	**J**	0.200	0.0430	ug/L		07/24/24 16:06	07/26/24 06:14	1
Indeno[1,2,3-cd]pyrene	<0.200		0.200	0.110	ug/L		07/24/24 16:06	07/26/24 06:14	1
Naphthalene	<0.500	*3	0.500	0.260	ug/L		07/24/24 16:06	07/26/24 06:14	1
Phenanthrene	<0.200		0.200	0.100	ug/L		07/24/24 16:06	07/26/24 06:14	1
Pyrene	<0.200		0.200	0.0940	ug/L		07/24/24 16:06	07/26/24 06:14	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**293**		5.00	2.25	mg/L			08/01/24 21:58	5
Sulfate	<5.00		5.00	2.10	mg/L			08/01/24 21:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0575**		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:35	1
Boron	**1.74**		0.400	0.304	mg/L		07/24/24 09:30	07/26/24 21:08	4
Cobalt	**0.0100**		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:35	1
Iron	**63.6**		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:35	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-11
Date Collected: 07/17/24 11:52
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	95.4		2.00	0.600	mg/L		07/24/24 09:30	07/26/24 21:08	4
Manganese	1.30		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	26.1		1.88	0.938	mg/L			07/31/24 17:41	9.38
Chemical Oxygen Demand (SM 5220D LL)	122		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	138		15.0	11.1	mg/L			07/23/24 08:42	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-12

Date Collected: 07/17/24 10:51
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/24/24 12:10	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/24/24 12:10	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/24/24 12:10	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/24/24 12:10	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/24/24 12:10	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/24/24 12:10	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/24/24 12:10	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			07/24/24 12:10	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/24/24 12:10	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/24/24 12:10	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			07/24/24 12:10	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			07/24/24 12:10	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			07/24/24 12:10	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/24/24 12:10	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/24/24 12:10	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/24/24 12:10	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			07/24/24 12:10	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/24/24 12:10	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/24/24 12:10	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/24/24 12:10	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/24/24 12:10	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/24/24 12:10	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			07/24/24 12:10	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			07/24/24 12:10	1
Acetone	<10.0		10.0	3.10	ug/L			07/24/24 12:10	1
Benzene	<0.500		0.500	0.220	ug/L			07/24/24 12:10	1
Bromobenzene	<1.00		1.00	0.340	ug/L			07/24/24 12:10	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/24/24 12:10	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/24/24 12:10	1
Bromoform	<5.00		5.00	0.780	ug/L			07/24/24 12:10	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/24/24 12:10	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/24/24 12:10	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/24/24 12:10	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/24/24 12:10	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/24/24 12:10	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/24/24 12:10	1
Chloroform	<3.00		3.00	1.30	ug/L			07/24/24 12:10	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/24/24 12:10	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/24/24 12:10	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/24/24 12:10	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/24/24 12:10	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/24/24 12:10	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/24/24 12:10	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			07/24/24 12:10	1
Hexane	<1.00		1.00	0.780	ug/L			07/24/24 12:10	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			07/24/24 12:10	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			07/24/24 12:10	1
Methylene chloride	<5.00		5.00	1.70	ug/L			07/24/24 12:10	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/24/24 12:10	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-12

Date Collected: 07/17/24 10:51
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 12:10	1
n-Propylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 12:10	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			07/24/24 12:10	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 12:10	1
Styrene	<1.00		1.00	0.370	ug/L			07/24/24 12:10	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 12:10	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/24/24 12:10	1
Toluene	<1.00		1.00	0.430	ug/L			07/24/24 12:10	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/24/24 12:10	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/24/24 12:10	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/24/24 12:10	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/24/24 12:10	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/24/24 12:10	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/24/24 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*07/24/24 12:10*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/24/24 12:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/24/24 12:10*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**298**		5.00	2.25	mg/L			08/01/24 22:12	5
Sulfate	**23.2**		5.00	2.10	mg/L			08/01/24 22:12	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0704**		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:37	1
Boron	**2.41**		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 21:11	1
Cobalt	**0.00175**		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:37	1
Iron	**25.0**		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:37	1
Magnesium	**77.8**	**B**	0.500	0.150	mg/L		07/24/24 09:30	07/25/24 13:37	1
Manganese	**0.930**		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**17.7**		1.88	0.938	mg/L			07/31/24 17:42	9.38
Chemical Oxygen Demand (SM 5220D LL)	**28.7**		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	**52.5**		3.75	2.78	mg/L			07/23/24 08:42	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-13

Date Collected: 07/17/24 16:58
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-12

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.6		10.0	4.50	mg/L			08/01/24 22:27	10
Sulfate	<5.00		5.00	2.10	mg/L			08/02/24 13:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0952		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:41	1
Boron	9.79		0.400	0.304	mg/L		07/24/24 09:30	07/26/24 21:18	4
Cobalt	0.00239		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:41	1
Iron	29.2		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:41	1
Magnesium	263		2.00	0.600	mg/L		07/24/24 09:30	07/26/24 21:18	4
Manganese	1.71		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	59.3		1.88	0.938	mg/L			07/31/24 17:43	9.38
Chemical Oxygen Demand (SM 5220D LL)	114		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	79.3		5.00	3.70	mg/L			07/23/24 11:38	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-14

Date Collected: 07/17/24 09:51
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-13

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		10.0	4.50	mg/L			08/01/24 22:41	10
Sulfate	206		10.0	4.20	mg/L			08/01/24 22:41	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000948	J	0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:53	1
Boron	1.54		0.400	0.304	mg/L		07/24/24 09:30	07/26/24 21:22	4
Cobalt	0.00107		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:53	1
Iron	<0.100		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:53	1
Magnesium	102		2.00	0.600	mg/L		07/24/24 09:30	07/26/24 21:22	4
Manganese	1.14		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	11.5		1.88	0.938	mg/L			07/31/24 17:43	9.38
Chemical Oxygen Demand (SM 5220D LL)	22.8		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	15.0		1.88	1.39	mg/L			07/23/24 11:38	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-18

Date Collected: 07/17/24 14:11
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-14

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.2		10.0	4.50	mg/L			08/01/24 22:55	10
Sulfate	60.7		10.0	4.20	mg/L			08/01/24 22:55	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00503		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:55	1
Boron	0.383		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 21:26	1
Cobalt	0.00267		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:55	1
Iron	2.02		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:55	1
Magnesium	33.9	B	0.500	0.150	mg/L		07/24/24 09:30	07/25/24 13:55	1
Manganese	0.274		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	2.63		0.200	0.100	mg/L			07/31/24 17:14	1
Chemical Oxygen Demand (SM 5220D LL)	29.1		5.00	4.80	mg/L			07/25/24 09:46	1
Phenols, Total (SW846 9066)	<0.0192		0.0192	0.00960	mg/L		07/24/24 08:44	07/24/24 17:35	1
Total Suspended Solids (USGS I-3765-85)	10.3		2.50	1.85	mg/L			07/23/24 08:42	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-4

Date Collected: 07/16/24 15:26
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-15

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**177**		10.0	4.50	mg/L			08/01/24 23:09	10
Sulfate	**49.6**		10.0	4.20	mg/L			08/01/24 23:09	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:57	1
Boron	**0.342**		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 21:29	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:57	1
Iron	<0.100		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			07/31/24 17:16	1
Chemical Oxygen Demand (SM 5220D LL)	**8.41**		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/22/24 16:45	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-8

Date Collected: 07/16/24 18:24
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-16

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		10.0	4.50	mg/L			08/01/24 23:23	10
Sulfate	**47.5**		10.0	4.20	mg/L			08/01/24 23:23	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 13:59	1
Boron	**0.358**		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 21:33	1
Cobalt	**0.000225**	**J**	0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 13:59	1
Iron	<0.100		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			07/31/24 17:16	1
Chemical Oxygen Demand (SM 5220D LL)	**6.31**		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/22/24 16:45	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-16

Date Collected: 07/17/24 12:33
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-17

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.3**		10.0	4.50	mg/L			08/01/24 23:37	10
Sulfate	**49.5**		10.0	4.20	mg/L			08/01/24 23:37	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000670**	**J**	0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 14:02	1
Boron	**0.264**		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 21:37	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 14:02	1
Iron	<0.100		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			07/31/24 17:19	1
Chemical Oxygen Demand (SM 5220D LL)	**12.6**		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/23/24 11:38	1

Client Sample Results

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-D

Date Collected: 07/16/24 15:26
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-18

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		10.0	4.50	mg/L			08/01/24 23:51	10
Sulfate	**48.0**		10.0	4.20	mg/L			08/01/24 23:51	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 14:04	1
Boron	**0.320**		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 21:55	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 14:04	1
Iron	<0.100		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			07/31/24 17:19	1
Chemical Oxygen Demand (SM 5220D LL)	<5.00		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/22/24 16:45	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-15

Date Collected: 07/17/24 09:13
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-19

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.1**		5.00	2.25	mg/L			08/02/24 00:05	5
Sulfate	**86.1**		5.00	2.10	mg/L			08/02/24 00:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 14:06	1
Boron	**0.215**		0.100	0.0760	mg/L		07/24/24 09:30	07/26/24 21:59	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 14:06	1
Iron	<0.100		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 14:06	1
Magnesium	**51.7**	**B**	0.500	0.150	mg/L		07/24/24 09:30	07/25/24 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.100	mg/L			07/31/24 17:21	1
Chemical Oxygen Demand (SM 5220D LL)	**11.6**		5.00	4.80	mg/L			07/25/24 09:46	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/23/24 08:42	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: Trip Blank 1

Date Collected: 07/17/24 00:00
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-26

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/24/24 06:32	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/24/24 06:32	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/24/24 06:32	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/24/24 06:32	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/24/24 06:32	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/24/24 06:32	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/24/24 06:32	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			07/24/24 06:32	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/24/24 06:32	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/24/24 06:32	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			07/24/24 06:32	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			07/24/24 06:32	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			07/24/24 06:32	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/24/24 06:32	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/24/24 06:32	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/24/24 06:32	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			07/24/24 06:32	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/24/24 06:32	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/24/24 06:32	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/24/24 06:32	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/24/24 06:32	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/24/24 06:32	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			07/24/24 06:32	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			07/24/24 06:32	1
Acetone	<10.0		10.0	3.10	ug/L			07/24/24 06:32	1
Benzene	<0.500		0.500	0.220	ug/L			07/24/24 06:32	1
Bromobenzene	<1.00		1.00	0.340	ug/L			07/24/24 06:32	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/24/24 06:32	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/24/24 06:32	1
Bromoform	<5.00		5.00	0.780	ug/L			07/24/24 06:32	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/24/24 06:32	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/24/24 06:32	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/24/24 06:32	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/24/24 06:32	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/24/24 06:32	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/24/24 06:32	1
Chloroform	<3.00		3.00	1.30	ug/L			07/24/24 06:32	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/24/24 06:32	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/24/24 06:32	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/24/24 06:32	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/24/24 06:32	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/24/24 06:32	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/24/24 06:32	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			07/24/24 06:32	1
Hexane	<1.00		1.00	0.780	ug/L			07/24/24 06:32	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			07/24/24 06:32	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			07/24/24 06:32	1
Methylene chloride	<5.00		5.00	1.70	ug/L			07/24/24 06:32	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/24/24 06:32	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: Trip Blank 1

Date Collected: 07/17/24 00:00
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-26

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 06:32	1
n-Propylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 06:32	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			07/24/24 06:32	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 06:32	1
Styrene	<1.00		1.00	0.370	ug/L			07/24/24 06:32	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 06:32	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/24/24 06:32	1
Toluene	<1.00		1.00	0.430	ug/L			07/24/24 06:32	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/24/24 06:32	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/24/24 06:32	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/24/24 06:32	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/24/24 06:32	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/24/24 06:32	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/24/24 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*07/24/24 06:32*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/24/24 06:32*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*07/24/24 06:32*	*1*

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: Trip Blank 3

Date Collected: 07/17/24 00:00
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/24/24 06:54	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/24/24 06:54	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/24/24 06:54	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/24/24 06:54	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/24/24 06:54	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/24/24 06:54	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/24/24 06:54	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			07/24/24 06:54	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/24/24 06:54	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/24/24 06:54	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			07/24/24 06:54	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			07/24/24 06:54	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			07/24/24 06:54	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/24/24 06:54	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/24/24 06:54	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/24/24 06:54	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			07/24/24 06:54	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/24/24 06:54	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/24/24 06:54	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/24/24 06:54	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/24/24 06:54	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/24/24 06:54	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			07/24/24 06:54	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			07/24/24 06:54	1
Acetone	<10.0		10.0	3.10	ug/L			07/24/24 06:54	1
Benzene	<0.500		0.500	0.220	ug/L			07/24/24 06:54	1
Bromobenzene	<1.00		1.00	0.340	ug/L			07/24/24 06:54	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/24/24 06:54	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/24/24 06:54	1
Bromoform	<5.00		5.00	0.780	ug/L			07/24/24 06:54	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/24/24 06:54	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/24/24 06:54	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/24/24 06:54	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/24/24 06:54	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/24/24 06:54	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/24/24 06:54	1
Chloroform	<3.00		3.00	1.30	ug/L			07/24/24 06:54	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/24/24 06:54	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/24/24 06:54	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/24/24 06:54	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/24/24 06:54	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/24/24 06:54	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/24/24 06:54	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			07/24/24 06:54	1
Hexane	<1.00		1.00	0.780	ug/L			07/24/24 06:54	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			07/24/24 06:54	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			07/24/24 06:54	1
Methylene chloride	<5.00		5.00	1.70	ug/L			07/24/24 06:54	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/24/24 06:54	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: Trip Blank 3

Date Collected: 07/17/24 00:00
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 06:54	1
n-Propylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 06:54	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			07/24/24 06:54	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 06:54	1
Styrene	<1.00		1.00	0.370	ug/L			07/24/24 06:54	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 06:54	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/24/24 06:54	1
Toluene	<1.00		1.00	0.430	ug/L			07/24/24 06:54	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/24/24 06:54	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/24/24 06:54	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/24/24 06:54	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/24/24 06:54	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/24/24 06:54	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/24/24 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*07/24/24 06:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/24/24 06:54*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*07/24/24 06:54*	*1*

Definitions/Glossary

Client: SCS Engineers
Job ID: 310-286332-1
Project/Site: Archer Daniels Midland Landfill

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
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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: Archer Daniels Midland Landfill

Job ID: 310-286332-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-286332-8	MW-9	100	100	103
310-286332-10	MW-11	101	101	102
310-286332-11	MW-12	102	99	101
310-286332-26	Trip Blank 1	99	97	104
310-286332-28	Trip Blank 3	101	100	104
LCS 310-428134/6	Lab Control Sample	101	99	101
LCS 310-428134/7	Lab Control Sample	99	99	102
LCS 310-428392/10	Lab Control Sample	102	99	102
LCS 310-428392/8	Lab Control Sample	100	100	99
MB 310-428134/5	Method Blank	100	98	100
MB 310-428392/7	Method Blank	101	100	103

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(45-129)	(39-118)	(12-144)
310-286332-7	MW-7	100	77	69
310-286332-8	MW-9	90	71	65
LCS 310-428138/2-A	Lab Control Sample	94	77	90
LCSD 310-428138/3-A	Lab Control Sample Dup	92	74	87
MB 310-428138/1-A	Method Blank	101	85	93

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 310-428134/5
Matrix: Water
Analysis Batch: 428134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/24/24 04:39	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/24/24 04:39	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/24/24 04:39	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/24/24 04:39	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/24/24 04:39	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/24/24 04:39	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/24/24 04:39	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			07/24/24 04:39	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/24/24 04:39	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/24/24 04:39	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			07/24/24 04:39	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			07/24/24 04:39	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			07/24/24 04:39	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/24/24 04:39	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/24/24 04:39	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/24/24 04:39	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			07/24/24 04:39	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/24/24 04:39	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/24/24 04:39	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/24/24 04:39	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/24/24 04:39	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/24/24 04:39	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			07/24/24 04:39	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			07/24/24 04:39	1
Acetone	<10.0		10.0	3.10	ug/L			07/24/24 04:39	1
Benzene	<0.500		0.500	0.220	ug/L			07/24/24 04:39	1
Bromobenzene	<1.00		1.00	0.340	ug/L			07/24/24 04:39	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/24/24 04:39	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/24/24 04:39	1
Bromoform	<5.00		5.00	0.780	ug/L			07/24/24 04:39	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/24/24 04:39	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/24/24 04:39	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/24/24 04:39	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/24/24 04:39	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/24/24 04:39	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/24/24 04:39	1
Chloroform	<3.00		3.00	1.30	ug/L			07/24/24 04:39	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/24/24 04:39	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/24/24 04:39	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/24/24 04:39	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/24/24 04:39	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/24/24 04:39	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/24/24 04:39	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			07/24/24 04:39	1
Hexane	<1.00		1.00	0.780	ug/L			07/24/24 04:39	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			07/24/24 04:39	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			07/24/24 04:39	1
Methylene chloride	<5.00		5.00	1.70	ug/L			07/24/24 04:39	1

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

Lab Sample ID: MB 310-428134/5
Matrix: Water
Analysis Batch: 428134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<5.00		5.00	3.00	ug/L			07/24/24 04:39	1
n-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 04:39	1
n-Propylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 04:39	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			07/24/24 04:39	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			07/24/24 04:39	1
Styrene	<1.00		1.00	0.370	ug/L			07/24/24 04:39	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			07/24/24 04:39	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/24/24 04:39	1
Toluene	<1.00		1.00	0.430	ug/L			07/24/24 04:39	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/24/24 04:39	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/24/24 04:39	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/24/24 04:39	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/24/24 04:39	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/24/24 04:39	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/24/24 04:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*07/24/24 04:39*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/24/24 04:39*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/24/24 04:39*	*1*

Lab Sample ID: LCS 310-428134/6
Matrix: Water
Analysis Batch: 428134

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	18.46		ug/L		92	71 - 120
1,1,1-Trichloroethane	20.0	21.35		ug/L		107	73 - 129
1,1,2,2-Tetrachloroethane	20.0	18.64		ug/L		93	68 - 124
1,1,2-Trichloroethane	20.0	19.99		ug/L		100	73 - 123
1,1-Dichloroethane	20.0	19.58		ug/L		98	70 - 127
1,1-Dichloroethene	20.0	21.15		ug/L		106	63 - 132
1,1-Dichloropropene	20.0	21.06		ug/L		105	69 - 132
1,2,3-Trichlorobenzene	20.0	18.26		ug/L		91	50 - 150
1,2,3-Trichloropropane	20.0	19.04		ug/L		95	65 - 127
1,2,4-Trichlorobenzene	20.0	18.30		ug/L		91	68 - 124
1,2,4-Trimethylbenzene	20.0	20.16		ug/L		101	73 - 124
1,2-Dibromo-3-chloropropane	20.0	16.33		ug/L		82	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.52		ug/L		98	75 - 125
1,2-Dichlorobenzene	20.0	19.19		ug/L		96	74 - 120
1,2-Dichloroethane	20.0	19.11		ug/L		96	71 - 125
1,2-Dichloropropane	20.0	20.02		ug/L		100	73 - 124
1,3,5-Trimethylbenzene	20.0	20.22		ug/L		101	73 - 123
1,3-Dichlorobenzene	20.0	19.38		ug/L		97	72 - 120
1,3-Dichloropropane	20.0	19.38		ug/L		97	72 - 125
1,4-Dichlorobenzene	20.0	18.30		ug/L		92	72 - 120
2,2-Dichloropropane	20.0	18.81		ug/L		94	50 - 150
2-Butanone (MEK)	40.0	36.66		ug/L		92	50 - 150

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

Lab Sample ID: LCS 310-428134/6
Matrix: Water
Analysis Batch: 428134

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	20.0	20.00		ug/L		100	73 - 121
4-Chlorotoluene	20.0	19.47		ug/L		97	72 - 121
Acetone	40.0	38.92		ug/L		97	50 - 150
Benzene	20.0	19.87		ug/L		99	72 - 124
Bromobenzene	20.0	19.17		ug/L		96	72 - 120
Bromochloromethane	20.0	20.55		ug/L		103	73 - 130
Bromodichloromethane	20.0	19.11		ug/L		96	74 - 122
Bromoform	20.0	17.70		ug/L		88	61 - 122
Carbon disulfide	20.0	19.89		ug/L		99	59 - 135
Carbon tetrachloride	20.0	18.62		ug/L		93	67 - 132
Chlorobenzene	20.0	18.88		ug/L		94	76 - 120
Chlorodibromomethane	20.0	18.88		ug/L		94	71 - 121
Chloroform	20.0	19.53		ug/L		98	72 - 125
cis-1,2-Dichloroethene	20.0	19.61		ug/L		98	74 - 123
cis-1,3-Dichloropropene	20.0	19.36		ug/L		97	71 - 125
Dibromomethane	20.0	19.58		ug/L		98	74 - 125
Ethylbenzene	20.0	19.86		ug/L		99	74 - 122
Hexachlorobutadiene	20.0	17.89		ug/L		89	50 - 150
Hexane	20.0	17.50		ug/L		87	45 - 150
Isopropylbenzene	20.0	20.26		ug/L		101	73 - 125
Methyl tert-butyl ether	20.0	19.22		ug/L		96	68 - 130
Methylene chloride	20.0	19.78		ug/L		99	50 - 150
Naphthalene	20.0	18.84		ug/L		94	50 - 150
n-Butylbenzene	20.0	18.15		ug/L		91	67 - 131
n-Propylbenzene	20.0	20.42		ug/L		102	72 - 126
p-Isopropyltoluene	20.0	20.26		ug/L		101	70 - 127
sec-Butylbenzene	20.0	20.38		ug/L		102	70 - 127
Styrene	20.0	20.09		ug/L		100	74 - 121
tert-Butylbenzene	20.0	20.59		ug/L		103	72 - 124
Tetrachloroethene	20.0	19.07		ug/L		95	71 - 130
Toluene	20.0	19.70		ug/L		98	74 - 123
trans-1,2-Dichloroethene	20.0	20.47		ug/L		102	70 - 126
trans-1,3-Dichloropropene	20.0	17.30		ug/L		86	69 - 123
Trichloroethene	20.0	20.37		ug/L		102	72 - 126
Xylenes, Total	40.0	40.26		ug/L		101	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: LCS 310-428134/7
Matrix: Water
Analysis Batch: 428134

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	17.28		ug/L		86	23 - 150
Chloroethane	20.0	19.43		ug/L		97	54 - 136

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

Lab Sample ID: LCS 310-428134/7
Matrix: Water
Analysis Batch: 428134

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	20.0	19.83		ug/L		99	38 - 150
Dichlorodifluoromethane	20.0	17.41		ug/L		87	39 - 150
Trichlorofluoromethane	20.0	19.33		ug/L		97	54 - 149
Vinyl chloride	20.0	19.67		ug/L		98	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 310-428392/7
Matrix: Water
Analysis Batch: 428392

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/25/24 11:20	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/25/24 11:20	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/25/24 11:20	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/25/24 11:20	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/25/24 11:20	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/25/24 11:20	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/25/24 11:20	1
1,2,3-Trichlorobenzene	<5.00		5.00	0.900	ug/L			07/25/24 11:20	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/25/24 11:20	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/25/24 11:20	1
1,2,4-Trimethylbenzene	<1.00		1.00	0.420	ug/L			07/25/24 11:20	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			07/25/24 11:20	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			07/25/24 11:20	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/25/24 11:20	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/25/24 11:20	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/25/24 11:20	1
1,3,5-Trimethylbenzene	<1.00		1.00	0.370	ug/L			07/25/24 11:20	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/25/24 11:20	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/25/24 11:20	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/25/24 11:20	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/25/24 11:20	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/25/24 11:20	1
2-Chlorotoluene	<1.00		1.00	0.280	ug/L			07/25/24 11:20	1
4-Chlorotoluene	<1.00		1.00	0.290	ug/L			07/25/24 11:20	1
Acetone	<10.0		10.0	3.10	ug/L			07/25/24 11:20	1
Benzene	<0.500		0.500	0.220	ug/L			07/25/24 11:20	1
Bromobenzene	<1.00		1.00	0.340	ug/L			07/25/24 11:20	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/25/24 11:20	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/25/24 11:20	1
Bromoform	<5.00		5.00	0.780	ug/L			07/25/24 11:20	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/25/24 11:20	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/25/24 11:20	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/25/24 11:20	1

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

Lab Sample ID: MB 310-428392/7
Matrix: Water
Analysis Batch: 428392

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/25/24 11:20	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/25/24 11:20	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/25/24 11:20	1
Chloroform	<3.00		3.00	1.30	ug/L			07/25/24 11:20	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/25/24 11:20	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/25/24 11:20	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/25/24 11:20	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/25/24 11:20	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/25/24 11:20	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/25/24 11:20	1
Hexachlorobutadiene	<5.00		5.00	1.40	ug/L			07/25/24 11:20	1
Hexane	0.7849	J	1.00	0.780	ug/L			07/25/24 11:20	1
Isopropylbenzene	<1.00		1.00	0.350	ug/L			07/25/24 11:20	1
Methyl tert-butyl ether	<1.00		1.00	0.490	ug/L			07/25/24 11:20	1
Methylene chloride	<5.00		5.00	1.70	ug/L			07/25/24 11:20	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/25/24 11:20	1
n-Butylbenzene	<1.00		1.00	0.440	ug/L			07/25/24 11:20	1
n-Propylbenzene	<1.00		1.00	0.390	ug/L			07/25/24 11:20	1
p-Isopropyltoluene	<1.00		1.00	0.330	ug/L			07/25/24 11:20	1
sec-Butylbenzene	<1.00		1.00	0.440	ug/L			07/25/24 11:20	1
Styrene	<1.00		1.00	0.370	ug/L			07/25/24 11:20	1
tert-Butylbenzene	<1.00		1.00	0.390	ug/L			07/25/24 11:20	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/25/24 11:20	1
Toluene	<1.00		1.00	0.430	ug/L			07/25/24 11:20	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/25/24 11:20	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/25/24 11:20	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/25/24 11:20	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/25/24 11:20	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/25/24 11:20	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/25/24 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*07/25/24 11:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/25/24 11:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/25/24 11:20*	*1*

Lab Sample ID: LCS 310-428392/10
Matrix: Water
Analysis Batch: 428392

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	16.15		ug/L		81	23 - 150
Chloroethane	20.0	18.28		ug/L		91	54 - 136
Chloromethane	20.0	17.98		ug/L		90	38 - 150
Dichlorodifluoromethane	20.0	15.07		ug/L		75	39 - 150
Trichlorofluoromethane	20.0	17.64		ug/L		88	54 - 149
Vinyl chloride	20.0	17.82		ug/L		89	56 - 140

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

Lab Sample ID: LCS 310-428392/10
Matrix: Water
Analysis Batch: 428392

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	102		73 - 130
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: LCS 310-428392/8
Matrix: Water
Analysis Batch: 428392

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	18.95		ug/L		95	71 - 120
1,1,1-Trichloroethane	20.0	22.14		ug/L		111	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.81		ug/L		99	68 - 124
1,1,2-Trichloroethane	20.0	20.46		ug/L		102	73 - 123
1,1-Dichloroethane	20.0	20.48		ug/L		102	70 - 127
1,1-Dichloroethene	20.0	21.96		ug/L		110	63 - 132
1,1-Dichloropropene	20.0	21.89		ug/L		109	69 - 132
1,2,3-Trichlorobenzene	20.0	18.20		ug/L		91	50 - 150
1,2,3-Trichloropropane	20.0	19.97		ug/L		100	65 - 127
1,2,4-Trichlorobenzene	20.0	18.63		ug/L		93	68 - 124
1,2,4-Trimethylbenzene	20.0	20.67		ug/L		103	73 - 124
1,2-Dibromo-3-chloropropane	20.0	17.70		ug/L		88	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.93		ug/L		100	75 - 125
1,2-Dichlorobenzene	20.0	19.87		ug/L		99	74 - 120
1,2-Dichloroethane	20.0	19.47		ug/L		97	71 - 125
1,2-Dichloropropane	20.0	21.11		ug/L		106	73 - 124
1,3,5-Trimethylbenzene	20.0	20.66		ug/L		103	73 - 123
1,3-Dichlorobenzene	20.0	19.69		ug/L		98	72 - 120
1,3-Dichloropropane	20.0	19.56		ug/L		98	72 - 125
1,4-Dichlorobenzene	20.0	18.59		ug/L		93	72 - 120
2,2-Dichloropropane	20.0	22.41		ug/L		112	50 - 150
2-Butanone (MEK)	40.0	40.76		ug/L		102	50 - 150
2-Chlorotoluene	20.0	20.40		ug/L		102	73 - 121
4-Chlorotoluene	20.0	19.82		ug/L		99	72 - 121
Acetone	40.0	41.05		ug/L		103	50 - 150
Benzene	20.0	20.69		ug/L		103	72 - 124
Bromobenzene	20.0	19.53		ug/L		98	72 - 120
Bromochloromethane	20.0	20.86		ug/L		104	73 - 130
Bromodichloromethane	20.0	19.75		ug/L		99	74 - 122
Bromoform	20.0	19.24		ug/L		96	61 - 122
Carbon disulfide	20.0	20.41		ug/L		102	59 - 135
Carbon tetrachloride	20.0	19.89		ug/L		99	67 - 132
Chlorobenzene	20.0	19.62		ug/L		98	76 - 120
Chlorodibromomethane	20.0	20.09		ug/L		100	71 - 121
Chloroform	20.0	19.81		ug/L		99	72 - 125
cis-1,2-Dichloroethene	20.0	20.39		ug/L		102	74 - 123
cis-1,3-Dichloropropene	20.0	20.76		ug/L		104	71 - 125
Dibromomethane	20.0	19.76		ug/L		99	74 - 125
Ethylbenzene	20.0	20.76		ug/L		104	74 - 122

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

Lab Sample ID: LCS 310-428392/8
Matrix: Water
Analysis Batch: 428392

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	20.0	18.58		ug/L		93	50 - 150
Hexane	20.0	19.69		ug/L		98	45 - 150
Isopropylbenzene	20.0	21.39		ug/L		107	73 - 125
Methyl tert-butyl ether	20.0	19.83		ug/L		99	68 - 130
Methylene chloride	20.0	20.32		ug/L		102	50 - 150
Naphthalene	20.0	20.22		ug/L		101	50 - 150
n-Butylbenzene	20.0	18.91		ug/L		95	67 - 131
n-Propylbenzene	20.0	21.30		ug/L		107	72 - 126
p-Isopropyltoluene	20.0	20.92		ug/L		105	70 - 127
sec-Butylbenzene	20.0	21.49		ug/L		107	70 - 127
Styrene	20.0	20.79		ug/L		104	74 - 121
tert-Butylbenzene	20.0	21.58		ug/L		108	72 - 124
Tetrachloroethene	20.0	20.61		ug/L		103	71 - 130
Toluene	20.0	20.61		ug/L		103	74 - 123
trans-1,2-Dichloroethene	20.0	22.01		ug/L		110	70 - 126
trans-1,3-Dichloropropene	20.0	18.13		ug/L		91	69 - 123
Trichloroethene	20.0	21.38		ug/L		107	72 - 126
Xylenes, Total	40.0	41.89		ug/L		105	73 - 123

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

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

Lab Sample ID: MB 310-428138/1-A
Matrix: Water
Analysis Batch: 428188

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		07/23/24 12:44	07/24/24 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*101*		*45 - 129*	*07/23/24 12:44*	*07/24/24 13:07*	*1*
2-Fluorobiphenyl (Surr)	*85*		*39 - 118*	*07/23/24 12:44*	*07/24/24 13:07*	*1*
Terphenyl-d14 (Surr)	*93*		*12 - 144*	*07/23/24 12:44*	*07/24/24 13:07*	*1*

Lab Sample ID: LCS 310-428138/2-A
Matrix: Water
Analysis Batch: 428188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	100	51.34		ug/L		51	33 - 110
1,2-Dichlorobenzene	100	59.19		ug/L		59	33 - 110
1,3-Dichlorobenzene	100	54.73		ug/L		55	31 - 110
1,4-Dichlorobenzene	100	58.25		ug/L		58	32 - 110
2,4-Dinitrotoluene	100	96.42		ug/L		96	47 - 137

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

Lab Sample ID: LCS 310-428138/2-A
Matrix: Water
Analysis Batch: 428188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	100	90.40		ug/L		90	51 - 130
2-Chloronaphthalene	100	67.45		ug/L		67	37 - 110
2-Methylnaphthalene	100	61.72		ug/L		62	33 - 110
2-Nitroaniline	100	93.89		ug/L		94	50 - 135
3-Nitroaniline	100	106.9		ug/L		107	42 - 139
4-Bromophenyl phenyl ether	100	78.28		ug/L		78	45 - 119
4-Chloroaniline	100	91.83		ug/L		92	21 - 139
4-Chlorophenyl phenyl ether	100	66.60		ug/L		67	44 - 116
4-Nitroaniline	100	113.7		ug/L		114	31 - 145
Acenaphthene	100	68.11		ug/L		68	43 - 110
Acenaphthylene	100	73.95		ug/L		74	40 - 110
Anthracene	100	97.17		ug/L		97	51 - 120
Benzo(a)anthracene	100	82.42		ug/L		82	51 - 123
Benzo(a)pyrene	100	79.74		ug/L		80	48 - 125
Benzo(b)fluoranthene	100	79.83		ug/L		80	49 - 129
Benzo(g,h,i)perylene	100	78.18		ug/L		78	43 - 139
Benzo(k)fluoranthene	100	96.20		ug/L		96	47 - 130
Benzyl alcohol	100	84.85		ug/L		85	39 - 128
Bis(2-chloroethoxy)methane	100	90.78		ug/L		91	48 - 121
Bis(2-chloroethyl)ether	100	78.09		ug/L		78	43 - 123
bis(2-chloroisopropyl) ether	100	69.80		ug/L		70	34 - 123
Bis(2-ethylhexyl) phthalate	100	84.63		ug/L		85	43 - 143
Butyl benzyl phthalate	100	93.61		ug/L		94	46 - 135
Carbazole	100	101.6		ug/L		102	51 - 126
Chrysene	100	90.02		ug/L		90	51 - 125
Dibenz(a,h)anthracene	100	86.70		ug/L		87	38 - 149
Dibenzofuran	100	76.92		ug/L		77	45 - 112
Diethyl phthalate	100	95.05		ug/L		95	43 - 135
Dimethyl phthalate	100	94.94		ug/L		95	43 - 129
Di-n-butyl phthalate	100	95.28		ug/L		95	50 - 133
Di-n-octyl phthalate	100	80.06		ug/L		80	34 - 150
Fluoranthene	100	102.7		ug/L		103	47 - 128
Fluorene	100	78.09		ug/L		78	45 - 119
Hexachlorobenzene	100	75.85		ug/L		76	48 - 119
Hexachlorobutadiene	100	46.47		ug/L		46	32 - 110
Hexachlorocyclopentadiene	100	21.43		ug/L		21	10 - 110
Hexachloroethane	100	47.55		ug/L		48	31 - 110
Indeno(1,2,3-cd)pyrene	100	88.63		ug/L		89	37 - 150
Isophorone	100	94.94		ug/L		95	50 - 125
Naphthalene	100	63.30		ug/L		63	38 - 110
Nitrobenzene	100	90.32		ug/L		90	47 - 116
N-Nitrosodimethylamine	100	74.51		ug/L		75	37 - 110
N-Nitrosodi-n-propylamine	100	104.2		ug/L		104	45 - 130
N-Nitrosodiphenylamine	100	90.27		ug/L		90	49 - 121
Phenanthrene	100	92.23		ug/L		92	51 - 117
Pyrene	100	94.35		ug/L		94	48 - 127
Pyridine	200	101.8		ug/L		51	10 - 110

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

Lab Sample ID: LCS 310-428138/2-A
Matrix: Water
Analysis Batch: 428188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*94*		*45 - 129*
2-Fluorobiphenyl (Surr)	*77*		*39 - 118*
Terphenyl-d14 (Surr)	*90*		*12 - 144*

Lab Sample ID: LCSD 310-428138/3-A
Matrix: Water
Analysis Batch: 428188

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 428138

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			100	51.28		ug/L		51	33 - 110	0	35
1,2-Dichlorobenzene			100	55.40		ug/L		55	33 - 110	7	35
1,3-Dichlorobenzene			100	52.98		ug/L		53	31 - 110	3	35
1,4-Dichlorobenzene			100	55.43		ug/L		55	32 - 110	5	35
2,4-Dinitrotoluene			100	91.14		ug/L		91	47 - 137	6	35
2,6-Dinitrotoluene			100	83.93		ug/L		84	51 - 130	7	35
2-Chloronaphthalene			100	65.52		ug/L		66	37 - 110	3	35
2-Methylnaphthalene			100	58.62		ug/L		59	33 - 110	5	35
2-Nitroaniline			100	89.67		ug/L		90	50 - 135	5	35
3-Nitroaniline			100	99.03		ug/L		99	42 - 139	8	35
4-Bromophenyl phenyl ether			100	73.54		ug/L		74	45 - 119	6	35
4-Chloroaniline			100	78.10		ug/L		78	21 - 139	16	35
4-Chlorophenyl phenyl ether			100	65.49		ug/L		65	44 - 116	2	35
4-Nitroaniline			100	106.5		ug/L		107	31 - 145	7	35
Acenaphthene			100	65.55		ug/L		66	43 - 110	4	35
Acenaphthylene			100	68.13		ug/L		68	40 - 110	8	35
Anthracene			100	90.07		ug/L		90	51 - 120	8	35
Benzo(a)anthracene			100	75.40		ug/L		75	51 - 123	9	35
Benzo(a)pyrene			100	75.20		ug/L		75	48 - 125	6	35
Benzo(b)fluoranthene			100	73.01		ug/L		73	49 - 129	9	35
Benzo(g,h,i)perylene			100	72.12		ug/L		72	43 - 139	8	35
Benzo(k)fluoranthene			100	81.61		ug/L		82	47 - 130	16	35
Benzyl alcohol			100	75.53		ug/L		76	39 - 128	12	35
Bis(2-chloroethoxy)methane			100	82.47		ug/L		82	48 - 121	10	35
Bis(2-chloroethyl)ether			100	67.44		ug/L		67	43 - 123	15	35
bis(2-chloroisopropyl) ether			100	58.64		ug/L		59	34 - 123	17	35
Bis(2-ethylhexyl) phthalate			100	81.03		ug/L		81	43 - 143	4	35
Butyl benzyl phthalate			100	86.65		ug/L		87	46 - 135	8	35
Carbazole			100	95.77		ug/L		96	51 - 126	6	35
Chrysene			100	83.38		ug/L		83	51 - 125	8	35
Dibenz(a,h)anthracene			100	77.58		ug/L		78	38 - 149	11	35
Dibenzofuran			100	74.38		ug/L		74	45 - 112	3	35
Diethyl phthalate			100	88.74		ug/L		89	43 - 135	7	35
Dimethyl phthalate			100	89.13		ug/L		89	43 - 129	6	35
Di-n-butyl phthalate			100	88.96		ug/L		89	50 - 133	7	35
Di-n-octyl phthalate			100	74.72		ug/L		75	34 - 150	7	35
Fluoranthene			100	94.34		ug/L		94	47 - 128	9	35
Fluorene			100	73.01		ug/L		73	45 - 119	7	35
Hexachlorobenzene			100	69.12		ug/L		69	48 - 119	9	35

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

Lab Sample ID: LCSD 310-428138/3-A
Matrix: Water
Analysis Batch: 428188

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 428138

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene			100	53.12		ug/L		53	32 - 110	13	35
Hexachlorocyclopentadiene			100	24.16		ug/L		24	10 - 110	12	35
Hexachloroethane			100	50.39		ug/L		50	31 - 110	6	35
Indeno(1,2,3-cd)pyrene			100	76.75		ug/L		77	37 - 150	14	35
Isophorone			100	86.73		ug/L		87	50 - 125	9	35
Naphthalene			100	56.21		ug/L		56	38 - 110	12	35
Nitrobenzene			100	75.35		ug/L		75	47 - 116	18	35
N-Nitrosodimethylamine			100	65.52		ug/L		66	37 - 110	13	35
N-Nitrosodi-n-propylamine			100	91.91		ug/L		92	45 - 130	12	35
N-Nitrosodiphenylamine			100	82.89		ug/L		83	49 - 121	9	35
Phenanthrene			100	85.31		ug/L		85	51 - 117	8	35
Pyrene			100	85.30		ug/L		85	48 - 127	10	35
Pyridine			200	79.30		ug/L		40	10 - 110	25	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*92*		*45 - 129*
2-Fluorobiphenyl (Surr)	*74*		*39 - 118*
Terphenyl-d14 (Surr)	*87*		*12 - 144*

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

Lab Sample ID: MB 310-428315/1-A
Matrix: Water
Analysis Batch: 428411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.200		0.200	0.0490	ug/L		07/24/24 16:06	07/26/24 03:39	1
Acenaphthylene	<0.200		0.200	0.0630	ug/L		07/24/24 16:06	07/26/24 03:39	1
Anthracene	<0.200		0.200	0.0610	ug/L		07/24/24 16:06	07/26/24 03:39	1
Benzo[a]anthracene	<0.200		0.200	0.0860	ug/L		07/24/24 16:06	07/26/24 03:39	1
Benzo[a]pyrene	<0.200		0.200	0.120	ug/L		07/24/24 16:06	07/26/24 03:39	1
Benzo[b]fluoranthene	<0.200		0.200	0.100	ug/L		07/24/24 16:06	07/26/24 03:39	1
Benzo[g,h,i]perylene	<0.200		0.200	0.120	ug/L		07/24/24 16:06	07/26/24 03:39	1
Benzo[k]fluoranthene	<0.200		0.200	0.110	ug/L		07/24/24 16:06	07/26/24 03:39	1
Chrysene	<0.200		0.200	0.0730	ug/L		07/24/24 16:06	07/26/24 03:39	1
Dibenz(a,h)anthracene	<0.200		0.200	0.130	ug/L		07/24/24 16:06	07/26/24 03:39	1
Fluoranthene	<0.200		0.200	0.120	ug/L		07/24/24 16:06	07/26/24 03:39	1
Fluorene	<0.200		0.200	0.0430	ug/L		07/24/24 16:06	07/26/24 03:39	1
Indeno[1,2,3-cd]pyrene	<0.200		0.200	0.110	ug/L		07/24/24 16:06	07/26/24 03:39	1
Naphthalene	<0.500		0.500	0.260	ug/L		07/24/24 16:06	07/26/24 03:39	1
Phenanthrene	<0.200		0.200	0.100	ug/L		07/24/24 16:06	07/26/24 03:39	1
Pyrene	<0.200		0.200	0.0940	ug/L		07/24/24 16:06	07/26/24 03:39	1

Lab Sample ID: LCS 310-428315/2-A
Matrix: Water
Analysis Batch: 428411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428315

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acenaphthene			2.00	1.184		ug/L		59	43 - 116		

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

Lab Sample ID: LCS 310-428315/2-A
Matrix: Water
Analysis Batch: 428411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	2.00	1.200		ug/L		60	50 - 110
Anthracene	2.00	1.352		ug/L		68	27 - 126
Benzo[a]anthracene	2.00	1.454		ug/L		73	46 - 133
Benzo[a]pyrene	2.00	1.466		ug/L		73	35 - 115
Benzo[b]fluoranthene	2.00	1.337		ug/L		67	46 - 131
Benzo[g,h,i]perylene	2.00	1.788		ug/L		89	21 - 150
Benzo[k]fluoranthene	2.00	1.436		ug/L		72	42 - 135
Chrysene	2.00	1.485		ug/L		74	45 - 129
Dibenz(a,h)anthracene	2.00	1.677		ug/L		84	30 - 147
Fluoranthene	2.00	1.377		ug/L		69	33 - 132
Fluorene	2.00	1.223		ug/L		61	48 - 120
Indeno[1,2,3-cd]pyrene	2.00	1.802		ug/L		90	30 - 150
Naphthalene	2.00	1.067		ug/L		53	44 - 110
Phenanthrene	2.00	1.351		ug/L		68	36 - 132
Pyrene	2.00	1.358		ug/L		68	35 - 129

Lab Sample ID: LCSD 310-428315/3-A
Matrix: Water
Analysis Batch: 428411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 428315

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	2.00	1.254		ug/L		63	43 - 116	6	35
Acenaphthylene	2.00	1.262		ug/L		63	50 - 110	5	35
Anthracene	2.00	1.352		ug/L		68	27 - 126	0	35
Benzo[a]anthracene	2.00	1.540		ug/L		77	46 - 133	6	35
Benzo[a]pyrene	2.00	1.477		ug/L		74	35 - 115	1	35
Benzo[b]fluoranthene	2.00	1.417		ug/L		71	46 - 131	6	35
Benzo[g,h,i]perylene	2.00	1.734		ug/L		87	21 - 150	3	35
Benzo[k]fluoranthene	2.00	1.562		ug/L		78	42 - 135	8	35
Chrysene	2.00	1.578		ug/L		79	45 - 129	6	35
Dibenz(a,h)anthracene	2.00	1.698		ug/L		85	30 - 147	1	35
Fluoranthene	2.00	1.605		ug/L		80	33 - 132	15	35
Fluorene	2.00	1.328		ug/L		66	48 - 120	8	35
Indeno[1,2,3-cd]pyrene	2.00	1.759		ug/L		88	30 - 150	2	35
Naphthalene	2.00	1.126		ug/L		56	44 - 110	5	35
Phenanthrene	2.00	1.370		ug/L		68	36 - 132	1	35
Pyrene	2.00	1.596		ug/L		80	35 - 129	16	35

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-429371/3
Matrix: Water
Analysis Batch: 429371

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			08/01/24 17:59	1
Sulfate	<1.00		1.00	0.420	mg/L			08/01/24 17:59	1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 310-429371/4
Matrix: Water
Analysis Batch: 429371

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.476		mg/L		95	90 - 110		
Sulfate			10.0	9.830		mg/L		98	90 - 110		

Lab Sample ID: 310-286332-1 MS
Matrix: Water
Analysis Batch: 429371

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	183		50.0	231.2		mg/L		96	80 - 120		
Sulfate	33.0		50.0	81.00		mg/L		96	80 - 120		

Lab Sample ID: 310-286332-1 MSD
Matrix: Water
Analysis Batch: 429371

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	183		50.0	230.8		mg/L		95	80 - 120	0	15
Sulfate	33.0		50.0	79.97		mg/L		94	80 - 120	1	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-428195/1-A
Matrix: Water
Analysis Batch: 428438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/24/24 09:30	07/25/24 12:52	1
Boron	<0.100		0.100	0.0760	mg/L		07/24/24 09:30	07/25/24 12:52	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/24/24 09:30	07/25/24 12:52	1
Iron	<0.100		0.100	0.0360	mg/L		07/24/24 09:30	07/25/24 12:52	1
Magnesium	0.2361	J	0.500	0.150	mg/L		07/24/24 09:30	07/25/24 12:52	1
Manganese	<0.0100		0.0100	0.00360	mg/L		07/24/24 09:30	07/25/24 12:52	1

Lab Sample ID: LCS 310-428195/2-A
Matrix: Water
Analysis Batch: 428438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428195

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.200	0.2061		mg/L		103	80 - 120		
Boron			0.200	0.1758		mg/L		88	80 - 120		
Cobalt			0.100	0.1047		mg/L		105	80 - 120		
Iron			0.200	0.1890		mg/L		94	80 - 120		
Magnesium			2.00	2.115		mg/L		106	80 - 120		
Manganese			0.100	0.09622		mg/L		96	80 - 120		

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

Lab Sample ID: 310-286332-1 MS
Matrix: Water
Analysis Batch: 428438

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 428195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.00200		0.200	0.2148		mg/L		107	75 - 125
Boron	0.0859	J	0.200	0.3095		mg/L		112	75 - 125
Cobalt	<0.000500		0.100	0.1040		mg/L		104	75 - 125
Iron	<0.100		0.200	0.2099		mg/L		105	75 - 125
Magnesium	50.1	B	2.00	51.01	4	mg/L		47	75 - 125
Manganese	<0.0100		0.100	0.09620		mg/L		96	75 - 125

Lab Sample ID: 310-286332-1 MS
Matrix: Water
Analysis Batch: 428656

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 428195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	<0.00500		0.200	0.2005		mg/L		100	75 - 125

Lab Sample ID: 310-286332-1 MSD
Matrix: Water
Analysis Batch: 428438

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 428195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<0.00200		0.200	0.2192		mg/L		110	75 - 125	2	20
Boron	0.0859	J	0.200	0.3226		mg/L		118	75 - 125	4	20
Cobalt	<0.000500		0.100	0.1043		mg/L		104	75 - 125	0	20
Iron	<0.100		0.200	0.2171		mg/L		109	75 - 125	3	20
Magnesium	50.1	B	2.00	51.47	4	mg/L		70	75 - 125	1	20
Manganese	<0.0100		0.100	0.09670		mg/L		97	75 - 125	1	20

Lab Sample ID: 310-286332-1 MSD
Matrix: Water
Analysis Batch: 428656

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 428195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	<0.00500		0.200	0.1996		mg/L		100	75 - 125	0	20

Lab Sample ID: 310-286332-11 DU
Matrix: Water
Analysis Batch: 428438

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 428195

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0704		0.06861		mg/L		3	20
Cobalt	0.00175		0.001690		mg/L		4	20
Iron	25.0		24.21		mg/L		3	20
Magnesium	77.8	B	74.27		mg/L		5	20
Manganese	0.930		0.7931		mg/L		16	20

Lab Sample ID: 310-286332-11 DU
Matrix: Water
Analysis Batch: 428656

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 428195

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	2.41		2.383		mg/L		1	20

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

Lab Sample ID: 310-286332-11 DU — **Client Sample ID: MW-12**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 428656 — **Prep Batch: 428195**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	0.00638		0.006181		mg/L		3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-429045/17 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 429045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.200		0.200	0.100	mg/L			07/31/24 17:00	1

Lab Sample ID: LCS 310-429045/18 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 429045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	8.55	8.114		mg/L		95	90 - 110

Lab Sample ID: 310-286332-1 MS — **Client Sample ID: MW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 429045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.200	F1	1.00	0.9049		mg/L		90	90 - 110

Lab Sample ID: 310-286332-1 MSD — **Client Sample ID: MW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 429045

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.200	F1	1.00	0.8097	F1	mg/L		81	90 - 110	11	13

Method: 5220D LL - COD

Lab Sample ID: MB 310-428377/32 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 428377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.80	mg/L			07/25/24 09:46	1

Lab Sample ID: MB 310-428377/60 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 428377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.80	mg/L			07/25/24 09:46	1

Method: 5220D LL - COD (Continued)

Lab Sample ID: LCS 310-428377/33
Matrix: Water
Analysis Batch: 428377

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	127.2		mg/L		101	85 - 110

Lab Sample ID: LCS 310-428377/63
Matrix: Water
Analysis Batch: 428377

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	128.2		mg/L		102	85 - 110

Lab Sample ID: 310-286332-6 MS
Matrix: Water
Analysis Batch: 428377

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	217		500	823.2		mg/L		121	83 - 146

Lab Sample ID: 310-286332-6 MSD
Matrix: Water
Analysis Batch: 428377

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	217		500	805.7		mg/L		118	83 - 146	2	18

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 310-428198/1-A
Matrix: Water
Analysis Batch: 428322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<0.0200		0.0200	0.0100	mg/L		07/24/24 08:44	07/24/24 17:30	1

Lab Sample ID: LCS 310-428198/2-A
Matrix: Water
Analysis Batch: 428322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.100	0.09615		mg/L		96	90 - 110

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-428035/1
Matrix: Water
Analysis Batch: 428035

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			07/22/24 16:45	1

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: LCS 310-428035/2
Matrix: Water
Analysis Batch: 428035

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	97.00		mg/L		97	81 - 116

Lab Sample ID: 310-286332-5 DU
Matrix: Water
Analysis Batch: 428035

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	87.3		91.33		mg/L		4	35

Lab Sample ID: MB 310-428076/1
Matrix: Water
Analysis Batch: 428076

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			07/23/24 08:42	1

Lab Sample ID: LCS 310-428076/2
Matrix: Water
Analysis Batch: 428076

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	95.00		mg/L		95	81 - 116

Lab Sample ID: MB 310-428124/1
Matrix: Water
Analysis Batch: 428124

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			07/23/24 11:38	1

Lab Sample ID: LCS 310-428124/2
Matrix: Water
Analysis Batch: 428124

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	89.00		mg/L		89	81 - 116

Lab Sample ID: 310-286332-12 DU
Matrix: Water
Analysis Batch: 428124

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	79.3		79.67		mg/L		0.4	35

Lab Sample ID: MB 310-428161/1
Matrix: Water
Analysis Batch: 428161

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			07/23/24 16:15	1

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: LCS 310-428161/2
Matrix: Water
Analysis Batch: 428161

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	97.00		mg/L		97	81 - 116

GC/MS VOA

Analysis Batch: 428134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-10	MW-11	Total/NA	Water	8260D	
310-286332-11	MW-12	Total/NA	Water	8260D	
310-286332-26	Trip Blank 1	Total/NA	Water	8260D	
310-286332-28	Trip Blank 3	Total/NA	Water	8260D	
MB 310-428134/5	Method Blank	Total/NA	Water	8260D	
LCS 310-428134/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-428134/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 428392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-8	MW-9	Total/NA	Water	8260D	
MB 310-428392/7	Method Blank	Total/NA	Water	8260D	
LCS 310-428392/10	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-428392/8	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 428138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-7	MW-7	Total/NA	Water	3510C	
310-286332-8	MW-9	Total/NA	Water	3510C	
MB 310-428138/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-428138/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-428138/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 428188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-7	MW-7	Total/NA	Water	8270E	428138
310-286332-8	MW-9	Total/NA	Water	8270E	428138
MB 310-428138/1-A	Method Blank	Total/NA	Water	8270E	428138
LCS 310-428138/2-A	Lab Control Sample	Total/NA	Water	8270E	428138
LCSD 310-428138/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	428138

Prep Batch: 428315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-8	MW-9	Total/NA	Water	3510C	
310-286332-10	MW-11	Total/NA	Water	3510C	
MB 310-428315/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-428315/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-428315/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 428411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-8	MW-9	Total/NA	Water	8270E SIM	428315
310-286332-10	MW-11	Total/NA	Water	8270E SIM	428315
MB 310-428315/1-A	Method Blank	Total/NA	Water	8270E SIM	428315
LCS 310-428315/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	428315
LCSD 310-428315/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	428315

QC Association Summary

Client: SCS Engineers
Job ID: 310-286332-1
Project/Site: Archer Daniels Midland Landfill

HPLC/IC

Analysis Batch: 429371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-1	MW-1	Total/NA	Water	9056A	
310-286332-2	MW-6	Total/NA	Water	9056A	
310-286332-3	MW-17	Total/NA	Water	9056A	
310-286332-4	MW-2	Total/NA	Water	9056A	
310-286332-5	MW-3	Total/NA	Water	9056A	
310-286332-6	MW-5	Total/NA	Water	9056A	
310-286332-7	MW-7	Total/NA	Water	9056A	
310-286332-8	MW-9	Total/NA	Water	9056A	
310-286332-9	MW-10	Total/NA	Water	9056A	
310-286332-10	MW-11	Total/NA	Water	9056A	
310-286332-11	MW-12	Total/NA	Water	9056A	
310-286332-12	MW-13	Total/NA	Water	9056A	
310-286332-12	MW-13	Total/NA	Water	9056A	
310-286332-13	MW-14	Total/NA	Water	9056A	
310-286332-14	MW-18	Total/NA	Water	9056A	
310-286332-15	MW-4	Total/NA	Water	9056A	
310-286332-16	MW-8	Total/NA	Water	9056A	
310-286332-17	MW-16	Total/NA	Water	9056A	
310-286332-18	MW-D	Total/NA	Water	9056A	
310-286332-19	MW-15	Total/NA	Water	9056A	
MB 310-429371/3	Method Blank	Total/NA	Water	9056A	
LCS 310-429371/4	Lab Control Sample	Total/NA	Water	9056A	
310-286332-1 MS	MW-1	Total/NA	Water	9056A	
310-286332-1 MSD	MW-1	Total/NA	Water	9056A	

Metals

Prep Batch: 428195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-1	MW-1	Total/NA	Water	3005A	
310-286332-2	MW-6	Total/NA	Water	3005A	
310-286332-3	MW-17	Total/NA	Water	3005A	
310-286332-4	MW-2	Total/NA	Water	3005A	
310-286332-5	MW-3	Total/NA	Water	3005A	
310-286332-6	MW-5	Total/NA	Water	3005A	
310-286332-7	MW-7	Total/NA	Water	3005A	
310-286332-8	MW-9	Total/NA	Water	3005A	
310-286332-9	MW-10	Total/NA	Water	3005A	
310-286332-10	MW-11	Total/NA	Water	3005A	
310-286332-11	MW-12	Total/NA	Water	3005A	
310-286332-12	MW-13	Total/NA	Water	3005A	
310-286332-13	MW-14	Total/NA	Water	3005A	
310-286332-14	MW-18	Total/NA	Water	3005A	
310-286332-15	MW-4	Total/NA	Water	3005A	
310-286332-16	MW-8	Total/NA	Water	3005A	
310-286332-17	MW-16	Total/NA	Water	3005A	
310-286332-18	MW-D	Total/NA	Water	3005A	
310-286332-19	MW-15	Total/NA	Water	3005A	
MB 310-428195/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-428195/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-286332-1 MS	MW-1	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 428195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-1 MSD	MW-1	Total/NA	Water	3005A	
310-286332-11 DU	MW-12	Total/NA	Water	3005A	

Analysis Batch: 428438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-1	MW-1	Total/NA	Water	6020B	428195
310-286332-2	MW-6	Total/NA	Water	6020B	428195
310-286332-3	MW-17	Total/NA	Water	6020B	428195
310-286332-4	MW-2	Total/NA	Water	6020B	428195
310-286332-5	MW-3	Total/NA	Water	6020B	428195
310-286332-6	MW-5	Total/NA	Water	6020B	428195
310-286332-7	MW-7	Total/NA	Water	6020B	428195
310-286332-8	MW-9	Total/NA	Water	6020B	428195
310-286332-9	MW-10	Total/NA	Water	6020B	428195
310-286332-10	MW-11	Total/NA	Water	6020B	428195
310-286332-11	MW-12	Total/NA	Water	6020B	428195
310-286332-12	MW-13	Total/NA	Water	6020B	428195
310-286332-13	MW-14	Total/NA	Water	6020B	428195
310-286332-14	MW-18	Total/NA	Water	6020B	428195
310-286332-15	MW-4	Total/NA	Water	6020B	428195
310-286332-16	MW-8	Total/NA	Water	6020B	428195
310-286332-17	MW-16	Total/NA	Water	6020B	428195
310-286332-18	MW-D	Total/NA	Water	6020B	428195
310-286332-19	MW-15	Total/NA	Water	6020B	428195
MB 310-428195/1-A	Method Blank	Total/NA	Water	6020B	428195
LCS 310-428195/2-A	Lab Control Sample	Total/NA	Water	6020B	428195
310-286332-1 MS	MW-1	Total/NA	Water	6020B	428195
310-286332-1 MSD	MW-1	Total/NA	Water	6020B	428195
310-286332-11 DU	MW-12	Total/NA	Water	6020B	428195

Analysis Batch: 428656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-1	MW-1	Total/NA	Water	6020B	428195
310-286332-2	MW-6	Total/NA	Water	6020B	428195
310-286332-3	MW-17	Total/NA	Water	6020B	428195
310-286332-4	MW-2	Total/NA	Water	6020B	428195
310-286332-5	MW-3	Total/NA	Water	6020B	428195
310-286332-6	MW-5	Total/NA	Water	6020B	428195
310-286332-7	MW-7	Total/NA	Water	6020B	428195
310-286332-8	MW-9	Total/NA	Water	6020B	428195
310-286332-9	MW-10	Total/NA	Water	6020B	428195
310-286332-10	MW-11	Total/NA	Water	6020B	428195
310-286332-11	MW-12	Total/NA	Water	6020B	428195
310-286332-12	MW-13	Total/NA	Water	6020B	428195
310-286332-13	MW-14	Total/NA	Water	6020B	428195
310-286332-14	MW-18	Total/NA	Water	6020B	428195
310-286332-15	MW-4	Total/NA	Water	6020B	428195
310-286332-16	MW-8	Total/NA	Water	6020B	428195
310-286332-17	MW-16	Total/NA	Water	6020B	428195
310-286332-18	MW-D	Total/NA	Water	6020B	428195
310-286332-19	MW-15	Total/NA	Water	6020B	428195

Metals (Continued)

Analysis Batch: 428656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-1 MS	MW-1	Total/NA	Water	6020B	428195
310-286332-1 MSD	MW-1	Total/NA	Water	6020B	428195
310-286332-11 DU	MW-12	Total/NA	Water	6020B	428195

Analysis Batch: 428734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-8	MW-9	Total/NA	Water	6020B	428195

Analysis Batch: 429027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-8	MW-9	Total/NA	Water	6020B	428195

General Chemistry

Analysis Batch: 428035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-5	MW-3	Total/NA	Water	I-3765-85	
310-286332-6	MW-5	Total/NA	Water	I-3765-85	
310-286332-7	MW-7	Total/NA	Water	I-3765-85	
310-286332-15	MW-4	Total/NA	Water	I-3765-85	
310-286332-16	MW-8	Total/NA	Water	I-3765-85	
310-286332-18	MW-D	Total/NA	Water	I-3765-85	
MB 310-428035/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-428035/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-286332-5 DU	MW-3	Total/NA	Water	I-3765-85	

Analysis Batch: 428076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-1	MW-1	Total/NA	Water	I-3765-85	
310-286332-10	MW-11	Total/NA	Water	I-3765-85	
310-286332-11	MW-12	Total/NA	Water	I-3765-85	
310-286332-14	MW-18	Total/NA	Water	I-3765-85	
310-286332-19	MW-15	Total/NA	Water	I-3765-85	
MB 310-428076/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-428076/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 428124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-3	MW-17	Total/NA	Water	I-3765-85	
310-286332-4	MW-2	Total/NA	Water	I-3765-85	
310-286332-8	MW-9	Total/NA	Water	I-3765-85	
310-286332-9	MW-10	Total/NA	Water	I-3765-85	
310-286332-12	MW-13	Total/NA	Water	I-3765-85	
310-286332-13	MW-14	Total/NA	Water	I-3765-85	
310-286332-17	MW-16	Total/NA	Water	I-3765-85	
MB 310-428124/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-428124/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-286332-12 DU	MW-13	Total/NA	Water	I-3765-85	

QC Association Summary

Client: SCS Engineers
Job ID: 310-286332-1
Project/Site: Archer Daniels Midland Landfill

General Chemistry

Analysis Batch: 428161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-2	MW-6	Total/NA	Water	I-3765-85	
MB 310-428161/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-428161/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Prep Batch: 428198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-4	MW-2	Total/NA	Water	Distill/Phenol	
310-286332-7	MW-7	Total/NA	Water	Distill/Phenol	
310-286332-8	MW-9	Total/NA	Water	Distill/Phenol	
310-286332-14	MW-18	Total/NA	Water	Distill/Phenol	
MB 310-428198/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 310-428198/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 428322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-4	MW-2	Total/NA	Water	9066	428198
310-286332-7	MW-7	Total/NA	Water	9066	428198
310-286332-8	MW-9	Total/NA	Water	9066	428198
310-286332-14	MW-18	Total/NA	Water	9066	428198
MB 310-428198/1-A	Method Blank	Total/NA	Water	9066	428198
LCS 310-428198/2-A	Lab Control Sample	Total/NA	Water	9066	428198

Analysis Batch: 428377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-1	MW-1	Total/NA	Water	5220D LL	
310-286332-2	MW-6	Total/NA	Water	5220D LL	
310-286332-3	MW-17	Total/NA	Water	5220D LL	
310-286332-4	MW-2	Total/NA	Water	5220D LL	
310-286332-5	MW-3	Total/NA	Water	5220D LL	
310-286332-6	MW-5	Total/NA	Water	5220D LL	
310-286332-7	MW-7	Total/NA	Water	5220D LL	
310-286332-8	MW-9	Total/NA	Water	5220D LL	
310-286332-9	MW-10	Total/NA	Water	5220D LL	
310-286332-10	MW-11	Total/NA	Water	5220D LL	
310-286332-11	MW-12	Total/NA	Water	5220D LL	
310-286332-12	MW-13	Total/NA	Water	5220D LL	
310-286332-13	MW-14	Total/NA	Water	5220D LL	
310-286332-14	MW-18	Total/NA	Water	5220D LL	
310-286332-15	MW-4	Total/NA	Water	5220D LL	
310-286332-16	MW-8	Total/NA	Water	5220D LL	
310-286332-17	MW-16	Total/NA	Water	5220D LL	
310-286332-18	MW-D	Total/NA	Water	5220D LL	
310-286332-19	MW-15	Total/NA	Water	5220D LL	
MB 310-428377/32	Method Blank	Total/NA	Water	5220D LL	
MB 310-428377/60	Method Blank	Total/NA	Water	5220D LL	
LCS 310-428377/33	Lab Control Sample	Total/NA	Water	5220D LL	
LCS 310-428377/63	Lab Control Sample	Total/NA	Water	5220D LL	
310-286332-6 MS	MW-5	Total/NA	Water	5220D LL	
310-286332-6 MSD	MW-5	Total/NA	Water	5220D LL	

QC Association Summary

Client: SCS Engineers
Job ID: 310-286332-1
Project/Site: Archer Daniels Midland Landfill

General Chemistry

Analysis Batch: 429045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286332-1	MW-1	Total/NA	Water	350.1	
310-286332-2	MW-6	Total/NA	Water	350.1	
310-286332-3	MW-17	Total/NA	Water	350.1	
310-286332-4	MW-2	Total/NA	Water	350.1	
310-286332-5	MW-3	Total/NA	Water	350.1	
310-286332-6	MW-5	Total/NA	Water	350.1	
310-286332-7	MW-7	Total/NA	Water	350.1	
310-286332-8	MW-9	Total/NA	Water	350.1	
310-286332-9	MW-10	Total/NA	Water	350.1	
310-286332-10	MW-11	Total/NA	Water	350.1	
310-286332-11	MW-12	Total/NA	Water	350.1	
310-286332-12	MW-13	Total/NA	Water	350.1	
310-286332-13	MW-14	Total/NA	Water	350.1	
310-286332-14	MW-18	Total/NA	Water	350.1	
310-286332-15	MW-4	Total/NA	Water	350.1	
310-286332-16	MW-8	Total/NA	Water	350.1	
310-286332-17	MW-16	Total/NA	Water	350.1	
310-286332-18	MW-D	Total/NA	Water	350.1	
310-286332-19	MW-15	Total/NA	Water	350.1	
MB 310-429045/17	Method Blank	Total/NA	Water	350.1	
LCS 310-429045/18	Lab Control Sample	Total/NA	Water	350.1	
310-286332-1 MS	MW-1	Total/NA	Water	350.1	
310-286332-1 MSD	MW-1	Total/NA	Water	350.1	

Lab Chronicle

Client: SCS Engineers
Job ID: 310-286332-1
Project/Site: Archer Daniels Midland Landfill

Client Sample ID: MW-1
Lab Sample ID: 310-286332-1
Date Collected: 07/17/24 15:02
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 18:55
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 20:13
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 12:57
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:02
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428076	WZC8	EET CF	07/23/24 08:42

Client Sample ID: MW-6
Lab Sample ID: 310-286332-2
Date Collected: 07/18/24 09:14
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	429371	QTZ5	EET CF	08/01/24 19:38
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		4	428656	ZRI4	EET CF	07/26/24 20:24
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:08
Total/NA	Analysis	350.1		37.5	429045	ZJX4	EET CF	07/31/24 18:02
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428161	WZC8	EET CF	07/23/24 16:15

Client Sample ID: MW-17
Lab Sample ID: 310-286332-3
Date Collected: 07/17/24 13:16
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 19:52
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 20:27
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:10
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:04
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428124	WZC8	EET CF	07/23/24 11:38

Client Sample ID: MW-2
Lab Sample ID: 310-286332-4
Date Collected: 07/17/24 15:54
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 20:06

Lab Chronicle

Client: SCS Engineers
Job ID: 310-286332-1
Project/Site: Archer Daniels Midland Landfill

Client Sample ID: MW-2
Lab Sample ID: 310-286332-4
Date Collected: 07/17/24 15:54
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 20:31
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:21
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:05
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Prep	Distill/Phenol			428198	A3GU	EET CF	07/24/24 08:44
Total/NA	Analysis	9066		1	428322	ZJX4	EET CF	07/24/24 17:33
Total/NA	Analysis	I-3765-85		1	428124	WZC8	EET CF	07/23/24 11:38

Client Sample ID: MW-3
Lab Sample ID: 310-286332-5
Date Collected: 07/16/24 14:25
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	429371	QTZ5	EET CF	08/01/24 20:20
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 20:35
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:24
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:06
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428035	ENB7	EET CF	07/22/24 16:45

Client Sample ID: MW-5
Lab Sample ID: 310-286332-6
Date Collected: 07/16/24 16:17
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 20:34
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		7	428656	ZRI4	EET CF	07/26/24 20:38
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:26
Total/NA	Analysis	350.1		37.5	429045	ZJX4	EET CF	07/31/24 18:02
Total/NA	Analysis	5220D LL		10	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428035	ENB7	EET CF	07/22/24 16:45

Lab Chronicle

Client: SCS Engineers
Job ID: 310-286332-1
Project/Site: Archer Daniels Midland Landfill

Client Sample ID: MW-7
Lab Sample ID: 310-286332-7
Date Collected: 07/16/24 17:23
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			428138	L5FG	EET CF	07/23/24 12:44
Total/NA	Analysis	8270E		1	428188	L0FS	EET CF	07/24/24 18:46
Total/NA	Analysis	9056A		5	429371	QTZ5	EET CF	08/01/24 20:48
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		10	428656	ZRI4	EET CF	07/26/24 20:42
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:28
Total/NA	Analysis	350.1		100	429045	ZJX4	EET CF	07/31/24 18:50
Total/NA	Analysis	5220D LL		10	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Prep	Distill/Phenol			428198	A3GU	EET CF	07/24/24 08:44
Total/NA	Analysis	9066		1	428322	ZJX4	EET CF	07/24/24 17:33
Total/NA	Analysis	I-3765-85		1	428035	ENB7	EET CF	07/22/24 16:45

Client Sample ID: MW-9
Lab Sample ID: 310-286332-8
Date Collected: 07/17/24 19:01
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	428392	WSE8	EET CF	07/25/24 13:36
Total/NA	Prep	3510C			428138	L5FG	EET CF	07/23/24 12:44
Total/NA	Analysis	8270E		1	428188	L0FS	EET CF	07/24/24 19:12
Total/NA	Prep	3510C			428315	L5FG	EET CF	07/24/24 16:06
Total/NA	Analysis	8270E SIM		1	428411	V7YZ	EET CF	07/26/24 05:55
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 21:02
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		4	428656	ZRI4	EET CF	07/26/24 20:46
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:30
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		7	428734	NFT2	EET CF	07/29/24 11:41
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		7	429027	NFT2	EET CF	07/31/24 14:01
Total/NA	Analysis	350.1		100	429045	ZJX4	EET CF	07/31/24 18:51
Total/NA	Analysis	5220D LL		10	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Prep	Distill/Phenol			428198	A3GU	EET CF	07/24/24 08:44
Total/NA	Analysis	9066		1	428322	ZJX4	EET CF	07/24/24 17:34
Total/NA	Analysis	I-3765-85		1	428124	WZC8	EET CF	07/23/24 11:38

Client Sample ID: MW-10
Lab Sample ID: 310-286332-9
Date Collected: 07/17/24 18:03
Matrix: Water
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 21:44

Lab Chronicle

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-10
Date Collected: 07/17/24 18:03
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 21:04
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:33
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:11
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428124	WZC8	EET CF	07/23/24 11:38

Client Sample ID: MW-11
Date Collected: 07/17/24 11:52
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	428134	WSE8	EET CF	07/24/24 12:32
Total/NA	Prep	3510C			428315	L5FG	EET CF	07/24/24 16:06
Total/NA	Analysis	8270E SIM		1	428411	V7YZ	EET CF	07/26/24 06:14
Total/NA	Analysis	9056A		5	429371	QTZ5	EET CF	08/01/24 21:58
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		4	428656	ZRI4	EET CF	07/26/24 21:08
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:35
Total/NA	Analysis	350.1		9.38	429045	ZJX4	EET CF	07/31/24 17:41
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428076	WZC8	EET CF	07/23/24 08:42

Client Sample ID: MW-12
Date Collected: 07/17/24 10:51
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	428134	WSE8	EET CF	07/24/24 12:10
Total/NA	Analysis	9056A		5	429371	QTZ5	EET CF	08/01/24 22:12
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 21:11
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:37
Total/NA	Analysis	350.1		9.38	429045	ZJX4	EET CF	07/31/24 17:42
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428076	WZC8	EET CF	07/23/24 08:42

Lab Chronicle

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-13

Date Collected: 07/17/24 16:58
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 22:27
Total/NA	Analysis	9056A		5	429371	QTZ5	EET CF	08/02/24 13:07
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		4	428656	ZRI4	EET CF	07/26/24 21:18
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:41
Total/NA	Analysis	350.1		9.38	429045	ZJX4	EET CF	07/31/24 17:43
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428124	WZC8	EET CF	07/23/24 11:38

Client Sample ID: MW-14

Date Collected: 07/17/24 09:51
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 22:41
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		4	428656	ZRI4	EET CF	07/26/24 21:22
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:53
Total/NA	Analysis	350.1		9.38	429045	ZJX4	EET CF	07/31/24 17:43
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428124	WZC8	EET CF	07/23/24 11:38

Client Sample ID: MW-18

Date Collected: 07/17/24 14:11
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 22:55
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 21:26
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:55
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:14
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Prep	Distill/Phenol			428198	A3GU	EET CF	07/24/24 08:44
Total/NA	Analysis	9066		1	428322	ZJX4	EET CF	07/24/24 17:35
Total/NA	Analysis	I-3765-85		1	428076	WZC8	EET CF	07/23/24 08:42

Lab Chronicle

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-4

Lab Sample ID: 310-286332-15
Matrix: Water
Date Collected: 07/16/24 15:26
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 23:09
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 21:29
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:57
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:16
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428035	ENB7	EET CF	07/22/24 16:45

Client Sample ID: MW-8

Lab Sample ID: 310-286332-16
Matrix: Water
Date Collected: 07/16/24 18:24
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 23:23
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 21:33
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 13:59
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:16
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428035	ENB7	EET CF	07/22/24 16:45

Client Sample ID: MW-16

Lab Sample ID: 310-286332-17
Matrix: Water
Date Collected: 07/17/24 12:33
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 23:37
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 21:37
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 14:02
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:19
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428124	WZC8	EET CF	07/23/24 11:38

Client Sample ID: MW-D

Lab Sample ID: 310-286332-18
Matrix: Water
Date Collected: 07/16/24 15:26
Date Received: 07/19/24 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	429371	QTZ5	EET CF	08/01/24 23:51

Lab Chronicle

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Client Sample ID: MW-D
Date Collected: 07/16/24 15:26
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 21:55
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 14:04
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:19
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428035	ENB7	EET CF	07/22/24 16:45

Client Sample ID: MW-15
Date Collected: 07/17/24 09:13
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	429371	QTZ5	EET CF	08/02/24 00:05
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428656	ZRI4	EET CF	07/26/24 21:59
Total/NA	Prep	3005A			428195	QTZ5	EET CF	07/24/24 09:30
Total/NA	Analysis	6020B		1	428438	NFT2	EET CF	07/25/24 14:06
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 17:21
Total/NA	Analysis	5220D LL		1	428377	ENB7	EET CF	07/25/24 09:46
Total/NA	Analysis	I-3765-85		1	428076	WZC8	EET CF	07/23/24 08:42

Client Sample ID: Trip Blank 1
Date Collected: 07/17/24 00:00
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	428134	WSE8	EET CF	07/24/24 06:32

Client Sample ID: Trip Blank 3
Date Collected: 07/17/24 00:00
Date Received: 07/19/24 17:30

Lab Sample ID: 310-286332-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	428134	WSE8	EET CF	07/24/24 06:54

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: 310-286332-1
Project/Site: Archer Daniels Midland Landfill

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,2,3-Trichlorobenzene
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	Bromobenzene
8260D		Water	Hexane
8260D		Water	p-Isopropyltoluene
8260D		Water	sec-Butylbenzene
8260D		Water	tert-Butylbenzene

Method Summary

Client: SCS Engineers
Project/Site: Archer Daniels Midland Landfill

Job ID: 310-286332-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET CF
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
5220D LL	COD	SM	EET CF
9066	Phenolics, Total Recoverable	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
Distill/Phenol	Distillation, Phenolics	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

eurofins | Environment Testing America

310-286332 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W Des Moines STATE IA Project: ADM Landfill

Receipt Information

Date/Time Received: DATE 7-19-24 TIME 1730 Received By: HED

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 4

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

TB-1 MW-9 MW-11

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): 1.4 Corrected Temp (°C): 1.4

Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 7-19-24 | TIME 1730 | Received By: HED

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 4

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

TB-2 none

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): 3.8 | Corrected Temp (°C): 3.8

Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 7-19-24 TIME 1730 | Received By: HED

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 4

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

TB-3 MW-12

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): 5.0 | Corrected Temp (°C): 5.0

Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 7-19-24 | TIME 1730 | Received By: HED

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 4 of 4

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

TB-4 none

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): 1.4 | Corrected Temp (°C): 1.4

• Sample Container Temperature

Container(s) used:	CONTAINER 1	CONTAINER 2
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

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

eurofins

Client Information	Sampler: Michael Morgan	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No.: 310-94408-25914.1
Client Contact: Kevin Jensen	Phone: 715 0_ [illegible]	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 1 of 3
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: 515-631-6154(Tel)	PO #: Purchase Order not required			
Email: kjensen@scsengineers com	WO #:			
Project Name: ADM Landfill 2024	Project #: 31007255			
Site: ADM Land - Clinton	SSOW#:			Other:

Analysis Requested

Preservation Codes:
S - H2SO4
N - None
D - HNO3
A - HCL

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)	350.1, 5220D_LL	300_ORGFM_28D - Chloride and Sulfate	6020B - 7 Metals	I_3765_85 - Residue, Non-filterable (TSS)	9056A_ORGFM_28D - Chloride and Sulfate	6020B - 6 Metals	6020B - 4 Metals	6020B - 5 Metals	420.4 - Phenolics, Total Recoverable	8270E - Bis (2-ethylhexyl)	8260D - Volatile Standard Sublist	8270E, 8270E_SIM	8270E_SIM - PAHs	Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	S	N	D	N	N	D	D	D	S	N	A	N	N	X	
MW-1	7/7/24	1502		Water																	
MW-6	7/8/24	9 4		Water																	
MW-17	7/7/24	3 6		Water																	
MW-2	7/7/24	1554		Water																	
MW-3	7/ /24	425		Water																	
MW-5	7/ 0/24	[illegible]		Water																	
MW-7	7/6/24	723		Water																	
MW-9	7/7/24	1 0		Water																	
MW-10	7/7/24	[illegible]		Water																	
MW-11	7/7/24	1 2		Water																	
MW-12	7/ /24	0		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: Michael Morgan [signature]	Date/Time: 7/ / 4 AM	Company: SCS	Received by: Erink		Date/Time: 7/19/24 11:00	Company: Eurofins
Relinquished by:	Date/Time:	Company:	Received by:		Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by: [signature]		Date/Time: 7-19-24 1730	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks:			

Ver 04/02/2024

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

eurofins

Client Information	Sampler: MICHAEL MCLAN	Lab PM: Yang, Mary E	Carrier Tracking No(s).	COC No: 310-94408-25914 2
Client Contact: Kevin Jensen	Phone: 563-427-8	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 2 of 3
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: 515-631-6154(Tel)	PO #: Purchase Order not required			
Email: kjensen@scsengineers.com	WO #:			
Project Name: ADM Landfill 2024	Project #: 31007255			
Site: ADM LANDF C - CLINTON	SSOW#:			

Analysis Requested

Preservation Codes.
S - H2SO4
N - None
D - HNO3
A - HCL
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)	360.1, 6220D_LL	300_ORGFM_28D - Chloride and Sulfate	6020B - 7 Metals	I_3765_85 - Residue, Non-filterable (TSS)	9056A_ORGFM_28D - Chloride and Sulfate	6020B - 6 Metals	6020B - 4 Metals	6020B - 5 Metals	420.4 - Phenolics, Total Recoverable	8270E - Bis (2-ethylhexyl)	8260D - Volatile Standard Sublist	8270E, 8270E_SIM	8270E_SIM - PAHs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	D	N	N	D	D	D	S	N	A	N	N		
MW-13	7, 7 24	6 [illegible]		Water																	
MW-14	7/7/24	9 5		Water																	
MW-18	7 7 24	14		Water																	
MW-4	7/ 6, 24	5 20		Water																	
MW-8	7/ 0, 24	14 24		Water																	
MW-16	7, 7 24	2 30		Water																	
MW-D	7/ 0, 24	15 26		Water																	
MW-15	7/ 7, 24	9 3		Water																	
MW-2	7 7 24	[illegible]		Water																	
MW-18	7, 7 24	4 1		Water																	
MW-7	7, 6 24	17 23		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
MICHAEL MCLAN	7 9 24 08 AM	SCS	Erin	7/9/24 11:00	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7-9-24 1730	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone. 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

TestAmerica Des Moin 214

eurofins

Client Information	Sampler: MICHAEL MORGAN	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-94408-25914 3
Client Contact: Kevin Jensen	Phone: 515-631-6154	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin.	Page: Page 3 of 3
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: 515-631-6154(Tel)	PO #: Purchase Order not required			
Email: kjensen@scsengineers com	WO #:			
Project Name: ADM Landfill 2024	Project #: 31007255			
Site: ADM LANDFILL - CLINTON	SSOW#:			

Analysis Requested

Preservation Codes:
S - H2SO4
N - None
D - HNO3
A - HCL
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)	350.1, 6220D_LL	300_ORGFM_28D - Chloride and Sulfate	6020B - 7 Metals	I_3765_85 - Residue, Non-filterable (TSS)	9056A_ORGFM_28D - Chloride and Sulfate	6020B - 6 Metals	6020B - 4 Metals	6020B - 6 Metals	420.4 - Phenolics, Total Recoverable	8270E - Bis (2-ethylhexyl)	8260D - Volatile Standard Sublist	8270E, 8270E_SIM	8270E_SIM - PAHs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	D	N	N	D	D	D	S	N	A	N	N		
MW-9	7/7/24	9:01		Water																	
MW-11	7/7/24	11:52		Water																	
MW-12	7/7/24	0:3		Water																	
TRIPBLANK				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
MICHAEL MORGAN	7/9/24 9:00 AM	SCS		7/19/24 11:00	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7-19-24 1730	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-286332-1

Login Number: 286332

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Miller, Samuel

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.	False	Some samples are listed on COC twice, samples weren't marked for analysis
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	

Appendix B-2

Data Validation

Completed by: Semir Omerovic
Lab Report Date: 5/17/2024
Site Name: ADM-Clinton Landfill
Lab Report Number: 310-278908-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation		X		The following samples were recieved with insufficient preservation: MW-7 and Wet Well Leachate. The maximum amount of preservation was added by the laboratory, but the sample remained strongly basic. No further attempt was made to acidify the sample, as it would have diluted the sample. This does not meet regulatory requirements.
Condition	X			
Reporting Limits		X		Method 9056A: The following sample was diluted due to the nature of the sample matrix: MW-7 and MW-11. Elevated reporting limits are provided.
Case Narrative	X			
Holding Times	X			
Analytical Sensitivty and Blanks				
Method Blank Detections		X		Bis(2-ethylhexyl)phthalate was detected in the method blank for analytical batch 419071.
Trip Blank Detections			X	
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD		X		MS & MSD results were below recovery limit for ammonia associated with analysis batch 418900.
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			Method 300: The following sample was analyzed outside of analytical holding time due to QC failure: Wet Well Leachate.
Field Duplicates		X		The duplicate was collected from MW-16 during the spring 2024 event. All parameters had <50% relative difference, with the exception of chloride and sulfate. Constituents with J flag concentrations were not considered for the duplicate sample comparisons.

Completed by: Semir Omerovic

Lab Report Date: 8/27/2024

Site Name: ADM-Clinton Landfill

Lab Report Number: 310-286332-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation		X		Method 8260D: The following sample was collected in properly preserved vial; however the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for the unpreserved samples but within the 14-day holding time specificed for preserved samples: MW-9.
Condition	X			
Reporting Limits		X		Method 9056A: The following samples were diluted due to the nature of the sample matrix: MW-3, MW-7, MW-11 and MW-13. Elevated reporting limits are provided. Method 8270E_SIM: Internal standard (ISTD) response for the following samples were outside of acceptance limits: MW-9 and MW-11. The ISTD failed low causing the data to be biased high. The affected analytes were non-detects therefore the data has been reported.
Case Narrative	X			
Holding Times	X			
Analytical Sensitivty and Blanks				
Method Blank Detections		X		Hexane was detected in the method blank for analytical batch 428392. Magnesium was detected in the method blank for analytical batch 428438.
Trip Blank Detections			X	

Completed by: Semir Omerovic

Lab Report Date: 8/27/2024

Site Name: ADM-Clinton Landfill

Lab Report Number: 310-286332-1

	OK	NO	N/A	NOTES
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD		X		In analytical batch 428438 the MS & MSD results were outside recovery limit for magnesium. In analytical batch 429045 the MS & MSD results were outside recovery limits for ammonia.
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs		X		
Field Duplicates	X			The duplicate sample was collected from MW-4 during the fall 2024 event. All parameters had <50% relative difference. Constituents with J flag were not considered for the duplicate sample comparisons.

Appendix C

Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Arsenic, mg/L (CAS NO - 7440-38-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.2
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.925
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.139
	10/1/2014	< 0.002	< 0.002	< 0.002	< 0.00288	0.0249	N/A	0.0328	0.0387	0.098	N/A	0.106	N/A	0.0723	0.108	0.122	N/A	N/A	N/A	N/A
	10/1/2015	< 0.002	< 0.002	< 0.002	0.00243	0.0212	N/A	0.0339	0.041	0.064	N/A	0.0742	N/A	0.0759	0.117	0.123	N/A	N/A	N/A	N/A
	10/12/2016	0.000889*	< 0.002	< 0.002	0.00989	0.0161	N/A	0.00674	0.00513	0.0237	N/A	0.0662	N/A	0.07	0.155	0.0988	N/A	N/A	N/A	0.109
	10/5/2017	0.000605*	< 0.002	< 0.002	0.0113	0.0106	0.000541*	0.0411	0.00499	0.0185	< 0.002	0.0467	< 0.002	0.0629	0.103	0.129	0.00146*	< 0.002	0.000698*	N/A
	5/9/2018	0.000934	0.000934*	< 0.002	0.00177*	0.0263	< 0.002	0.0484	0.0244	0.00824	< 0.002	0.0564	< 0.002	0.0524	0.122	0.116	0.00135*	< 0.002	0.000744*	N/A
	9/10/2018	0.000574*	< 0.002	< 0.002	0.0115	0.017	< 0.002	0.0423	0.0135	0.0352	< 0.002	0.0736	< 0.002	0.0626	0.098	0.117	0.00103*	< 0.002	0.000716*	0.0792
	3/27/2019	< 0.002	< 0.002	< 0.002	0.00273	0.0233	< 0.002	0.0364	0.0267	0.0223	< 0.002	0.0715	< 0.002	0.064	0.124	0.099	< 0.002	< 0.002	< 0.002	N/A
	9/10/2019	< 0.002	< 0.002	< 0.002	0.0432	0.00883	0.000767*	0.0355	0.0386	0.0312	< 0.002	0.0361	< 0.002	0.068	0.113	0.115	0.00167*	< 0.002	0.00128*	N/A
	3/2/2020	< 0.002	< 0.002	< 0.002	0.0206	0.00602	< 0.002	0.043	0.0174	0.0293	< 0.002	0.0275	< 0.002	0.0606	0.127	0.146	0.00398	< 0.002	< 0.002	N/A
	8/26/2020	< 0.002	< 0.002	< 0.002	0.0416	0.00386	< 0.002	0.0485	0.0303	0.0444	< 0.002	0.0259	< 0.002	0.0575	0.102	0.133	0.00187*	< 0.002	< 0.002	0.0679
	5/4/2021	< 0.002	< 0.002	< 0.002	0.0389	0.00786	< 0.002	0.00856	0.0184	0.0873	< 0.002	0.0716	< 0.002	0.0499	0.0999	0.0484	< 0.002	< 0.002	< 0.002	N/A
	5/4/2021	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/17/2021	< 0.002	< 0.002	< 0.002	0.0209	0.0108	< 0.002	0.00972	0.0207	0.13	< 0.002	0.0811	0.000891*	0.0554	0.0641	0.0308	< 0.002	< 0.002	< 0.002	N/A
	8/17/2021	N/A	N/A	N/A	N/A	0.0123	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	< 0.002	< 0.002	< 0.002	0.00217	0.0173	< 0.002	0.0496	0.0319	0.165	< 0.002	0.0286	< 0.002	0.0551	0.0872	0.149	< 0.002	< 0.002	< 0.002	0.0664
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	8/9/2022	< 0.002	< 0.002	< 0.002	0.00319	0.0146	< 0.002	0.0132	0.0424	0.0903	< 0.002	0.086	< 0.002	0.0564	0.0876	0.0245	0.00081*	< 0.002	0.000865*	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/14/2023	< 0.002	< 0.002	< 0.002	0.00257	0.0108	< 0.002	0.0473	0.00957	0.0914	< 0.002	0.0816	< 0.002	0.0512	0.0651	0.13	< 0.002	< 0.002	0.000918*	N/A
	2/14/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000818*	N/A
	7/19/2023	< 0.002	< 0.002	< 0.002	0.00523	N/A	< 0.002	N/A	0.0272	N/A	< 0.002	N/A	< 0.002	0.0849	0.0895	0.113	< 0.008	< 0.002	0.000714*	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	0.000786*	0.000605*	< 0.002	0.00232	0.0164	< 0.002	0.0509	0.0295	0.0446	< 0.002	0.0907	< 0.002	0.0762	0.0895	< 0.002	0.000738*	0.102	0.000893*	0.0927
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000982*	N/A
	7/16/2024	< 0.002	< 0.002	< 0.002	0.00503	0.0272	< 0.002	0.051	0.0238	0.0297	< 0.002	0.0485	0.000736*	0.0575	0.0704	0.0952	0.000948*	< 0.002	0.00067*	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beryllium, mg/L (CAS NO - 7440-41-7)	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
Cadmium, mg/L (CAS NO - 7440-43-9)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.00175
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0025
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0069
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0004
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0007
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000884
Cobalt, mg/L (CAS NO - 7440-48-4)	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.021
	10/1/2014	< 0.0005	< 0.000533	0.000751	0.00179	< 0.0005	< 0.0005	0.0114	0.0144	0.00975	< 0.0005	0.00349	< 0.0005	0.0262	0.00265	0.00307	0.000767	< 0.0005	< 0.0005	N/A
	10/1/2015	< 0.0005	< 0.0005	0.000808	0.00113	< 0.0005	< 0.0005	0.0106	0.0118	0.00534	< 0.0005	0.00304	< 0.0005	0.0204	0.00299	0.00228	0.00328	< 0.0005	< 0.0005	N/A
	10/12/2016	< 0.0005	0.000229*	0.00033*	0.00348	0.00064	0.00007*	0.00491	0.000077*	0.00561	0.000052*	0.00229	0.00102	0.0256	0.00781	0.00185	0.00189	0.000075*	0.000117*	0.00773
	10/5/2017	< 0.0005	0.000297*	0.00041*	0.00418	0.000436*	< 0.0005	0.00457*	0.000089*	0.00494*	< 0.0005	0.00252*	0.000097*	0.0248	0.00228*	0.00216*	0.00154	< 0.0005	0.000316*	N/A
	5/9/2018	0.000243*	0.000243	0.000263*	0.0013	0.000376*	0.000064*	0.00874	0.00814	0.00131	< 0.0005	0.00366	0.000215*	0.0172	0.00258	0.00291	0.00461	< 0.0005	0.00013*	N/A
	9/10/2018	< 0.0005	0.000196*	0.000306*	0.00417	0.000516	< 0.0005	0.00762	0.00797	0.00658	< 0.0005	0.00307	0.000475*	0.00828	0.00209	0.00239	0.00108	< 0.0005	0.000201*	0.00511
	3/27/2019	< 0.0005	0.000223*	0.00017*	0.00177	0.000489*	< 0.0005	0.0101	0.0118	0.00595	< 0.0005	0.00305	0.000256*	0.0107	0.00245	0.00229*	0.000654	< 0.0005	0.000136*	N/A
	9/10/2019	< 0.0005	0.000381*	0.000128*	0.00391	0.00104	< 0.0005	0.0058	0.00322	0.0059	0.000109*	0.00202	0.000733	0.0272	0.00263	0.0025	0.0115	< 0.0005	0.000162*	N/A
	3/2/2020	< 0.0005	0.000266*	0.000143*	0.00283	0.00643	< 0.0005	0.00523	0.00435	0.0044	< 0.0005	0.00196	0.000275*	0.035	0.00296	0.00235	0.0128	< 0.0005	0.000168*	N/A
	8/26/2020	< 0.0005	0.000413*	0.000139*	0.00349	0.0191	< 0.0005	0.00543	0.00753	0.0061	< 0.0005	0.00234	0.000228*	0.028	0.00234	0.00256	0.00864	< 0.0005	< 0.0005	0.00453
	5/4/2021	< 0.0005	0.0004*	0.000173*	0.00485	0.0026	< 0.0005	0.00494	0.00487	0.00539	0.00013*	0.00256	0.000576	0.0296	0.00227	0.00248	0.000819	< 0.0005	0.000117*	N/A
	5/4/2021	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/17/2021	< 0.0005	0.000345*	0.000218*	0.0025	0.00111	< 0.0005	0.00526	0.00546	0.00687	0.000166*	0.00308*	0.00282	0.0262	0.0021	0.00202	0.00362	< 0.0005	0.000209*	N/A
	8/17/2021	N/A	N/A	N/A	N/A	0.000817	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	< 0.0005	< 0.0005	0.000307*	0.000515	0.00081	< 0.0005	0.00495	0.00474	0.00617	0.000277*	0.00276*	0.00132	0.0174	0.00191	0.00261	0.00227	< 0.0005	< 0.0005	0.00591
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A
	8/9/2022	< 0.0005	0.000461*	0.000271*	0.00304	0.00233	< 0.0005	0.00705	0.00478	0.00593	0.000203*	0.00307*	0.00104	0.0162	0.00226	0.00253	0.000968	< 0.0005	< 0.0005	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/14/2023	< 0.0005	< 0.0005	0.000312*	0.000473*	0.000925	< 0.0005	0.00558	0.00236	0.0075*	0.000295*	0.00547	0.000238*	0.0221	0.00186	0.00238	0.000822	< 0.0005	< 0.0005	N/A
	2/14/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A
	7/19/2023	< 0.0005	0.00152	0.000207*	0.00265	N/A	< 0.0005	N/A	0.00275	N/A	0.000234*	N/A	0.000463*	0.0016	0.00169	0.00275	0.00119*	< 0.0005	< 0.0005	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	< 0.0005	0.000264*	0.000478*	0.000587	0.00454	< 0.0005	0.00805	0.00386	0.00571	0.000382*	0.00286	< 0.0005	0.0194	0.00158	< 0.0005	0.000196*	0.00183	< 0.0005	0.00771
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A
	7/16/2024	< 0.0005	0.000434*	< 0.0005	0.00267	0.000835	< 0.0005	0.013	0.00143	0.0042	0.000225*	0.00349*	0.00104	0.01	0.00175	0.00239	0.00107	< 0.0005	< 0.0005	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper, mg/L (CAS NO - 7440-50-8)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.275
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.257
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.187
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0851
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00856
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0167*
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.035
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.139

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Lead, mg/L (CAS NO - 7439-92-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0185
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.000646**
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00058*
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0035
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.002*
Mercury, mg/L (CAS NO - 7439-97-6)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.000025
Nickel, mg/L (CAS NO - 7440-02-0)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.06**
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.01**
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.459**
	10/1/2014	< 0.005	N/A	< 0.01	N/A	N/A	N/A	N/A	**0.172**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/2015	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A	**0.162**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2016	< 0.005	N/A	0.00219*	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0492**
	10/5/2017	N/A	0.00479*	0.00467*	N/A	N/A	N/A	N/A	0.0033*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2018	N/A	0.00493*	0.00303*	N/A	N/A	N/A	N/A	**0.077**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	< 0.002	N/A	**0.00248**	N/A	N/A	N/A	N/A	**0.065**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0373**
	3/27/2019	< 0.005	N/A	0.00183*	N/A	N/A	N/A	N/A	**0.143**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2019	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A	**0.0405**	N/A	N/A	N/A	N/A	**0.0148**	**0.00874**	N/A	**0.0272**	< 0.005	N/A	N/A
	3/2/2020	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A	**0.0572**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A	**0.105**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0294**
	5/4/2021	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A	**0.065**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/17/2021	< 0.005	N/A	0.00432*	N/A	N/A	N/A	N/A	**0.07**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	< 0.005	N/A	0.00494*	N/A	N/A	N/A	N/A	**0.0623**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0337*
	8/9/2022	< 0.005	N/A	0.00308*	N/A	N/A	N/A	N/A	**0.0633**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/14/2023	< 0.005	N/A	0.00489*	N/A	N/A	N/A	N/A	**0.0453**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A	**0.0346**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	< 0.005	N/A	**0.006**	N/A	N/A	N/A	N/A	**0.0458**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0559**
	7/16/2024	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A	0.018*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.00366
Zinc, mg/L (CAS NO - 7440-66-6)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.633**
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.604**
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.29**
	10/1/2014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0134**	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	**0.0534**	< 0.01	< 0.01	N/A
	10/1/2015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0124**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0236**	< 0.01	**0.0192**	< 0.01	< 0.01	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0212**
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.08
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.14
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0706**
Total Suspended Solids, mg/L (CAS NO - TSS)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4130**
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**168**
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2530**
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**35**
	10/5/2017	0.75*	**2.13**	0.75*	**37.5**	**76.5**	< 1.88	**98.9**	< 1.88	1.38*	< 1.88	**3.5**	**26**	**132**	**102**	**108**	**3**	< 1.88	**144**	N/A
	5/9/2018	1*	**1**	1.5*	**4.62**	**84**	< 1.88	**96**	**11.5**	1.75*	< 1.88	3*	**45.5**	**154**	**31**	**70**	< 1.88	< 1.88	**3.38**	N/A
	9/10/2018	< 1.88	1.5*	< 1.88	**15.2**	**68**	< 1.88	**60.7**	**7.17**	1.5*	< 1.88	4.33*	**3.13**	**55.7**	**45.7**	**95.7**	< 1.88	< 1.88	< 1.88	**35**
	3/27/2019	0.75*	< 1.88	< 1.88	**9.87**	**81**	0.875*	**93**	**473**	**14**	< 1.88	**7.2**	**27.4**	**167**	**101**	**91.8**	< 1.88	1.38*	1.5*	N/A
	9/10/2019	< 1.88	**3.38**	< 1.88	**19.1**	**52.8**	< 1.88	**87.9**	**146**	0.75*	< 1.88	1.63*	**19**	**122**	**94**	**103**	**3.25**	< 1.88	< 1.88	N/A
	3/2/2020	< 1.88	1.25*	< 1.88	**16.5**	**31**	0.75*	**112**	**1290**	< 3	0.75*	2.67*	**27.5**	**97**	**73.7**	**96**	**20.1**	1*	**22.5**	N/A
	8/26/2020	< 1.88	1*	< 1.88	**4.88**	**33.1**	< 1.88	**108**	**549**	1*	1.75*	**103**	**52.5**	**132**	**91.5**	**90.5**	**6.75**	**6.87**	**2.63**	**29.3**
	5/4/2021	< 1.88	1*	**4.62**	**25.7**	**50.8**	0.75*	**94**	**185**	< 1.88	0.875*	**4.8**	**92.1**	**136**	**85.2**	**88.3**	< 1.88	< 1.88	**2**	N/A
	5/4/2021	< 1.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/17/2021	< 1.88	< 1.88	1.63*	**5.67**	**52**	< 1.88	**108**	**110**	< 1.88	< 1.88	**3**	**96.7**	**124**	**68**	**96**	< 1.88	< 1.88	**27.3**	N/A
	8/17/2021	N/A	N/A	N/A	N/A	**52**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	< 1.88	< 1.88	< 1.88	**2.88**	**74**	< 1.88	**106**	**314**	1.13*	< 1.88	5.5*	**496**	**137**	**73**	**96.7**	1.13*	< 1.88	**4.5**	**21**
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**6.5**	N/A
	8/9/2022	< 1.88	1.38*	< 1.88	**13**	**74**	**3.75**	**104**	**1160**	**5.67**	< 1.88	3*	**88**	**140**	**76**	**99**	< 1.88	< 1.88	**3.5**	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	0.75*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/14/2023	< 1.88	< 1.88	< 1.88	**3**	**45**	**3.13**	**131**	**2240**	**6.87**	**3.5**	**280**	**606**	**44**	**42**	**109**	< 1.88	**6.25**	**8.63**	N/A
	2/14/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**13.9**	N/A
	7/19/2023	< 1.88	1.13*	< 1.88	**7.38**	N/A	< 1.88	N/A	**314**	N/A	**3.5**	N/A	**107**	**140**	**64**	**97**	< 1.88	< 1.88	**10.9**	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	1.5*	**5.37**	**32.5**	**21.1**	**122**	1.75*	**108**	**1850**	< 1.88	< 1.88	4.33*	**31**	**138**	**67.3**	**10.9**	**5.5**	**73.3**	**21.1**	**574**
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**24.8**	N/A
	7/16/2024	< 1.88	< 1.88	**1.88**	**10.3**	**87.3**	< 1.88	**104**	**210**	**45.3**	< 1.88	< 1.88	**715**	**138**	**52.5**	**79.3**	**15**	< 1.88	< 1.88	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	10/2/2013	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12
	10/2/2013	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.2
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1
	10/2/2013	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 200
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12
	10/2/2013	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.2
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.21
	10/2/2013	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 2.1
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.572*	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.383*	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.15
	10/2/2013	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 1.5
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	< 20
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 20	< 2	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	< 20	N/A	N/A	N/A	N/A	N/A	< 20
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	< 20	< 20	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	< 2	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	10/2/2013	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	10/2/2013	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	10/2/2013	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.35
	10/2/2013	< 0.14	< 0.14	< 0.14	< 0.232	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 23
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 101
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.18
	10/2/2013	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 1.8
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.672*	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.87
	10/2/2013	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 8.7
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.53
	10/2/2013	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 15
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
2-Butanone, ug/L (CAS NO - 78-93-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2300
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	764
	10/2/2013	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	1.06*	8.76*	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	369
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.7*
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.18*	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	2.34*	< 10	N/A	N/A	N/A	N/A	< 100
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 100	< 10	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100	N/A	< 100	N/A	N/A	N/A	N/A	N/A	< 100
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100	N/A	< 100	< 100	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.14*	N/A	2.51*	< 10	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100	< 10	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
2-Hexanone, ug/L (CAS NO - 591-78-6)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1000
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.53*
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.42*
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.2

SCS ENGINEERS

Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Acetone, ug/L (CAS NO - 67-64-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1640
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	329
	10/2/2013	< 1.79	< 1.79	< 1.79	< 1.79	< 1.79	< 1.79	< 1.79	< 1.79	9.29*	< 1.79	3.52*	< 1.79	6.08*	2.5*	< 1.79	< 1.79	< 1.79	< 1.79	284
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.27*	N/A	13	4.82*	N/A	N/A	N/A	N/A	< 100
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.03*	N/A	< 100	< 10	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100	N/A	< 100	N/A	N/A	N/A	N/A	N/A	41.3*
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100	N/A	< 100	< 100	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.15*	N/A	17.6	5.31*	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100	< 10	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.1*
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	4.5*	< 10	N/A	N/A	N/A	N/A	N/A
Acrylonitrile, ug/L (CAS NO - 107-13-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1000
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.53
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5.3
Benzene, ug/L (CAS NO - 71-43-2)	6/7/1993	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/14/1993	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 5	< 1	6	< 1	< 5	< 2	< 5	< 2	< 1	< 1	N/A
	12/8/1993	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 2	< 5	< 2	< 2	< 1	N/A
	3/22/1994	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2.5	< 1	< 2.5	< 1	< 5	< 5	< 5	< 1	< 1	< 1	N/A
	9/30/1994	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/16/1995	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/1995	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	14.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/13/1996	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	11.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/10/1996	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	12.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/1997	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/10/1997	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	14.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/19/1998	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	16.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/1998	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	14.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/18/1999	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	< 25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2000	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	19	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/10/2000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	13	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	10/17/2001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/2002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/24/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/5/2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/17/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/23/2007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/9/2007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/23/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/9/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/7/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/26/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/27/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.11
	10/2/2013	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	7.66	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1
	10/1/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.5*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	5/9/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	< 5
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	< 5	< 0.5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.3	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.6	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.8	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 0.5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.95	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Bromochloromethane, ug/L (CAS NO - 74-97-5)	10/2/2013	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 200
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12
	10/2/2013	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.2
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Bromoform, ug/L (CAS NO - 75-25-2)	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.14
	10/2/2013	< 0.14	< 0.14	< 0.14	0.196*	< 0.14	< 0.14	0.165*	0.278*	< 0.14	0.177*	0.219*	< 0.14	< 0.14	< 0.14	0.15*	< 0.14	< 0.14	< 0.14	< 1.4
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
Bromomethane, ug/L (CAS NO - 74-83-9)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 500
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.22
	10/2/2013	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	4.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 2.2
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.391*	N/A	0.327*	< 4	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	< 40
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 40	< 4	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	N/A	< 40	N/A	N/A	N/A	N/A	N/A	< 40
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	N/A	< 40	< 40	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	< 4	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	10/2/2013	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	0.244*	0.45*	< 0.15	0.592*	0.581*	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.25*
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.5	N/A	1.03	0.568*	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.549*	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.97	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.5	N/A	5.71*	N/A	N/A	N/A	N/A	N/A	5.21*
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.457*	N/A	0.489*	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.56*
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 200
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.24
	10/2/2013	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 2.4
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	< 20
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 20	< 2	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	< 20	N/A	N/A	N/A	N/A	N/A	< 20
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	< 20	< 20	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	< 2	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
Chlorobenzene, ug/L (CAS NO - 108-90-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.19
	10/2/2013	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 200
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2
	10/2/2013	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 2
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
Chloroethane, ug/L (CAS NO - 75-00-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 400
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.15
	10/2/2013	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 1.5
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	< 40
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 40	< 4	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	N/A	< 40	N/A	N/A	N/A	N/A	N/A	< 40
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	N/A	< 40	< 40	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	< 4	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
Chloroform, ug/L (CAS NO - 67-66-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 200
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.28
	10/2/2013	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 2.8
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.07*
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	< 30
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 30	< 3	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	N/A	< 30	N/A	N/A	N/A	N/A	N/A	< 30
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	N/A	< 30	< 30	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	< 3	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Chloromethane, ug/L (CAS NO - 74-87-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 300
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.31
	10/2/2013	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 3.1
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	< 30
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 30	< 3	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	N/A	< 30	N/A	N/A	N/A	N/A	N/A	< 30
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	N/A	< 30	< 30	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	< 3	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13
	10/2/2013	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 1.3
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	10/2/2013	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
Ethylbenzene, ug/L (CAS NO - 100-41-4)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.21
	10/2/2013	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	0.356*	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 2.1
	10/1/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.465*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.325*	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.404*	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.381*	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.427*	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Methylene Bromide, ug/L (CAS NO - 74-95-3)	10/2/2013	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Methylene Chloride, ug/L (CAS NO - 75-09-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 500
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.17
	10/2/2013	< 0.17	< 0.17	< 0.17	< 0.17	0.27*	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.549*	0.558*	< 0.17	< 0.17	< 0.17	< 0.17	< 1.7
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.1*
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
Styrene, ug/L (CAS NO - 100-42-5)	10/2/2013	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.182*
	10/2/2013	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 1.8
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Toluene, ug/L (CAS NO - 108-88-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.408*
	10/2/2013	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	**7.98**	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 1.5
	10/1/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**14.4**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**14**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3.37**	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**5.49**	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**8.22**	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.45*	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**10.8**	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**6.36**	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.21
	10/2/2013	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 2.1
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	10/2/2013	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
Trichloroethene, ug/L (CAS NO - 79-01-6)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.19
	10/2/2013	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 400
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.17
	10/2/2013	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.374*	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 1.7
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	< 40
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 40	< 4	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	N/A	< 40	N/A	N/A	N/A	N/A	N/A	< 40
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	N/A	< 40	< 40	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	< 4	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1
	10/2/2013	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Xylenes, total, ug/L (CAS NO - 1330-20-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 300
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13
	10/2/2013	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.15*	< 0.13	< 0.13	< 0.13	0.227*	0.398*	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 1.3
	10/1/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.26*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.311*	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	5/9/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 6	< 6	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	< 30
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 30	< 3	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	N/A	< 30	N/A	N/A	N/A	N/A	N/A	< 30
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	N/A	< 30	< 30	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	< 3	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	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
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Chemical Oxygen Demand, mg/L (CAS NO - COD)	6/7/1993	< 5	24	< 5	32	24	< 5	59	100	460	13	1400	5.3	130	59	150	33	16	23	N/A
	9/14/1993	< 5	18	< 5	23	45	< 5	40	93	550	< 5	450	< 5	320	36	250	140	17	5.5	N/A
	12/8/1993	23	21	21	54	54	7.8	65	110	1000	7.8	1000	13	190	62	250	47	54	31	N/A
	3/22/1994	< 5	17	14	21	37	< 5	48	91	370	< 5	690	< 5	110	34	240	28	59	14	N/A
	9/30/1994	< 5	22	8.3	31	39	< 5	48	59	450	< 5	680	< 5	120	31	160	23	28	14	N/A
	3/16/1995	< 5	15	11	26	35	< 5	55	82	470	< 5	990	< 5	200	39	290	23	130	11	N/A
	9/26/1995	< 5	18	7	47	33	< 5	54	100	420	< 5	420	< 5	230	44	270	19	98	13	N/A
	5/13/1996	< 5	14	< 5	26	23	< 5	39	45	240	< 5	260	< 5	73	23	210	20	82	12	N/A
	10/10/1996	< 5	16.8	8.5	44	38	< 5	44	120	430	23	520	< 5	270	110	270	23	140	< 5	N/A
	6/19/1997	< 5	5.2	< 5	41	20	< 5	43	110	360	< 5	280	< 5	240	67	220	12	58	< 5	N/A
	10/10/1997	< 5	8	< 5	46	26	14	49	130	540	< 5	46	< 5	240	91	330	15	58	6.3	N/A
	5/19/1998	7.3	23	12	39	32	< 5	51	120	460	< 5	590	< 5	340	160	370	20	60	24	N/A
	10/19/1998	< 5	11	7.6	23	27	< 5	50	110	340	< 5	400	< 5	240	140	260	18	140	12	N/A
	4/20/1999	< 5	6.4	< 5	14	22	< 5	40	120	290	< 5	220	< 5	150	78	120	11	41	< 5	N/A
	10/18/1999	< 5	8.3	< 5	27	11	< 5	37	140	290	< 5	310	< 5	150	140	180	12	49	< 5	N/A
	4/18/2000	N/A	14	N/A	36	29	N/A	44	N/A	450	N/A	570	N/A	230	N/A	250	14	N/A	6.9	N/A
	10/10/2000	N/A	117	N/A	62.9	186	N/A	380	N/A	546	N/A	363	N/A	234	N/A	429	103	N/A	74.3	N/A
	4/25/2001	N/A	< 20	N/A	< 20	48	N/A	54.2	N/A	228	N/A	258	N/A	135	N/A	204	28	N/A	28	N/A
	10/17/2001	< 20	< 20	N/A	< 20	< 20	< 20	< 20	< 20	3.23	< 20	1.24	< 20	< 20	< 20	< 20	< 20	< 20	< 20	N/A
	4/1/2002	N/A	11	N/A	20	29	N/A	93	N/A	430	N/A	270	N/A	260	N/A	250	13	N/A	11	N/A
	10/1/2002	< 20	< 20	N/A	30	30	< 20	72	200	510	< 20	500	< 20	280	100	200	< 20	< 20	< 20	N/A
	4/21/2003	N/A	11	N/A	23	39	N/A	72	N/A	520	N/A	440	N/A	200	N/A	190	19	N/A	12	N/A
	9/24/2003	< 5	12	16	24	28	6.3	75	140	470	14	430	7	250	139	240	17	91	9.4	N/A
	4/9/2004	N/A	12	N/A	25	36	N/A	230	N/A	380	N/A	1160	N/A	210	N/A	200	23	N/A	14	N/A
	10/19/2004	< 5	8.7	8.1	23	26	< 5	66	170	400	< 5	310	< 5	180	95	210	18	60	11	N/A
	4/5/2005	N/A	8.5	N/A	< 5	28	N/A	100	N/A	280	N/A	460	N/A	260	N/A	180	19	N/A	8.7	N/A
	10/20/2005	< 5	12	25	10	28	< 5	149	105	385	5.9	367	5.6	210	78	180	17	12	10	N/A
	4/17/2006	N/A	13.4	N/A	19.2	27.3	N/A	165	N/A	216	N/A	440	N/A	165	N/A	162	22.7	N/A	13.9	N/A
	10/17/2006	< 5	12.7	10.3	16	29.4	< 5	102	160	434	< 5	388	< 5	174	93	192	25.2	42.6	14.2	N/A
	4/23/2007	N/A	16.1	N/A	29.1	36.5	N/A	122	N/A	260	N/A	1140	N/A	184	N/A	214	25.5	N/A	22.5	N/A
	10/9/2007	9.1	15.9	9.5	26.1	32.7	< 5	133	108	349	6.5	445	6.7	218	76.2	200	24.1	10	13.2	N/A
	4/14/2008	N/A	22	N/A	8.3	41.2	N/A	266	N/A	39.5	N/A	601	N/A	184	N/A	271	< 5	N/A	< 5	N/A
	10/23/2008	9.2	19.8	13.3	30	12.3	< 5	81	179	470	5.8	374	8.1	148	80	221	29.2	24.1	22.9	N/A
	4/14/2009	N/A	15.7	N/A	26.6	32.2	N/A	94.8	N/A	416	N/A	694	N/A	100	N/A	144	30.9	N/A	19.1	N/A
	10/9/2009	< 5	16.3	6.4	24.9	25.7	< 5	49	140	356	< 5	322	< 5	142	67.7	108	19.7	32.9	12	N/A
	4/7/2010	N/A	13.3	N/A	12.2	27.6	N/A	88.8	N/A	201	N/A	908	N/A	64.4	N/A	167	< 5	N/A	10.5	N/A
	10/26/2010	< 5	< 25	< 5	38.1	7.5	< 5	38.9	< 5	314	< 5	480	< 5	270	60.4	138	22	9.6	12.3	N/A
	4/13/2011	N/A	9.5	N/A	38.2	33.6	N/A	53.3	N/A	250	N/A	504	N/A	150	N/A	175	12.5	N/A	6.9	N/A
	10/27/2011	9.7	13.6	6.8	46.9	24.4	7.8	64.8	32.2	384	< 5	394	17.9	279	55.4	171	20.2	7.8	11.7	N/A
	4/24/2012	N/A	< 5	N/A	15.2	21.5	N/A	44.7	N/A	362	N/A	614	N/A	264	N/A	68.8	< 5	N/A	< 5	N/A
	10/23/2012	11.6	9.3	10.9	< 5	15.8	26.4	50.5	< 5	506	5.1	415	< 5	248	39.6	91.7	14.8	< 5	6.1	N/A
	4/2/2013	< 5	5.1	8.8	17.8	29.9	< 5	43.2	< 5	1330	< 5	511	< 5	178	79	181	7.8	< 5	15.1	N/A
	10/2/2013	< 5	< 5	< 5	33.1	30.1	< 5	82.1	102	416	13.9	546	< 5	190	75	147	< 5	< 5	6.4	N/A
	4/1/2014	< 5	< 6.7	6.1	14.8	31	< 5	95.5	145	492	< 5	501	7.8	144	76	164	27.2	12.5	8.8	N/A
	10/1/2014	5.3	14.4	< 5	27.7	29.9	6.6	76.6	184	441	< 5	460	6.3	288	78.8	190	14.7	9.9	11.1	N/A
	4/29/2015	< 5	13.1	11.4	15.9	30.4	< 0.5	99.6	79.3	459	7.75	470	< 5	262	90.3	150	< 5	16.9	7.99	N/A
	10/1/2015	5.05	9.18	10.2	22.3	30.9	< 5	83.1	161	355	5.4	493	< 5	186	28.7	142	7.12	16.8	12.3	N/A
	4/25/2016	< 5	13	6.13	21.8	29.1	4.98*	78.5	7.27	534	4.6*	524	< 5	262	103	153	26.8	13	6.13	N/A
	10/12/2016	< 5	4.65*	< 5	31.1	23.9	< 5	60.5	< 5	268	< 5	496	< 5	240	80	108	18.4	< 5	8.24	N/A
	4/12/2017	7.77	20.5	13.8	35.9	74.1	11.8	113	N/A	506	13.5	481	9.45	292	116	126	24.2	50.6	18.2	N/A
	10/5/2017	28.6	30.3	9.79	31.6	12.2	6.39	63.6	< 5	452	< 5	408	6.18	251	76.2	145	16.3	4.68*	10.1	N/A
	5/9/2018	9.99	11.6	< 5	15.6	35.9	< 5	85.8	74.7	284	< 5	333	< 5	192	50.4	123	9.33	< 5	< 5	N/A
	9/10/2018	< 5	7.42	< 5	27.1	25.5	< 5	67.1	52.1	387	< 5	382	< 5	119	57.1	125	14.1	< 5	8.42	N/A
	3/27/2019	8.88	15.9	5.36	21.2	38.2	< 5	81.9	85	323	< 5	656	< 5	135	64.3	151	10.7	< 5	13.1	N/A
	9/10/2019	< 5	10.3	< 5	36.9	22.6	< 5	79.7	144	521	< 5	343	7.87	256	63.2	129	18.8	6.39	10.7	N/A
	3/2/2020	< 5	6.24	< 5	33.2	11.3	< 5	78.8	129	481	< 5	433	< 5	238	55	123	17	< 5	7.59	N/A
	8/26/2020	40.2	12.5	11.1	47.5	45.3	26.9	110	322	935	22.7	604	20	405	84.4	118	30.6	18.4	13.4	N/A
	5/4/2021	5.18	< 5	< 5	33.1	25.5	< 5	93.9	135	623	5.96	571	< 5	423	61.4	117	11.6	< 5	9.51	N/A
	5/4/2021	5.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/17/2021	11.9	8.58	11.5	42.1	29.9	9.23	90	130	839	20.4	463	7.26	251	32.8	120	13.1	< 5	13.2	N/A
	8/17/2021	N/A	N/A	N/A	N/A	36.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	< 5	< 5	< 5	< 5	31	< 5	81.7	136	399	< 5	392	< 5	145	26.8	122	< 5	< 5	< 5	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/9/2022	< 5	8.51	6.91	22	24	6.58	< 5	90	130	412	478	6.58	256	37.7	120	12.7	< 5	7.87	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/14/2023	< 5	< 5	< 5	9.91	25.6	5.06	94.9	62.8	428	5.06	525	8.36	159	26	126	5.13	< 5	12.3	N/A
	2/14/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.35	N/A
	7/19/2023	5.41	7.85	11.4	28.9	N/A	< 5	N/A	135	N/A	6.11	N/A	7.07	236	30.5	116	15.7	6.41	11.7	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	< 5	8.72	< 5	17.1	40.4	< 5	141	85.8	429	< 5	511	5.36	156	25.2	< 5	12.4	102	5.02	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.36	N/A
	7/16/2024	< 5	10.5	8.06	29.1	43.8	8.41	217	46.9	305	6.31	280	18.2	122	28.7	114	22.8	11.6	12.6	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Iron, Dissolved, mg/L (CAS NO - D7439-89-6)	6/7/1993	< 0.1	< 0.1	< 0.1	< 0.1	0.5	< 0.1	0.1	< 0.1	3.4	< 0.1	0.26	< 0.1	0.25	2.8	1.4	3	< 0.1	< 0.1	N/A
	9/14/1993	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	11	2.6	< 0.1	0.59	0.2	0.2	< 0.1	40	5	4.4	8.8	< 0.1	< 0.1	N/A
	12/8/1993	< 0.1	< 0.1	< 0.1	< 0.1	15	< 0.1	7.3	< 0.1	4.5	0.11	0.19	< 0.1	61	7.9	30	6.9	< 0.1	< 0.1	N/A
	3/22/1994	< 0.1	< 0.1	< 0.1	< 0.1	0.16	< 0.1	0.64	< 0.1	2.6	< 0.1	2.3	0.14	36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A
	9/30/1994	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.12	< 0.1	2.1	< 0.1	0.11	< 0.1	3.4	< 0.1	< 0.1	1.6	< 0.1	< 0.1	N/A
	3/16/1995	< 0.1	< 0.1	< 0.1	< 0.1	0.85	< 0.1	0.39	< 0.1	1.1	< 0.1	0.12	< 0.1	3.4	12	0.35	5.4	7.7	< 0.1	N/A
	9/26/1995	< 0.1	< 0.1	< 0.1	< 0.1	1.3	< 0.1	0.11	0.1	1.3	< 0.1	0.23	< 0.1	58	11	0.22	1.3	< 0.1	< 0.1	N/A
	5/13/1996	< 0.1	< 0.1	N/A	< 0.1	20	< 0.1	20	< 0.1	26	< 0.1	0.13	< 0.1	51	5.8	5.6	< 0.1	0.29	< 0.1	N/A
	10/10/1996	0.13	0.1	< 0.1	0.1	26	< 0.1	35	0.38	0.71	< 0.1	0.49	< 0.1	57	14	36	2.2	1.5	< 0.1	N/A
	6/19/1997	< 0.1	< 0.1	< 0.1	< 0.1	14	< 0.1	16	0.1	2.6	< 0.1	< 0.1	< 0.1	56	12	34	< 0.1	< 0.1	< 0.1	N/A
	10/10/1997	< 0.1	< 0.1	< 0.1	0.26	23	< 0.1	17	0.65	1.2	< 0.1	0.19	< 0.1	0.92	16	35	1	0.22	< 0.1	N/A
	5/19/1998	0.32	< 0.1	< 0.1	0.2	21	< 0.1	19	0.23	2	< 0.1	0.15	< 0.1	58	19	42	0.13	0.1	0.28	N/A
	10/19/1998	< 0.1	< 0.1	< 0.1	< 0.1	23	< 0.1	19	0.57	1.6	< 0.1	0.26	< 0.1	58	21	41	3.1	0.82	< 0.1	N/A
	4/20/1999	< 0.1	< 0.1	< 0.1	< 0.1	34	< 0.1	22	0.33	4.8	< 0.1	0.23	< 0.1	58	18	28	2.2	0.44	< 0.1	N/A
	10/18/1999	0.58	0.13	< 0.1	0.27	21	< 0.1	19	1.3	1.8	< 0.1	0.18	< 0.1	70	23	40	0.39	0.15	< 0.1	N/A
	4/18/2000	N/A	< 0.1	N/A	< 0.1	25	N/A	30	N/A	3	N/A	0.14	N/A	55	N/A	41	< 0.1	N/A	< 0.1	N/A
	10/10/2000	N/A	0.329	N/A	0.222	26.4	0.245	18.5	1.52	2.18	0.247	1.18	0.294	62.8	22.7	10.7	0.596	0.703	0.285	N/A
	4/25/2001	N/A	0.198	N/A	0.208	24.2	N/A	14.8	N/A	1.87	N/A	0.988	N/A	74.1	N/A	26.5	0.287	N/A	0.17	N/A
	10/17/2001	0.098	0.157	N/A	0.105	19.7	0.089	0.529	0.405	3.68	0.132	0.537	0.15	37.4	0.535	2.16	0.264	0.152	0.12	N/A
	4/1/2002	N/A	< 0.1	N/A	< 0.1	28	N/A	14	N/A	2.3	N/A	0.19	N/A	62	N/A	34	0.12	N/A	< 0.1	N/A
	10/1/2002	0.035	0.032	N/A	0.22	22	0.032	20	1.9	2.3	0.022	0.2	0.027	54	28	42	0.83	0.073	0.066	N/A
	4/21/2003	N/A	< 0.1	N/A	< 0.1	21	N/A	20	N/A	0.89	N/A	0.3	N/A	75	N/A	33	0.29	N/A	< 0.1	N/A
	9/24/2003	< 0.1	< 0.1	< 0.1	< 0.1	25	< 0.1	19	2.1	1.9	< 0.1	0.17	< 0.1	65	28	43	< 0.1	0.22	< 0.1	N/A
	4/9/2004	N/A	< 0.1	N/A	< 0.1	26	N/A	21	N/A	4.7	N/A	0.15	N/A	87	N/A	48	< 0.1	N/A	< 0.1	N/A
	10/19/2004	< 0.1	< 0.1	< 0.1	< 0.1	26.3	< 0.1	20	2.2	2.6	< 0.1	0.3	< 0.1	79	32	48	0.15	0.37	< 0.1	N/A
	4/5/2005	N/A	< 0.1	N/A	< 0.1	26	N/A	20	N/A	2.9	N/A	0.19	N/A	63	N/A	28	0.54	N/A	< 0.1	N/A
	10/20/2005	< 0.1	< 0.1	< 0.1	< 0.1	27	< 0.1	19.6	1.88	2.37	< 0.1	0.101	< 0.1	56	32	31	0.2	< 0.1	< 0.1	N/A
	4/17/2006	N/A	< 0.1	N/A	< 0.1	28.1	N/A	20.7	N/A	3.13	N/A	< 0.1	N/A	73.3	N/A	22.2	0.14	N/A	< 0.1	N/A
	10/17/2006	< 0.1	< 0.1	< 0.1	< 0.1	27.9	< 0.1	19.6	2.45	1.55	< 0.1	0.34	< 0.1	70.8	31.5	38.3	< 0.1	0.291	< 0.1	N/A
	4/23/2007	N/A	< 0.1	N/A	< 0.1	25	N/A	25.4	N/A	2.1	N/A	0.217	N/A	74.5	N/A	30.3	< 0.1	N/A	< 0.1	N/A
	10/9/2007	< 0.1	< 0.1	< 0.1	0.181	25.3	< 0.1	17.3	1.85	1.2	< 0.1	0.436	< 0.1	48.1	32.7	36.1	< 0.1	< 0.1	< 0.1	N/A
	4/14/2008	N/A	< 0.1	N/A	< 0.1	28	N/A	22.9	N/A	3.96	N/A	0.127	N/A	74.5	N/A	1.78	< 0.1	N/A	< 0.1	N/A
	10/23/2008	< 0.1	< 0.1	< 0.1	0.117	25.8	< 0.1	15.5	2.65	1.59	< 0.1	0.38	< 0.1	76.8	32.4	41.2	0.178	< 0.1	< 0.1	N/A
	4/14/2009	N/A	< 0.1	N/A	< 0.1	23.5	N/A	23.5	N/A	1.06	N/A	0.248	N/A	69.5	N/A	43.8	< 0.1	N/A	< 0.1	N/A
	10/9/2009	< 0.1	< 0.1	< 0.1	0.806	23.7	< 0.1	21.1	3.09	2.11	< 0.1	0.311	< 0.1	63.7	39.2	35.2	< 0.1	0.131	< 0.1	N/A
	4/7/2010	N/A	< 0.1	N/A	< 0.1	24	N/A	25	N/A	2.35	N/A	0.144	N/A	63.3	N/A	32.1	< 0.1	N/A	< 0.1	N/A
	10/26/2010	< 0.1	< 0.1	< 0.1	0.952	20.7	< 0.1	25.6	< 0.1	2.41	< 0.1	< 0.1	< 0.1	41	33.8	28	0.337	< 0.1	0.35	N/A
	4/13/2011	N/A	< 0.1	N/A	7.19	30.2	N/A	22.7	N/A	2.96	N/A	< 0.1	N/A	85.1	N/A	34.6	1.66	N/A	0.96	N/A
	10/27/2011	< 0.1	< 0.1	< 0.1	1.18	22.4	< 0.1	19.6	3.52	1.53	< 0.1	< 0.1	< 0.1	5.29	31.9	24.2	0.764	< 0.1	< 0.1	N/A
	4/24/2012	N/A	< 0.1	N/A	< 0.1	19.2	N/A	19.1	N/A	1.18	N/A	< 0.1	N/A	49.5	N/A	14.1	0.363	N/A	< 0.1	N/A
	10/23/2012	< 0.1	< 0.1	< 0.1	0.334	22.3	0.028	20.5	< 0.1	0.78	< 0.1	< 0.1	< 0.1	58.3	0.384	24.1	0.557	0.763	< 0.1	N/A
	4/2/2013	< 0.1	< 0.1	< 0.1	< 0.1	34.1	< 0.1	23	< 0.1	1.58	< 0.1	0.429	< 0.1	79.7	31.4	23.3	< 0.1	< 0.1	< 0.1	N/A
	10/2/2013	< 0.1	< 0.1	< 0.1	0.309	37.7	< 0.1	25.3	4.11	1.74	0.101	< 0.1	0.121	62.7	33.5	39.5	0.394	< 0.1	< 0.1	N/A
	4/1/2014	< 0.301	< 0.301	< 0.301	< 0.301	28.8	< 0.301	27	3.81	0.839	< 0.301	< 0.301	< 0.301	79.8	37.5	39.2	< 0.602	< 0.301	< 0.301	N/A
	10/1/2014	< 0.1	< 0.1	< 0.1	0.756	34.6	< 0.1	29.5	3.82	1.9	< 0.1	< 0.1	< 0.1	45.8	34.9	37.4	2.23	< 0.1	< 0.1	N/A
	4/29/2015	< 0.1	< 0.1	< 0.1	< 0.1	35	< 0.1	27.5	4.79	10.7	< 0.1	< 0.1	< 0.1	71.4	38.9	40.9	0.72	< 0.1	< 0.1	N/A
	10/1/2015	< 0.1	< 0.1	< 0.1	0.349	38.4	< 0.1	26.7	5.35	2.05	< 0.1	< 0.1	< 0.1	69.8	45.3	18.3	1.88	0.536	< 0.1	N/A
	4/25/2016	< 0.1	0.068*	< 0.1	< 0.1	15.4	< 0.1	12.3	< 0.1	1.5	< 0.1	< 0.1	< 0.1	53.9	39.8	30.2	< 0.1	< 0.1	< 0.1	N/A
	10/12/2016	< 0.1	< 0.1	< 0.1	3.96	27.7	< 0.1	36.6	< 0.1	1.91	< 0.1	< 0.1	0.0697*	47.6	42.3	29.9	0.729	< 0.1	< 0.1	N/A
	4/12/2017	< 0.1	< 0.1	< 0.1	0.0951*	19.2	< 0.1	1.71	N/A	0.857	< 0.1	< 0.1	0.136	52.8	37	28.7	< 0.1	< 0.1	< 0.1	N/A
	10/5/2017	< 0.1	< 0.1	< 0.1	5.36	26.5	0.05*	28.2	< 0.1	0.688	< 0.1	0.0772*	0.0822*	50.5	39.1	31	0.938	0.0978*	< 0.1	N/A
	5/9/2018	< 0.1	< 0.1	< 0.1	< 0.1	36.2	1.94	35.2	4.41	1.57	< 0.1	< 0.5	0.0699*	76.9	38.1	32.4	0.938	0.11	< 0.1	N/A
	9/10/2018	< 0.5	< 0.5	N/A	3.57	32.6	< 0.5	32.8	4.32	0.883	< 0.5	< 0.5	1.82	85.8	46.9	29.4	< 0.5	< 0.5	3.22	N/A
	3/27/2019	< 0.1	0.134	< 0.1	0.222	32.8	< 0.1	30.4	1.46	2.01	< 0.1	< 0.1	0.228	85.9	49.4	30.6	< 0.1	< 0.1	< 0.1	N/A
	9/10/2019	< 0.1	0.299	< 0.1	9.03	22.2	< 0.1	25	1.32	0.513	< 0.1	< 0.1	< 0.1	53.6	43.1	31.9	1.49	< 0.1	< 0.1	N/A
	3/2/2020	< 0.1	< 0.1	< 0.1	0.282	11.8	< 0.1	31.8	10.2	0.419	< 0.1	< 0.1	< 0.1	49.9	36.4	32.6	2.48	< 0.1	< 0.1	N/A
	8/26/2020	< 0.1	< 0.1	< 0.1	7.14	14.5	< 0.1	35	11.7	0.652	< 0.1	< 0.1	< 0.1	47.4	42.1	29.7	2.18	< 0.1	< 0.1	N/A
	5/4/2021	< 0.1	< 0.1	< 0.1	9.03	19.3	< 0.1	2.22	6.77	0.532	< 0.1	< 0.1	0.052*	43.7	41.9	2.12	< 0.1	< 0.1	< 0.1	N/A
	5/4/2021	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/17/2021	< 0.1	< 0.1	< 0.1	5.9	29	< 0.1	1.03	3.21	0.351	< 0.1	< 0.1	0.0912*	48	27.7	14.4	0.17	< 0.1	< 0.1	N/A
	8/17/2021	N/A	N/A	N/A	N/A	29.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	0.82	< 0.1	< 0.1	0.185	29.2	0.844	35.6	12	0.542	1.02	< 0.1	0.18	57.4	31.3	27.4	0.972	0.259	< 0.1	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A
	8/9/2022	< 0.1	0.0462*	< 0.1	0.168	26.3	< 0.1	10.9	18.6	0.554	< 0.1	< 0.1	0.135	47.7	29.1	0.358	< 0.1	< 0.1	< 0.1	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Halogens, mg/L (CAS NO - TOH)	9/30/1994	< 0.01	0.014	< 0.01	0.012	0.026	< 0.01	0.02	0.046	0.189	< 0.01	0.037	0.01	0.046	< 0.01	0.049	0.022	0.015	0.02	N/A
	9/26/1995	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.049	< 0.01	0.013	0.021	< 0.01	0.016	0.001	< 0.01	< 0.01	< 0.01	< 0.01	N/A
	10/10/1996	< 0.01	0.019	N/A	0.048	0.047	< 0.01	0.046	0.155	0.307	< 0.01	0.049	< 0.01	0.067	0.032	0.053	0.013	0.071	0.018	N/A
	10/10/1997	< 0.01	0.02	< 0.01	0.017	0.027	< 0.01	0.021	0.064	0.079	< 0.01	0.017	< 0.01	0.092	0.056	0.07	0.02	0.04	0.016	N/A
	10/19/1998	N/A	N/A	N/A	0.024	N/A	N/A	N/A	N/A	N/A	N/A	0.059	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/18/1999	N/A	N/A	N/A	0.014	N/A	N/A	N/A	N/A	N/A	N/A	0.068	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Total Phenols, mg/L (CAS NO - TP)	9/30/1994	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	9/26/1995	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	10/10/1996	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.031	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	10/10/1997	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.021	< 0.02	< 0.02	< 0.02	0.024	< 0.02	0.111	< 0.02	0.467	< 0.02	N/A
	10/19/1998	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	0.146	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/18/1999	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.401
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3
	10/2/2013	< 0.02	< 0.0196	< 0.0204	< 0.0204	< 0.02	< 0.02	< 0.0196	< 0.0212	0.0744	< 0.0188	0.0929	< 0.018	< 0.0172	< 0.0188	< 0.0188	< 0.02	< 0.0188	< 0.0192	0.326*
	10/1/2014	< 0.0196	< 0.02	0.032	< 0.0184	N/A	N/A	N/A	N/A	< 0.0392	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/2015	< 0.018	< 0.02	< 0.0184	< 0.0184	N/A	N/A	N/A	N/A	< 0.018	N/A	0.0348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2016	< 0.0192	< 0.0184	< 0.018	< 0.0184	N/A	N/A	N/A	N/A	0.00718*	N/A	0.186	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.436
	10/5/2017	< 0.0196	N/A	N/A	< 0.0192	N/A	N/A	N/A	N/A	0.0314	N/A	0.0554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	< 0.0204	N/A	< 0.0204	N/A	N/A	N/A	N/A	0.0158*	N/A	0.171	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0384
	9/10/2019	N/A	< 0.0204	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02	N/A	0.0553	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	< 0.0192	N/A	< 0.0188	N/A	N/A	N/A	N/A	< 0.0184	N/A	0.0467	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0153*
	8/17/2021	N/A	< 0.0184	N/A	< 0.0188	N/A	N/A	N/A	N/A	< 0.0192	N/A	0.0283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0787
	8/9/2022	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02	N/A	0.0301	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	< 0.0204	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0391
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	< 0.02	N/A	< 0.0192	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.0208	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	10/2/2013	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.22
	10/2/2013	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 12
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 101
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 123
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.43
	10/2/2013	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 14
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	10/2/2013	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	10/2/2013	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	< 40
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 40	< 4	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	N/A	< 40	N/A	N/A	N/A	N/A	N/A	< 40
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	N/A	< 40	< 40	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 40	< 4	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3.27
	10/2/2013	< 0.323	< 0.323	< 0.327	< 0.323	< 0.348	< 0.323	< 0.327	< 0.323	< 0.323	< 0.32	< 0.323	< 0.323	< 0.344	< 0.32	< 0.33	< 0.337	< 0.323	< 0.327	< 32
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.24
	10/2/2013	< 0.222	< 0.222	< 0.224	< 0.222	< 0.239	< 0.222	< 0.224	< 0.222	< 0.222	< 0.22	< 0.222	< 0.222	< 0.237	< 0.22	< 0.227	< 0.232	< 0.222	< 0.224	< 22
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.53
	10/2/2013	< 0.152	< 0.152	< 0.153	< 0.152	< 0.163	< 0.152	< 0.153	< 0.152	< 0.152	< 0.15	< 0.152	< 0.152	< 0.161	< 0.15	< 0.155	< 0.158	< 0.152	< 0.153	< 15
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.14
	10/2/2013	< 0.212	< 0.212	< 0.214	< 0.212	< 0.228	< 0.212	< 0.214	< 0.212	< 0.212	< 0.21	4.31*	< 0.212	< 0.226	< 0.21	< 0.216	< 0.221	< 0.212	< 0.214	< 21
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3190
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 13.7
	10/2/2013	< 1.35	< 1.35	< 1.37	< 1.35	< 1.46	< 1.35	< 1.37	< 1.35	< 1.35	< 1.34	< 1.35	< 1.35	< 1.44	< 1.34	< 1.38	< 1.41	< 1.35	< 1.37	< 134
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 202
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 247
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 18.5
2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.94
	10/2/2013	< 0.192	< 0.192	< 0.194	< 0.192	< 0.207	< 0.192	< 0.194	< 0.192	< 0.192	< 0.19	< 0.192	< 0.192	< 0.204	< 0.19	< 0.196	< 0.2	< 0.192	< 0.194	< 19
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26

SCS ENGINEERS

Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.45
	10/2/2013	< 0.242	< 0.242	< 0.245	< 0.242	< 0.261	< 0.242	< 0.245	< 0.242	< 0.242	< 0.24	< 0.242	< 0.242	< 0.258	< 0.24	< 0.247	< 0.253	< 0.242	< 0.245	209*
	10/15/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 245
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.35
	10/2/2013	< 0.232	< 0.232	< 0.235	< 0.232	< 0.25	< 0.232	< 0.235	< 0.232	< 0.232	< 0.23	< 0.232	< 0.232	< 0.247	< 0.23	< 0.237	< 0.242	< 0.232	< 0.235	< 23
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.53
	10/2/2013	< 0.152	< 0.152	< 0.153	< 0.152	< 0.163	< 0.152	< 0.153	< 0.152	< 0.152	< 0.15	< 0.152	< 0.152	< 0.161	< 0.15	< 0.155	< 0.158	< 0.152	< 0.153	< 15
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2-Methylphenol, ug/L (CAS NO - 95-48-7)	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.363*
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.32*
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.63
	10/2/2013	< 0.162	< 0.162	< 0.163	< 0.162	< 0.174	< 0.162	< 0.163	< 0.162	< 0.162	< 0.16	< 0.162	< 0.162	< 0.172	< 0.16	< 0.165	< 0.168	< 0.162	< 0.163	< 16
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4.69
	10/2/2013	< 0.465	< 0.465	< 0.469	< 0.465	< 0.5	< 0.465	< 0.469	< 0.465	< 0.465	< 0.46	< 0.465	< 0.465	< 0.495	< 0.46	< 0.474	< 0.484	< 0.465	< 0.469	< 46
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.84*
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	103
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.7*
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 22.7
	10/2/2013	< 2.24	< 2.24	< 2.27	< 2.24	< 2.41	< 2.24	< 2.27	< 2.24	< 2.24	< 2.22	< 2.24	< 2.24	< 2.39	< 2.22	< 2.29	< 2.34	< 2.24	< 2.27	< 222
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26

SCS ENGINEERS

Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.96
	10/2/2013	< 0.293	< 0.293	< 0.296	< 0.293	< 0.315	< 0.293	< 0.296	< 0.293	< 0.293	< 0.29	< 0.293	< 0.293	< 0.312	< 0.29	< 0.299	< 0.305	< 0.293	< 0.296	< 29
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.94
	10/2/2013	< 0.192	< 0.192	< 0.194	< 0.192	< 0.207	< 0.192	< 0.194	< 0.192	< 0.192	< 0.19	< 0.192	< 0.192	< 0.204	< 0.19	< 0.196	< 0.2	< 0.192	< 0.194	< 19
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.43
	10/2/2013	< 0.141	< 0.141	< 0.143	< 0.141	< 0.152	< 0.141	< 0.143	< 0.141	< 0.141	< 0.14	< 0.141	< 0.141	< 0.151	< 0.14	< 0.144	< 0.147	< 0.141	< 0.143	< 14
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.55
	10/2/2013	< 0.253	< 0.253	< 0.255	< 0.253	< 0.272	< 0.253	< 0.255	< 0.253	< 0.253	< 0.25	< 0.253	< 0.253	< 0.269	< 0.25	< 0.258	< 0.263	< 0.253	< 0.255	< 25
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
4-Nitroaniline, ug/L (CAS NO - 100-01-6)	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.22
	10/2/2013	< 0.121	< 0.121	< 0.122	< 0.121	< 0.13	< 0.121	< 0.122	< 0.121	< 0.121	< 0.12	< 0.121	< 0.121	< 0.129	< 0.12	< 0.124	< 0.126	< 0.121	< 0.122	< 12
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Acenaphthene, ug/L (CAS NO - 83-32-9)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0224
	10/2/2013	< 0.0222	< 0.0222	< 0.0222	< 0.0222	< 0.0222	< 0.0222	< 0.0224	< 0.0222	< 0.0222	< 0.0227	< 0.022	< 0.0224	< 0.0222	< 0.0222	< 0.0224	< 0.022	< 0.0222	< 0.0224	< 0.22
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	104	N/A	< 0.98	< 0.98	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.03	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.01	N/A	< 1.14	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.08	N/A	< 1.08	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	0.358	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	0.157	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	0.483	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.258	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	0.149*	N/A	N/A	N/A	N/A	N/A	N/A
Acenaphthylene, ug/L (CAS NO - 208-96-8)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0888
	10/2/2013	< 0.0879	< 0.0879	< 0.0879	< 0.0879	< 0.0879	< 0.0879	< 0.0888	< 0.0879	< 0.0879	< 0.0897	< 0.087	< 0.0888	< 0.0879	< 0.0879	< 0.0888	< 0.087	< 0.0879	< 0.0888	< 0.87
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.498*	N/A	< 0.98	< 0.98	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.31	N/A	2.75	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.446*	N/A	0.904*	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.312*	N/A	< 1.08	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Acrolein, ug/L (CAS NO - 107-02-8)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1000
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.5
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 15
Anthracene, ug/L (CAS NO - 120-12-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0102
	10/2/2013	< 0.0101	< 0.0101	< 0.0101	< 0.0101	< 0.0101	< 0.0101	< 0.0102	< 0.0101	< 0.0101	< 0.0103	< 0.01	< 0.0102	< 0.0101	< 0.0101	< 0.0102	< 0.01	< 0.0101	< 0.0102	< 0.1
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.98	N/A	< 0.98	< 0.98	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.03	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.01	N/A	< 1.14	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.323	N/A	< 0.323	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	0.113*	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0204
	10/2/2013	< 0.0202	< 0.0202	< 0.0202	< 0.0202	< 0.0202	< 0.0202	< 0.0204	< 0.0202	< 0.0202	< 0.0206	< 0.02	< 0.0204	< 0.0202	< 0.0202	< 0.0204	< 0.02	< 0.0202	< 0.0204	< 0.2
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.196	N/A	< 0.196	< 0.196	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.205	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.203	N/A	< 0.227	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.215	N/A	< 0.215	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.00816
	10/2/2013	< 0.00808	< 0.00808	< 0.00808	< 0.00808	< 0.00808	< 0.00808	< 0.00816	< 0.00808	< 0.00808	< 0.00825	< 0.008	< 0.00816	< 0.00808	< 0.00808	< 0.00816	< 0.008	< 0.00808	< 0.00816	< 0.08
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.098	N/A	< 0.098	< 0.098	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.103	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.101	N/A	< 0.114	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.215	N/A	< 0.215	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0286
	10/2/2013	< 0.0283	< 0.0283	< 0.0283	< 0.0283	< 0.0283	< 0.0283	< 0.0286	< 0.0283	< 0.0283	< 0.0289	< 0.028	< 0.0286	< 0.0283	< 0.0283	< 0.0286	< 0.028	< 0.0283	< 0.0286	< 0.28
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.098	N/A	< 0.098	< 0.098	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.103	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.101	N/A	< 0.114	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.215	N/A	< 0.215	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.00816
	10/2/2013	< 0.00808	< 0.00808	< 0.00808	< 0.00808	< 0.00808	< 0.00808	< 0.00816	< 0.00808	< 0.00808	< 0.00825	< 0.008	< 0.00816	< 0.00808	< 0.00808	< 0.00816	< 0.008	< 0.00808	< 0.00816	< 0.08
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.196	N/A	< 0.196	< 0.196	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.205	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.203	N/A	< 0.227	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.215	N/A	< 0.215	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.00714
	10/2/2013	< 0.00707	< 0.00707	< 0.00707	< 0.00707	< 0.00707	< 0.00707	< 0.00714	< 0.00707	< 0.00707	< 0.00722	< 0.007	< 0.00714	< 0.00707	< 0.00707	< 0.00714	< 0.007	< 0.00707	< 0.00714	< 0.07
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.137	N/A	< 0.137	< 0.137	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.144	N/A	< 0.14	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.142	N/A	< 0.159	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.215	N/A	< 0.215	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.65
	10/2/2013	< 0.263	< 0.263	< 0.265	< 0.263	< 0.283	< 0.263	< 0.265	< 0.263	< 0.263	< 0.26	< 0.263	< 0.263	< 0.28	< 0.26	< 0.268	< 0.274	< 0.263	< 0.265	< 26
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	93.3*
	10/2/2013	< 0.182	< 0.182	< 0.184	< 0.182	< 0.196	< 0.182	< 0.184	< 0.182	< 0.182	< 0.18	< 0.182	< 0.182	< 0.194	< 0.18	< 0.186	< 0.189	< 0.182	< 0.184	< 18
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.84
	10/2/2013	< 0.182	< 0.182	< 0.184	< 0.182	< 0.196	< 0.182	< 0.184	< 0.182	< 0.182	< 0.18	< 0.182	< 0.182	< 0.194	< 0.18	< 0.186	< 0.189	< 0.182	< 0.184	< 18
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3.98
	10/2/2013	1.28*	2.91*	4.25*	0.502*	0.431*	13.5	19	11.9	17.5	10.9	11.9	10.9	1.12*	0.575*	12.4	0.433*	4.74*	0.851*	< 39
	10/1/2014	< 0.39	< 0.39	< 0.39	< 0.39	N/A	< 0.39	< 0.39	< 0.39	< 0.406	N/A	< 0.402	< 0.39	N/A	N/A	< 0.39	N/A	N/A	N/A	N/A
	10/1/2015	1.97*	2.42*	3.42*	2.43*	N/A	0.887*	6.55*	< 0.394	14.2	N/A	1.45*	< 0.398	N/A	N/A	1.32*	N/A	N/A	N/A	N/A
	10/12/2016	0.885*	0.831*	0.86*	0.853*	N/A	0.873*	0.93*	0.843*	< 104	N/A	< 105	0.891*	N/A	N/A	0.908*	N/A	N/A	N/A	1.26*
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.91*	N/A	0.892*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 52.6	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	2.44*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 12.3	N/A	< 12.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.8	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.8
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3.47
	10/2/2013	< 0.343	< 0.343	< 0.347	< 0.343	< 0.37	< 0.343	< 0.347	< 0.343	< 0.343	< 0.34	< 0.343	< 0.343	< 0.366	< 0.34	< 0.351	< 0.358	< 0.343	< 0.347	< 34
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.676*
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Chrysene, ug/L (CAS NO - 218-01-9)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.00816
	10/2/2013	< 0.00808	< 0.00808	< 0.00808	< 0.00808	< 0.00808	< 0.00808	< 0.00816	< 0.00808	< 0.00808	< 0.00825	< 0.008	< 0.00816	< 0.00808	< 0.00808	< 0.00816	< 0.008	< 0.00808	< 0.00816	< 0.08
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.098	N/A	< 0.098	< 0.098	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.103	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.101	N/A	< 0.114	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.215	N/A	< 0.215	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Cyanide, mg/L (CAS NO - 57-12-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0113**
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0117**
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0151**
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.03**
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0211**
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0235**
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0122**
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.033**
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0102
	10/2/2013	< 0.0101	< 0.0101	< 0.0101	< 0.0101	< 0.0101	< 0.0101	< 0.0102	< 0.0101	< 0.0101	< 0.0103	< 0.01	< 0.0102	< 0.0101	< 0.0101	< 0.0102	< 0.01	< 0.0101	< 0.0102	< 0.1
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.196	N/A	< 0.196	< 0.196	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.205	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.203	N/A	< 0.227	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.323	N/A	< 0.323	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Dibenzofuran, ug/L (CAS NO - 132-64-9)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.45
	10/2/2013	< 0.242	< 0.242	< 0.245	< 0.242	< 0.261	< 0.242	< 0.245	< 0.242	< 0.242	< 0.24	< 0.242	< 0.242	< 0.258	< 0.24	< 0.247	< 0.253	< 0.242	< 0.245	< 24
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	10/2/2013	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	< 30
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 30	< 3	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	N/A	< 30	N/A	N/A	N/A	N/A	N/A	< 30
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	N/A	< 30	< 30	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 30	< 3	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A
Diethyl phthalate, ug/L (CAS NO - 84-66-2)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.65
	10/2/2013	< 0.263	< 0.263	< 0.265	< 0.263	< 0.283	< 0.263	< 0.265	< 0.263	< 0.263	< 0.26	< 0.263	< 0.263	< 0.28	0.323*	< 0.268	< 0.274	< 0.263	< 0.265	< 26
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.35
	10/2/2013	< 0.232	< 0.232	< 0.235	< 0.232	< 0.25	< 0.232	< 0.235	< 0.232	< 0.232	< 0.23	< 0.232	< 0.232	< 0.247	< 0.23	< 0.237	< 0.242	< 0.232	< 0.235	< 23
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5.2
	10/2/2013	< 0.515	< 0.515	< 0.52	< 0.515	< 0.554	< 0.515	< 0.52	< 0.515	< 0.515	< 0.51	< 0.515	< 0.515	< 0.548	< 0.51	< 0.526	< 0.537	< 0.515	< 0.52	< 51
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3190
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.35
	10/2/2013	< 0.232	< 0.232	< 0.235	< 0.232	< 0.25	< 0.232	0.497*	< 0.232	0.814*	< 0.23	< 0.232	< 0.232	< 0.247	0.423*	< 0.237	< 0.242	< 0.232	< 0.235	< 23
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.77*
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 202
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 247
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.3*
Fluoranthene, ug/L (CAS NO - 206-44-0)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0102
	10/2/2013	< 0.0101	< 0.0101	< 0.0101	< 0.0101	< 0.0101	< 0.0101	< 0.0102	< 0.0101	< 0.0101	< 0.0103	< 0.01	< 0.0102	< 0.0101	< 0.0101	< 0.0102	< 0.01	< 0.0101	< 0.0102	< 0.1
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.196	N/A	0.235	< 0.196	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.205	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.203	N/A	0.203*	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.431	N/A	< 0.431	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Fluorene, ug/L (CAS NO - 86-73-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0163
	10/2/2013	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0162	< 0.0163	< 0.0162	< 0.0162	< 0.0165	< 0.016	< 0.0163	0.352	< 0.0162	< 0.0163	< 0.016	< 0.0162	< 0.0163	< 0.16
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.736	N/A	0.318*	< 0.49	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.513	N/A	0.293*	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.507	N/A	0.0605*	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.323	N/A	0.435	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	0.221	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	0.386	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.168*	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	0.0781*	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.76
	10/2/2013	< 0.273	< 0.273	< 0.276	< 0.273	< 0.293	< 0.273	< 0.276	< 0.273	< 0.273	< 0.27	< 0.273	< 0.273	< 0.29	< 0.27	< 0.278	< 0.284	< 0.273	< 0.276	< 27
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.33
	10/2/2013	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 13
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 50
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 19.3
	10/2/2013	< 1.91	< 1.91	< 1.93	< 1.91	< 2.05	< 1.91	< 1.93	< 1.91	< 1.91	< 1.89	< 1.91	< 1.91	< 2.03	< 1.89	< 1.95	< 1.99	< 1.91	< 1.93	< 189
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Hexachloroethane, ug/L (CAS NO - 67-72-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.33
	10/2/2013	< 0.131	< 0.131	< 0.133	< 0.131	< 0.141	< 0.131	< 0.133	< 0.131	< 0.131	< 0.13	< 0.131	< 0.131	< 0.14	< 0.13	< 0.134	< 0.137	< 0.131	< 0.133	< 13
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.00612
	10/2/2013	< 0.00606	< 0.00606	< 0.00606	< 0.00606	< 0.00606	< 0.00606	< 0.00612	< 0.00606	< 0.00606	< 0.00619	< 0.006	< 0.00612	< 0.00606	< 0.00606	< 0.00612	< 0.006	< 0.00606	< 0.00612	< 0.06
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.196	N/A	< 0.196	< 0.196	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.205	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.203	N/A	< 0.227	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.215	N/A	< 0.215	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Isophorone, ug/L (CAS NO - 78-59-1)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.24
	10/2/2013	< 0.222	< 0.222	< 0.224	< 0.222	< 0.239	< 0.222	< 0.224	< 0.222	< 0.222	< 0.22	< 0.222	< 0.222	< 0.237	< 0.22	< 0.227	< 0.232	< 0.222	< 0.224	< 22
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Naphthalene, ug/L (CAS NO - 91-20-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0469
	10/2/2013	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	0.483*	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.46
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.98	N/A	< 0.98	< 0.98	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	0.535*	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 101
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.349*	N/A	< 1.08	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.538	N/A	< 0.532	N/A	N/A	N/A	N/A	N/A	< 123
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.526	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 0.532	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.51	N/A	< 0.463	< 5	N/A	N/A	N/A	N/A	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.472	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.521	N/A	< 0.5	< 5	N/A	N/A	N/A	N/A	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene, ug/L (CAS NO - 98-95-3)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.24
	10/2/2013	< 0.222	< 0.222	< 0.224	< 0.222	< 0.239	< 0.222	< 0.224	< 0.222	< 0.222	< 0.22	< 0.222	< 0.222	< 0.237	< 0.22	< 0.227	< 0.232	< 0.222	< 0.224	< 22
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
N-Nitrosodimethylamine, ug/L (CAS NO - 62-75-9)	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.43
	10/2/2013	< 0.141	< 0.141	< 0.143	1.43*	< 0.152	< 0.141	< 0.143	< 0.141	< 0.141	< 0.14	< 0.141	< 0.141	< 0.151	< 0.14	< 0.144	< 0.147	< 0.141	< 0.143	< 14
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
N-Nitrosodi-n-propylamine, ug/L (CAS NO - 621-64-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.65
	10/2/2013	< 0.263	< 0.263	< 0.265	< 0.263	< 0.283	< 0.263	< 0.265	< 0.263	< 0.263	< 0.26	< 0.263	< 0.263	< 0.28	< 0.26	< 0.268	< 0.274	< 0.263	< 0.265	< 26
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 6.73
	10/2/2013	< 0.667	< 0.667	< 0.673	< 0.667	< 0.717	< 0.667	< 0.673	< 0.667	< 0.667	< 0.66	< 0.667	< 0.667	< 0.71	< 0.66	< 0.68	< 0.695	< 0.667	< 0.673	< 66
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.45
	10/2/2013	< 0.242	< 0.242	< 0.245	< 0.242	< 0.261	< 0.242	< 0.245	< 0.242	< 0.242	< 0.24	< 0.242	< 0.242	< 0.258	< 0.24	< 0.247	< 0.253	< 0.242	< 0.245	< 24
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26

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Summary of Groundwater Chemistry
Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Phenanthrene, ug/L (CAS NO - 85-01-8)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0051
	10/2/2013	< 0.00505	< 0.00505	< 0.00505	< 0.00505	< 0.00505	< 0.00505	0.0351*	0.0309*	0.0554*	0.0388*	< 0.005	0.0296*	**0.309**	< 0.00505	0.0155*	< 0.005	< 0.00505	< 0.0051	< 0.05
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.49	N/A	**2.7**	< 0.49	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.513	N/A	**0.842**	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.507	N/A	< 0.569	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.323	N/A	< 0.323	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	**0.224**	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	**0.496**	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.175*	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene, ug/L (CAS NO - 129-00-0)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0173
	10/2/2013	< 0.0172	< 0.0172	< 0.0172	< 0.0172	< 0.0172	< 0.0172	< 0.0173	< 0.0172	< 0.0172	< 0.0175	< 0.017	< 0.0173	< 0.0172	< 0.0172	< 0.0173	< 0.017	< 0.0172	< 0.0173	< 0.17
	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.196	N/A	0.174*	< 0.196	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.205	N/A	0.0897*	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.203	N/A	0.0523*	N/A	N/A	N/A	N/A	N/A	< 101
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.215	N/A	< 0.215	N/A	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.108	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	< 123
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.105	N/A	< 0.106	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.204	N/A	< 0.185	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.189	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.208	N/A	< 0.2	N/A	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

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Total Natural_Attenuations Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Ammonia as N, mg/L (CAS NO - 7664-41-7)	6/7/1993	0.24	3.1	0.51	0.94	6.5	< 0.2	69	4.2	560	0.24	870	4.3	24	0.74	160	0.83	11	< 0.2	N/A
	9/14/1993	< 0.2	2.8	< 0.2	2.2	7.5	< 0.2	74	140	1000	< 0.2	240	3	24	1.4	240	1.5	17	< 0.2	N/A
	12/8/1993	< 0.2	3.6	0.45	5.9	8.2	< 0.2	67	150	970	0.78	8.8	2.7	23	1.9	76	2.1	79	< 0.2	N/A
	3/22/1994	2.41	2.2	0.2	1.6	7.8	< 0.2	61	120	700	< 0.2	310	2.3	26	1.8	100	0.95	150	< 0.2	N/A
	9/30/1994	< 0.2	3.3	1.5	3.1	5.8	< 0.2	70	92	840	< 0.2	670	2.1	18	1.1	19	0.75	65	< 0.2	N/A
	3/16/1995	< 2	1.1	0.6	1.5	3.4	< 0.2	97	160	1000	< 0.2	850	1.3	30	3.5	40	0.6	240	< 0.2	N/A
	9/26/1995	1.8	< 0.2	3	3.4	5.2	< 0.2	84	150	940	< 0.2	480	1.5	38	3.7	20	1	400	< 0.2	N/A
	5/13/1996	< 0.2	1.1	2.4	1.7	3.3	< 0.2	100	310	610	< 0.2	540	6.6	11	2.4	190	< 0.2	200	< 0.2	N/A
	10/10/1996	< 0.2	4.3	1.5	4.5	4.4	< 0.2	71	170	870	1.5	610	0.82	32	73	30	5	200	0.94	N/A
	6/19/1997	< 0.2	3.9	< 0.2	3.9	2.7	< 0.2	16	150	890	< 0.2	520	3.8	19	18	20	0.86	120	< 0.2	N/A
	10/10/1997	1	5.3	< 0.2	5.5	4.6	< 0.2	61	190	890	< 0.2	5.5	0.61	78	54	23	2.6	120	< 0.2	N/A
	5/19/1998	< 0.2	3.1	< 0.2	4.9	2.3	< 0.2	49	150	750	< 0.2	460	< 0.2	26	87	28	< 0.2	84	< 0.2	N/A
	10/19/1998	< 0.2	0.23	< 0.2	0.54	4.1	< 0.2	31	220	1200	< 0.2	520	< 0.2	21	39	9	2.3	230	< 0.2	N/A
	4/20/1999	< 0.2	1.9	< 0.2	0.84	4.4	< 0.2	77	120	560	< 0.2	480	0.25	27	57	75	3.3	78	0.48	N/A
	10/18/1999	< 0.2	3.6	< 0.2	4	3.9	< 0.2	74	190	800	< 0.2	430	< 0.2	31	82	20	9.2	91	< 0.2	N/A
	4/18/2000	N/A	1.57	N/A	3.21	4.17	N/A	64.3	N/A	712	N/A	552	N/A	27.2	N/A	18.8	3.46	N/A	< 0.2	N/A
	10/10/2000	N/A	0.111	N/A	0.639	< 0.1	N/A	12.2	N/A	443	N/A	213	N/A	16.7	N/A	16.9	1	N/A	0.432	N/A
	4/25/2001	N/A	< 0.1	N/A	< 0.1	1.41	N/A	34.9	N/A	162	N/A	390	N/A	9.7	N/A	30.4	0.16	N/A	< 0.1	N/A
	10/17/2001	< 0.1	1.29	N/A	3.17	6.21	< 0.1	57.8	133	565	3.54	330	1.48	25.9	52.3	36.7	8.86	88.3	1.92	N/A
	4/1/2002	N/A	0.23	N/A	0.49	4	N/A	100	N/A	770	N/A	480	N/A	34	N/A	3.1	2.8	N/A	< 0.2	N/A
	10/1/2002	< 0.1	1.5	N/A	3.7	2.2	< 0.1	71	220	930	< 0.1	380	< 0.1	20	59	35	8.7	1.4	< 0.1	N/A
	4/21/2003	N/A	< 0.2	N/A	1.1	3.16	N/A	76.3	N/A	980	N/A	439	N/A	26.4	N/A	18.2	7.85	N/A	0.22	N/A
	9/24/2003	< 0.2	0.79	< 0.2	< 0.2	3.47	< 0.2	74.8	242	875	1.22	486	< 0.2	31.3	54.8	11.7	3.12	128	< 0.2	N/A
	4/9/2004	N/A	0.52	N/A	< 0.2	2.82	N/A	133	N/A	598	N/A	651	N/A	26.3	N/A	31.1	< 0.2	N/A	< 0.2	N/A
	10/19/2004	< 0.2	1.12	< 0.2	1.32	3.3	< 0.2	67.5	261	757	1.04	438	< 0.2	29.7	47.1	11.5	1.24	95.1	< 0.2	N/A
	4/5/2005	N/A	< 0.2	N/A	< 0.2	3.27	N/A	95.3	N/A	594	N/A	559	N/A	31.1	N/A	17.2	1.28	N/A	< 0.2	N/A
	10/20/2005	< 0.2	0.28	1.05	< 0.2	3.19	< 0.2	91.6	199	549	1.76	535	< 0.2	15.8	41.7	53	1.2	26.2	< 0.2	N/A
	4/17/2006	N/A	< 0.2	N/A	< 0.2	2.53	N/A	143	N/A	468	N/A	476	N/A	16.4	N/A	41.1	0.95	N/A	< 0.2	N/A
	10/17/2006	< 0.2	0.937	< 0.2	0.593	3.34	< 0.2	149	248	368	1.95	573	< 0.2	15.4	44.8	9.94	0.967	74.2	< 0.2	N/A
	4/23/2007	N/A	0.387	N/A	0.397	2.78	N/A	124	N/A	433	N/A	481	N/A	27.5	N/A	16.8	< 0.2	N/A	< 0.2	N/A
	10/9/2007	< 0.2	0.827	< 0.2	2.01	2.56	< 0.2	125	209	595	1.72	477	0.761	29.6	30.1	17.8	0.752	12.2	< 0.2	N/A
	4/14/2008	N/A	< 0.2	N/A	< 0.2	3.14	N/A	186	N/A	460	N/A	500	N/A	24.9	N/A	36.6	< 0.2	N/A	< 0.2	N/A
	10/23/2008	< 0.2	0.366	< 0.2	2.54	3.47	< 0.2	90.2	273	722	< 0.2	527	< 0.2	28.1	36.8	16.4	7.26	34.4	< 0.2	N/A
	4/14/2009	N/A	< 0.2	N/A	0.915	3.01	N/A	114	N/A	808	N/A	522	N/A	31.6	N/A	47	< 0.2	N/A	< 0.2	N/A
	10/9/2009	< 0.2	0.828	< 0.2	2.97	3.37	< 0.2	66.7	319	824	< 0.2	479	< 0.2	29.4	25.6	55.4	1.23	54.3	< 0.2	N/A
	4/7/2010	N/A	< 0.2	N/A	0.948	3.26	N/A	113	N/A	615	N/A	479	N/A	26.3	N/A	51.8	0.423	N/A	< 0.2	N/A
	10/26/2010	< 0.2	0.682	< 0.2	4.68	2.13	< 0.2	81	< 0.2	711	< 0.2	434	< 0.2	35.9	26.8	59	0.622	< 0.2	< 0.2	N/A
	4/13/2011	N/A	1.03	N/A	3.49	3.56	N/A	78.9	N/A	527	N/A	435	N/A	23.2	N/A	66.6	0.71	N/A	< 0.2	N/A
	10/27/2011	< 0.2	1.65	< 0.2	5.34	2.6	< 0.2	87.7	63.8	882	0.256	370	28.6	34.3	27.5	69.2	0.605	0.23	< 0.2	N/A
	4/24/2012	N/A	1.37	N/A	2.29	3.36	N/A	70.7	N/A	1020	N/A	435	N/A	33.8	N/A	74.2	0.219	N/A	< 0.2	N/A
	10/23/2012	< 0.2	< 0.2	< 0.2	2.71	3.17	3.2	72.8	< 0.2	1020	< 0.2	426	5.77	37.7	14.8	91.6	0.541	0.489	< 0.2	4190
	4/2/2013	< 0.2	0.46	< 0.2	< 0.2	3.68	< 0.2	72.9	< 0.2	1180	< 0.2	489	2.68	25.8	43.8	68.8	0.118*	9.77	< 0.2	4280
	10/2/2013	< 0.2	0.663	< 0.2	2.09	3.02	< 0.2	96.7	200	777	< 0.2	386	4.19	33.8	38.7	67.1	1.48	17.9	< 0.2	3690
	4/1/2014	< 0.2	< 0.2	< 0.2	< 0.2	3.35	< 0.2	128	310	1090	< 0.2	358	3.3	24.6	48.3	49.7	0.875	49.3	< 0.2	N/A
	10/1/2014	< 0.2	1.85	< 0.2	2.86	3.43	< 0.2	83.1	306	947	< 0.2	408	10	35.7	48.3	56.7	5.35	17.4	< 0.2	N/A
	4/29/2015	< 0.2	< 0.2	< 0.2	0.26	3.18	< 0.2	105	300	942	< 0.2	412	3.43	33.2	56	55.9	1.9	37.2	< 0.2	N/A
	10/1/2015	< 0.2	1.59	< 0.2	1.07	3.22	< 0.2	82.1	304	756	< 0.2	417	1.81	34.8	54.1	60.2	1.62	26.1	< 0.2	N/A
	4/25/2016	< 0.2	1.91	< 0.2	1.06	1.89	< 0.2	72.2	< 0.2	888	< 0.2	388	2.61	32.1	54.8	69.7	< 0.2	1.37	< 0.2	N/A
	10/12/2016	< 0.2	1.89	< 0.2	5.63	2.85	< 0.2	< 0.2	< 0.2	738	< 0.2	< 0.2	0.908	33.6	< 0.2	0.853	0.159*	< 0.2	< 0.2	876
	4/12/2017	< 0.2	1.92	< 0.2	1.21	2.22	< 0.2	46.7	N/A	967	< 0.2	373	0.602	31.6	47.2	75.4	0.275	< 0.2	< 0.2	N/A
	10/5/2017	< 0.2	2.16	< 0.2	3.39	2.07	< 0.2	67.3	< 0.2	808	< 0.2	331	0.136*	31.7	35.1	62.1	5.46	< 0.2	< 0.2	N/A
	5/9/2018	< 0.2	2.2	< 0.2	3.14	3.48	< 0.2	80.1	153	722	< 0.2	374	1.56	27.4	34.5	56.4	1.7	0.559	< 0.2	N/A
	9/10/2018	< 0.2	2.53	< 0.2	5.42	3.17	< 0.2	82.4	130	947	< 0.2	363	0.328	24.4	37.4	71.7	0.64	< 0.2	< 0.2	824
	3/27/2019	< 0.2	2.25	< 0.2	2.8	3.46	< 0.2	79.1	202	647	< 0.2	335	1.17	23.1	29.1	62.9	0.485	0.309	< 0.2	N/A
	9/10/2019	< 0.2	3	< 0.2	5.4	2.09	< 0.2	81.5	269	987	< 0.2	347	5.64	37.1	32.9	69.3	5.25	0.148*	< 0.2	N/A
	3/2/2020	< 0.2	2.9	< 0.2	2.48	1.44	< 0.2	75	244	1090	0.347	296	4.68	32.1	29	68.2	6.89	< 0.2	< 0.2	N/A
	8/26/2020	< 0.2	3.66	< 0.2	7.19	1.22	< 0.2	73.3	262	1070	< 0.2	320	5.69	36.3	27	65.1	6.57	< 0.2	< 0.2	798
	5/4/2021	< 0.2	3.36	< 0.2	3.85	2.29	< 0.2	70.2	222	1030	< 0.2	311	0.294	32.2	24	61.4	4.62	< 0.2	< 0.2	N/A
	5/4/2021	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/17/2021	< 0.2	3.65	< 0.2	6.9	2.87	< 0.2	71.2	243	1020	< 0.2	332	0.234	37	23.4	66.6	4.56	< 0.2	< 0.2	N/A
	8/17/2021	N/A	N/A	N/A	N/A	2.95	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	< 0.2	< 0.2	< 0.2	< 0.2	3.05	0.263	65.1	246	1150	1.43	351	< 0.2	32.7	19.6	64.7	2.41	< 0.2	< 0.2	787
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A
	8/9/2022	< 0.2	3.13	< 0.2	2.24	2.42	< 0.2	71.2	236	1040	0.685	295	0.192*	35.5	17	62.9	1.77	< 0.2	< 0.2	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/14/2023	0.141*	0.246	0.151*	0.37	1.6	0.223	70.9	90.6	1300	0.112*	17.7	0.217	33.6	20.6	12.5	0.871	0.15*	0.159*	N/A
	2/14/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A
	7/19/2023	< 0.2	3.2	< 0.2	4.52	N/A	< 0.2	N/A	231	N/A	< 0.2	N/A	3.34	38.9	17.7	71.1	4.69	< 0.2	< 0.2	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	< 0.2	2.05	< 0.2	0.244	2.22	< 0.2	71.4	128	104	< 0.2	326	0.195*	32.1	16.1	< 0.2	< 0.2	68.5	< 0.2	776
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A
	7/16/2024	< 0.2	1.95	< 0.2	2.63	3.08	< 0.2	125	167	572	< 0.2	389	9.38	26.1	17.7	59.3	11.5	< 0.2	< 0.2	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Total Natural_Attenuations Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Iron, Total, mg/L (CAS NO - 7439-89-6)	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.5
	10/1/2014	< 0.1	< 0.1	< 0.1	0.887	34.6	< 0.1	29.1	4.16	3.26	< 0.1	< 0.2	< 0.1	69.5	34.3	39.4	0.21	0.163	< 0.1	N/A
	10/1/2015	< 0.1	< 0.1	< 0.1	0.677	33.8	< 0.1	33.3	5.18	3.01	0.123	< 0.252	< 0.1	75.2	49.2	41.7	2.08	< 0.1	< 0.1	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.53
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.392
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.35*
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.7
	2/14/2023	< 0.1	< 0.1	< 0.1	0.325	11.7	< 0.1	41.3	2.44	0.499	< 0.1	7.56	0.209	56.3	27.7	28.9	0.0385*	< 0.1	0.0638*	N/A
	2/14/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0568*	N/A
	7/19/2023	< 0.1	0.165	< 0.1	1.88	N/A	< 0.1	N/A	8.76	N/A	< 0.1	N/A	0.462	27.4	29.4	27.3	< 0.4	< 0.1	< 0.1	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	< 0.1	< 0.1	< 0.1	0.313	31.2	0.0535*	38.9	14.3	0.583*	< 0.1	< 0.4	0.206	69.4	26.8	0.0563*	< 0.1	19.6	0.0667*	4.38
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0582*	N/A
	7/16/2024	< 0.1	0.0789*	< 0.1	2.02	42.7	< 0.1	39.9	11.3	11.1	< 0.1	0.0497*	1.4	63.6	25	29.2	< 0.1	< 0.1	< 0.1	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese, mg/L (CAS NO - 7439-96-5)	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.122
	10/1/2014	< 0.01	0.286	1.73	0.482	6.35	N/A	2.76	0.331	0.665	N/A	1.43	0.0514	1.67	0.468	4.02	3.07	N/A	N/A	N/A
	10/1/2015	< 0.01	0.0854	1.47	0.379	5.99	N/A	2.79	0.256	0.598	N/A	1.27	< 0.01	1.34	0.861	2.98	2.95	N/A	N/A	N/A
	10/12/2016	< 0.01	0.387	0.815	0.285	5.25	N/A	1.33	< 0.01	0.619	N/A	1.19	0.561	0.859	3.46	1.39	2.08	N/A	N/A	0.226
	10/5/2017	< 0.01	0.572	0.765	0.363	5.13	N/A	2.2	< 0.01	0.368	N/A	1.1	0.0868	0.816	0.968	2.11	1.96	N/A	N/A	N/A
	5/9/2018	< 0.01	0.672	0.545	0.402	6.69	N/A	2.81	0.233	0.106	N/A	1.19	0.106	1.66	0.903	2.17	2.74	N/A	N/A	N/A
	9/10/2018	0.00474*	0.406	0.695	0.276	7.53	N/A	2.61	0.337	0.529	N/A	1.32	0.306	2.13	0.723	2.18	0.696	N/A	N/A	0.0153
	3/27/2019	< 0.01	0.929	0.344	0.375	6.74	N/A	2.19	0.449	0.523	N/A	1.3	0.173	2.09	1.46	2.11	0.418	N/A	N/A	N/A
	9/10/2019	< 0.01	0.852	0.00696*	0.255	5.65	N/A	2.67	0.67	0.448	N/A	1.18	0.209	0.921	1.04	2.41	3.12	< 0.01	N/A	N/A
	3/2/2020	< 0.01	0.701	0.0314	0.207	3.81	N/A	2.49	0.389	0.375	N/A	1.18	0.159	0.622	1.18	2.09	3.01	N/A	N/A	N/A
	8/26/2020	< 0.01	0.936	< 0.01	0.166	3.8	N/A	2.98	0.349	0.571	N/A	1.38	0.136	0.772	1.12	2.41	2.86	N/A	N/A	0.376
	5/4/2021	< 0.01	0.977	0.244	0.663	4.85	N/A	2.86	0.22	0.509	N/A	1.59	0.392	0.811	1.19	2.21	0.371	N/A	N/A	N/A
	8/17/2021	< 0.01	0.765	0.214	0.275	5.79	N/A	2.31	0.188	0.598	N/A	1.54	1.74	0.728	0.876	1.8	1.19	N/A	N/A	N/A
	3/15/2022	< 0.01	0.0175	0.181	0.0661	6.63	N/A	2.21	0.198	0.418	N/A	1.45	0.568	1.13	0.873	2.02	0.974	N/A	N/A	0.347
	8/9/2022	< 0.01	0.879	0.179	0.613	6.42	N/A	2.7	0.25	0.554	N/A	1.57	0.574	0.893	0.815	2.17	1.4	N/A	N/A	N/A
	2/14/2023	< 0.01	0.0204	0.281	0.109	2.58	N/A	2.64	0.145	0.595	N/A	1.85	0.258	0.984	0.763	2.14	0.476	N/A	N/A	N/A
	7/19/2023	< 0.01	1.2	0.00942*	0.438	N/A	N/A	N/A	0.162	N/A	N/A	N/A	0.283	1.1	1.15	2.34	2.71	N/A	N/A	N/A
	4/9/2024	< 0.01	0.0823	1.23	0.146	5.68	N/A	2.43	0.319	0.463	N/A	1.48	0.209	1.04	0.942	< 0.01	0.0805	N/A	N/A	0.0959
	7/16/2024	< 0.01	1.2	0.109	0.274	5.69	N/A	2.2	0.244	0.709	N/A	1.13	0.279	1.3	0.93	1.71	1.14	N/A	N/A	N/A
Nitrate (NO3), mg/L (CAS NO - 14797-55-8)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	74
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.2
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.5
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.974
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.47
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.38
Oxidation-Reduction Potential, mV (CAS NO - ORP)	4/25/2016	112.9	28.9	101.9	64.4	-145.5	14.8	-103.6	-17.1	-111.3	11.7	-380	-164.3	-123.8	-109.6	-148.6	-6.2	23.2	37.5	N/A
	10/12/2016	57.8	17.1	57.2	-111.2	-131.3	-27	23.6	27.7	-120.3	-29.6	370.8	-221.4	-126.8	-142	-148.1	-15.3	194.2	54.2	N/A
	4/12/2017	79.4	57.7	75	38	-144.5	18.9	-43.1	-13.1	N/A	-79.1	-380.9	-35.5	-109.6	-118.1	-142.6	116	121.9	122.5	N/A
	10/5/2017	156.2	-26.2	61.4	-120.9	-152.1	16.5	-124.6	N/A	148.5	63.1	-366.5	-82.1	-125.9	-87	167.2	-8.8	128.3	84.2	N/A
	5/9/2018	65.7	88.4	57.2	70.9	-121	-92	-74.5	-41.7	-98.9	-34.4	84.9	100.1	-77.8	-59.8	90.6	24.8	27.6	62.4	N/A
	9/10/2018	-94.2	30.5	-99.2	-117.6	-113.8	-59.9	-85.2	-39.6	-141	-86	101.2	90.9	-131.4	-103	-168.4	27.8	-44.7	-81	N/A

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Summary of Groundwater Chemistry

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Total Natural_Attenuations Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Sulfate, mg/L (CAS NO - 14808-79-8)	10/2/2013	44.9	34.7	69.1	55.5	< 5	70.3	833	340	7.87	62.2	632	120	< 5	10.6	< 5	151	134	53.3	< 100
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	147
	10/5/2017	35.8	19.8	54.4	30.5	6.07	53.1	605	10.6	151	55	411	126	< 5	4*	< 5	47.4	100	47.7	1330
	5/9/2018	29.8	19.2	61.8	39.3	< 5	16.6	678	388	43.4	57.6	430	127	< 5	13.7	< 5	95.3	109	40.7	268
	9/10/2018	22.3	24.4	61.8	28.5	< 5	68.3	752	304	37.5	50.8	507	122	< 5	6.5	< 5	40	88	41.4	532
	3/27/2019	32.3	46.4	59.8	31.5	< 5	59.8	721	415	12.3	55.1	592	116	2.07*	14.9	< 5	71.7	107	47.2	N/A
	9/10/2019	N/A	23.2	< 5	116	46.6	52.9	683	628	45.8	53.5	541	29.2	N/A	N/A	57	N/A	N/A	44	N/A
	3/2/2020	33.2	31.2	55.7	23.4	17.1	51.6	757	525	< 5	52.1	528	117	4.98*	< 5	< 5	41	92.6	45	N/A
	8/26/2020	30.7	36.1	53	19.4	33.5	50.5	759	543	< 5	52.5	467	111	< 5	< 5	< 5	18.2	83.7	41	73
	8/17/2021	37	40.4	50.7	25	2.94*	55.8	891	555	4.21*	49	565	120	< 5	6.14	3.29*	46.7	89.9	43.8	N/A
	8/17/2021	N/A	N/A	N/A	N/A	3.3*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	34.8	34.7	44.9	25.6	< 5	58.7	885	624	3.18*	48.6	633	129	< 5	7.5	< 5	35	86.5	43.2	276
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.2	N/A
	8/9/2022	35.2	32.3	46.7	27.8	< 5	56.1	967	581	< 5	49.7	552	112	< 5	9.91	< 5	23.5	82.6	36.5	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	57.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/14/2023	34.8	26.5	46.1	48.1	21	54.5	279	219	< 5	49.6	710	134	< 5	11.2	< 5	35.9	91.4	40.8	N/A
	2/14/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.3	N/A
	7/19/2023	41.2	27.4	51.3	57.6	N/A	57.3	N/A	573	N/A	49.9	N/A	117	< 5	10.7	< 5	45.9	89.3	45.8	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	58.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	35.8	28.9	43.7	82.6	2.88*	50.6	965	412	< 5	50.2	717	121	< 5	6.43	82.8	185	17.2	39.5	655
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	436	N/A
	7/16/2024	33	22.9	51	60.7	< 5	48	840	293	< 5	47.5	354	94	< 5	23.2	< 5	206	86.1	49.5	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	49.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I Supplemental Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Aluminum, mg/L (CAS NO - 7429-90-5)	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.807
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.227*
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.117
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0894*
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.35
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.274*
Boron, mg/L (CAS NO - 7440-42-8)	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.45
	10/1/2014	0.127	0.256	0.658	0.363	3.4	0.464	26	24.2	31.9	0.831	19	1.38	1.1	8.08	14.4	1.3	1.08	0.424	N/A
	10/1/2015	0.12	0.255	0.645	0.375	3.35	0.464	23.4	20.7	26.4	0.486	19.4	0.435	2.13	6.62	19	1.12	1.19	0.353	N/A
	10/12/2016	0.141*	0.289	0.65	0.394	3.48	0.443	16.4	0.4	34.8	0.639	16.6	0.517	0.38*	6.17	9.13	1.77*	0.284	0.467	24.6
	10/5/2017	0.131*	0.193*	0.553	0.382	3.87	0.395	14.4	0.393	25.8	0.502	12.3	0.298	0.448	4.23	9.45	1.86	0.307	0.552	N/A
	5/9/2018	0.125	0.125*	0.586	0.339	3.1	0.447	19.4	13.5	6.81	0.623	15.3	0.713	1.93	4.24	13.8	1.19	0.383	0.304	N/A
	9/10/2018	0.102*	0.229	0.626	0.396	3.33	0.444	25	16.3	55	0.7	17.6	0.453	3.52	4.23	13.6	1.09	0.306	0.42	23.3
	3/27/2019	0.169*	0.331	1.04	0.371	3.83	0.431	20.6	16.8	32.5	0.575	12.4	0.44	2.13	2.76	12.4	0.709	0.356	0.405	N/A
	9/10/2019	< 0.2	0.273	0.734	0.402	3.6	0.424	14.3	17.7	32	0.5	10.8	0.776	0.46	3.9	9.5	1.09	0.277	0.451	N/A
	3/2/2020	0.138*	0.261	0.818	0.411	4.81	0.423	14.6	17.1	30.4	0.546	11.3	0.686	< 0.8	3.57	9.96	1.34	0.213	0.425	N/A
	8/26/2020	0.1	0.311	0.878	0.416	4.6	0.432	14.3	19.5	32.5	0.634	10.7	0.717	0.319	3.36	10.5	1.27	0.251	0.497	22.9
	5/4/2021	0.0884*	0.27	0.864	0.285*	4.1	0.395	14.1	18.6	35.2	0.566	11.2	0.344	0.263*	2.86	9.83	1.11	< 0.4	0.375*	N/A
	5/4/2021	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/17/2021	0.0895*	0.249	0.507	0.314	3.67	0.356	14.3	19.2	32	0.645	13.3	0.284	0.403	2.66	10.3	1.09	0.274	0.462	N/A
	8/17/2021	N/A	N/A	N/A	N/A	3.61	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	0.167	0.219	0.49	0.238	4.19	0.368	15	16.6	35.8	0.333	10.1	0.241	0.876	2.41	8.53	0.815	0.21	0.392	21.8
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.359	N/A
	8/9/2022	0.153	0.274	0.593	0.258	4.18	0.444	14.5	18.5	37.7	0.49	11.1	0.285	< 0.7	1.95	8.9	0.455	0.177	0.393	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	0.411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/14/2023	0.125	0.219	0.508	0.204	2.29	0.441	16.8	6.95	51.2	0.448	11.6	0.328	0.359	2.15	8.39	0.513	0.275	0.44	N/A
	2/14/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.428	N/A
	7/19/2023	0.144	0.23	0.752	0.364	N/A	0.353	N/A	16.1	N/A	0.502	N/A	0.457	1.56	1.7	9.88	0.966	0.222	0.368	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	0.336	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	0.112	0.224	0.586	0.306	4.03	0.332	20.1	14.1	34.6	0.772	11.4	0.519	1.12	1.87	0.288	0.774	7.68	0.349	20.6
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.338	N/A
	7/16/2024	0.0859*	0.251	1.55	0.383	3.81	0.342	22.4	10	31.6	0.358	12.9	1.67	1.74	2.41	9.79	1.54	0.215	0.264	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	0.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbonaceous Biochemical Oxygen Demand, mg/L (CAS NO - CBOD)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15500
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11000
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11400
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80.3
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.2
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.3
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	42.3
Dissolved Oxygen, mg/L (CAS NO - DO)	4/25/2016	4.71	0.4	0.68	0.54	0.56	0.74	0.86	9.63	0.32	0.79	0.46	0.3	0.38	0.59	0.43	0.76	1.04	3.4	N/A
	10/12/2016	4.7	0.57	0.61	0.66	0.77	0.62	1.14	0.41	0.53	1.44	0.49	0.16	0.23	0.72	1.21	0.72	1.5	0.72	N/A
	4/12/2017	4.54	0.73	0.67	0.85	0.9	0.99	1.17	9.01	N/A	2.68	0.45	0.71	0.75	0.71	1.34	1.17	4.64	6.82	N/A
	10/5/2017	0.36	1.01	1.1	1.15	1.32	1.07	0.75	2.64	1.32	1.95	0.38	1.59	0.46	1.67	1.55	1.77	0.97	0.85	N/A
	5/9/2018	0.84	0.78	0.79	0.26	0.39	0.88	0.64	0.61	0.78	0.82	0.72	0.62	0.49	0.47	0.89	0.56	2.05	0.81	N/A
	9/10/2018	0.39	0.51	0.78	0.48	0.64	0.37	0.47	0.77	0.58	0.52	0.73	0.72	0.82	0.47	0.54	0.32	0.64	0.43	N/A
Nitrogen, Total Kjeldahl, mg/L (CAS NO - TKN)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5980
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5060
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8000
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	973
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	870
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	813
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	777
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	754
Oxidation-Reduction Potential, mV (CAS NO - ORP)	4/25/2016	112.9	28.9	101.9	64.4	-145.5	14.8	-103.6	-17.1	-111.3	11.7	-380	-164.3	-123.8	-109.6	-148.6	-6.2	23.2	37.5	N/A
	10/12/2016	57.8	17.1	57.2	-111.2	-131.3	-27	23.6	27.7	-120.3	-29.6	370.8	-221.4	-126.8	-142	-148.1	-15.3	194.2	54.2	N/A
	4/12/2017	79.4	57.7	75	38	-144.5	18.9	-43.1	-13.1	N/A	-79.1	-380.9	-35.5	-109.6	-118.1	-142.6	116	121.9	122.5	N/A
	10/5/2017	156.2	-26.2	61.4	-120.9	-152.1	16.5	-124.6	N/A	148.5	63.1	-366.5	-82.1	-125.9	-87	167.2	-8.8	128.3	84.2	N/A
	5/9/2018	65.7	88.4	57.2	70.9	-121	-92	-74.5	-41.7	-98.9	-34.4	84.9	100.1	-77.8	-59.8	90.6	24.8	27.6	62.4	N/A
	9/10/2018	-94.2	30.5	-99.2	-117.6	-113.8	-59.9	-85.2	-39.6	-141	-86	101.2	90.9	-131.4	-103	-168.4	27.8	-44.7	-81	N/A

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Summary of Groundwater Chemistry

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I Supplemental Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
pH, S.U. (CAS NO - PH)	6/7/1993	6.8	6.9	6.8	6.4	7.4	6.5	7.5	6.5	7.3	6.7	7.3	6.8	7.4	7.4	7.6	7.4	7.4	7.4	N/A
	9/14/1993	7.5	7.3	6.8	7.7	6.6	7.6	6.9	6.9	7.6	7.9	6.7	8.7	7.4	7.2	7.9	7.6	7.9	7.7	N/A
	12/8/1993	7.4	6.9	6.7	7	6.9	7.3	7.1	6.8	7.5	7.9	6.9	6.6	6.6	7.8	7.8	7.7	8.1	7.8	N/A
	3/22/1994	7.3	7	N/A	7.2	6.7	7.2	N/A	N/A	N/A	N/A	N/A	N/A	5.3	6.1	5.4	6.7	N/A	N/A	N/A
	9/30/1994	7.5	7.1	7.3	7.3	7.8	7.9	7.5	6.7	7.5	7.3	7.3	7	6.6	6.9	7	7.9	7.2	6.9	N/A
	3/16/1995	7.3	6.8	6.5	6.7	6.4	6.4	7.2	6.7	7.5	7.1	7.4	7.2	6.4	6.6	7.2	7.2	7	7.1	N/A
	9/26/1995	6.75	7	6.75	7.25	7.25	7.5	7	6.75	7.5	6.75	7.25	6.75	6.75	6.75	7	6.75	7.25	6.75	N/A
	5/13/1996	6.6	6.8	6.5	6.7	6.7	6.8	7	6.5	6.5	6.8	7.1	6.6	6.5	6.5	6.6	6.9	6.6	6.5	N/A
	10/10/1996	7.2	7	6	7	6.7	7.4	7.9	7.7	7.5	7.1	7.3	6.7	6.6	6.8	6.9	6.2	7.4	6.7	N/A
	6/19/1997	6.75	6.5	6.5	6.75	7	6.75	6.75	6.5	7	6.75	7	6.5	6.5	6.75	7	6.5	7	6.75	N/A
	10/10/1997	6.8	6.9	6.7	7	6.9	7	6.9	6.6	7.2	7.2	6.9	7.1	6.6	6.9	6.75	6.8	7.1	8	N/A
	5/19/1998	6.6	6.5	6.9	6.7	6.5	6.8	6.8	6.3	7.5	6.8	6.2	6.8	6.5	6.3	6.5	6.5	7	6.9	N/A
	10/19/1998	7	6.9	6.5	6.4	7.1	7.2	7	6.8	7.5	7.5	7.1	7.3	6.2	6.9	7	6.8	7	7.1	N/A
	4/20/1999	7.09	6.98	7.06	7.05	6.63	7.41	6.63	6.53	7.11	7.05	7.07	6.91	6.6	6.7	6.71	6.8	7.15	6.89	N/A
	10/18/1999	7.2	6.8	6.3	7.2	7	6.5	7	7	7	7	6.5	7	6.5	7	6.5	6.5	7	7	N/A
	4/18/2000	N/A	6.8	N/A	7.1	6.8	N/A	8.7	N/A	7.3	N/A	6.8	N/A	4.1	N/A	6.2	5.5	N/A	6.3	N/A
	6/27/2000	N/A	N/A	N/A	N/A	6.6	N/A	6.43	N/A	6.95	N/A	6.8	N/A	6.22	6.5	N/A	N/A	N/A	N/A	N/A
	10/10/2000	7	6.5	6.8	7	N/A	6.5	7	6.3	7.5	7	7	7	6.5	6.8	6.5	6.5	7	7	N/A
	4/25/2001	N/A	6.7	N/A	6.8	7	N/A	4	N/A	3.9	N/A	7	N/A	3.7	N/A	7	6.3	N/A	6.8	N/A
	10/17/2001	6.4	7.3	N/A	6.6	7	6.4	7.1	6.5	7.4	6.9	7.1	7.6	6.4	6.5	6.6	6.5	6.9	6.8	N/A
	4/1/2002	N/A	6.8	N/A	6.84	6.41	N/A	6.2	N/A	6.8	N/A	6.52	N/A	5.45	N/A	6.35	5.9	N/A	6.41	N/A
	10/1/2002	6.75	6.5	N/A	6.5	6.5	6.5	6.25	7	7.5	7	6.5	7.5	6.25	6.5	6.5	6.25	6.5	6.5	N/A
	4/21/2003	N/A	7.5	N/A	7	6.5	N/A	7	N/A	7.5	N/A	8	N/A	7	N/A	7.5	6.5	N/A	6.5	N/A
	9/24/2003	7.06	6.67	6.95	6.44	6.61	6.85	7.76	7	6.96	7	7.5	6.5	6.5	7.5	7	6.5	7	7.5	N/A
	4/9/2004	N/A	6.59	N/A	7.59	6.59	N/A	6.52	N/A	7.09	N/A	6.73	N/A	6.37	N/A	6.6	6.53	N/A	6.82	N/A
	10/19/2004	7.04	6.62	6.74	7.02	6.63	6.72	6.5	6.46	6.98	6.69	6.8	6.68	6.29	6.43	6.48	6.49	6.86	6.73	N/A
	4/5/2005	N/A	7.01	N/A	7.22	6.99	N/A	6.69	N/A	7.11	N/A	6.91	N/A	6.34	N/A	6.78	6.69	N/A	7.12	N/A
	10/20/2005	6.46	6.3	6.29	6.15	6.34	6.37	6.56	6.47	7.11	6.7	6.71	6.49	6.18	6.54	6.73	6.42	6.79	6.43	N/A
	4/17/2006	N/A	6.5	N/A	6.72	6.6	N/A	6.57	N/A	7.11	N/A	6.92	N/A	6.25	N/A	6.7	6.44	N/A	6.48	N/A
	10/17/2006	6.7	6.46	6.71	6.64	6.78	6.92	6.84	6.75	6.96	6.61	6.71	6.85	6.58	6.75	6.61	6.86	7.09	6.73	N/A
	4/23/2007	N/A	6.42	N/A	6.64	6.85	N/A	6.69	N/A	7.07	N/A	6.79	N/A	6.54	N/A	6.65	6.81	N/A	6.86	N/A
	10/9/2007	6.04	6.73	6.65	6.92	6.92	7	6.94	6.89	6.97	6.79	6.84	6.9	6.39	6.95	6.89	6.81	6.91	6.73	N/A
	4/14/2008	N/A	7.03	N/A	8.03	6.88	N/A	6.88	N/A	7.2	N/A	6.64	N/A	7.23	N/A	6.87	7.65	N/A	7.86	N/A
	10/23/2008	7.46	7.18	7.49	7.68	7.22	7.42	7.18	7.08	7.61	7.52	7.24	7.3	6.99	7.08	7.22	7.12	7.39	7.39	N/A
	4/14/2009	N/A	6.88	N/A	7.05	6.97	N/A	6.81	N/A	7.29	N/A	6.23	N/A	6.76	N/A	6.78	6.99	N/A	6.96	N/A
	10/9/2009	7.15	6.94	7.03	7.25	6.88	7.04	6.81	6.94	7.37	7.17	6.99	6.85	6.56	6.83	6.87	6.92	7.01	6.96	N/A
	4/7/2010	N/A	6.98	N/A	6.67	6.7	N/A	6.54	N/A	7.01	N/A	7.1	N/A	6.53	N/A	6.91	6.67	N/A	6.6	N/A
	10/26/2010	7.09	7.01	7.11	7.2	6.79	7.05	6.92	7.03	7.25	7.11	7.01	6.81	6.61	6.82	6.83	6.97	6.98	7.01	N/A
	4/13/2011	N/A	7.66	N/A	7.51	7.36	N/A	7.31	N/A	7.41	N/A	7.24	N/A	7.81	N/A	7.34	6.86	N/A	7.88	N/A
	10/27/2011	7.57	8.64	8.44	8.38	6.08	7.48	7.28	7.45	7.76	6.91	7.31	6.9	7.73	7.61	8.18	7.34	7	7.3	N/A
	4/24/2012	N/A	7.43	N/A	7.42	7.29	N/A	7.34	N/A	7.48	N/A	7.16	N/A	7.71	N/A	7.42	7.01	N/A	7.63	N/A
	10/23/2012	7.63	8.41	7.43	8.36	6.17	7.36	7.29	7.39	7.22	7.49	7.01	7.24	7.13	7.46	7.59	7.52	8.09	7.71	8.5
	4/2/2013	6.71	6.56	7.03	7.27	6.85	7.24	7.05	7.84	7.04	7.27	6.19	6.67	6.37	6.54	6.68	6.1	7.22	7.41	8.63
	10/2/2013	7.06	6.96	7.08	7.37	7.02	7.1	6.85	6.91	7.34	7.16	7.03	7	6.67	6.84	6.96	6.86	7.03	6.91	8.57
	4/1/2014	6.86	6.93	6.83	7.25	6.86	6.84	6.62	6.68	7.26	6.97	6.83	6.91	6.53	6.6	6.71	6.71	6.76	6.93	N/A
	10/1/2014	7.97	7.43	7.86	7.81	7.26	7.69	7.53	9.52	10.97	10.49	8.74	9.2	7.13	7.27	7.53	6.75	8.01	8.14	N/A
	4/29/2015	6.89	7.33	6.94	7.35	6.79	6.82	6.75	6.83	7.38	6.91	6.98	6.76	6.78	6.61	6.85	6.87	6.81	7.22	N/A
	10/1/2015	6.98	7.3	7.08	7.7	7.31	7	6.73	7.14	7.98	7.02	7.28	6.87	6.84	6.73	7.1	6.98	6.93	7.26	N/A
	4/25/2016	7.26	7.09	7.62	7.41	7.07	7.25	6.78	8.34	7.08	8.11	7.02	7.78	6.84	6.58	6.78	7.29	7.15	7.45	N/A
	10/12/2016	6.98	6.86	7.16	7.02	6.83	7.16	6.69	7.51	7.16	7.13	6.77	7.01	6.4	6.69	6.92	6.72	7.01	6.94	N/A
	4/12/2017	7.14	7.08	7.32	7.27	7.13	7.25	6.9	7.98	7.3	7.29	6.93	7.04	6.61	6.72	6.97	7.17	7.17	7.29	N/A
	10/5/2017	6.98	6.88	7.06	7.08	6.89	7.6	6.71	7.64	7.08	7.49	6.8	6.88	6.51	6.64	6.86	6.79	6.95	6.86	N/A
	5/9/2018	7.93	7.19	7.46	7.35	6.93	7.25	6.61	6.86	7.18	7.31	7.3	7.37	6.63	6.69	7.1	7.29	6.99	7.41	N/A
	9/10/2018	7.37	7.7	7.39	7.22	6.79	7.37	7.01	7.32	7.29	7.81	7.4	7.41	7.54	7.51	7.35	8.09	8.79	7.82	N/A
	3/27/2019	7	6.92	7.11	7.26	6.84	7	6.62	6.73	7.05	7.01	6.79	7.11	6.54	6.6	6.77	7.11	6.95	7.05	N/A
	9/10/2019	7.03	7.06	7.23	7.16	7.06	7.83	6.82	6.99	7.29	7.63	7.43	7.16	6.69	6.69	6.93	7	7.17	6.99	N/A
	3/2/2020	6.84	6.88	7.08	7.24	6.85	7.1	6.63	6.71	7.08	7.27	6.67	6.97	6.39	6.48	6.75	6.81	7.27	6.97	N/A
	8/26/2020	6.71	6.76	6.79	6.92	6.94	7.56	6.68	6.75	7.22	7.74	6.81	6.7	6.48	6.57	6.79	6.76	6.79	6.99	N/A
	5/4/2021	6.8	6.89	7.05	7.2	6.9	7.42	6.62	6.68	7.11	6.98	6.66	6.66	6.43	6.52	6.8	6.81	6.87	6.9	N/A
	8/17/2021	6.79	6.87	6.95	7.07	6.79	7.33	6.62	6.67	7.1	6.98	6.75	6.74	6.4	6.58	6.77	6.81	6.88	6.8	N/A
	3/15/2022	7.07	7.13	7.21	7.3	6.74	7.26	6.63	6.72	7.21	7.06	6.9	6.86	6.53	6.62	6.78	6.84	7.38	7.09	N/A
	8/9/2022	6.72	6.85	6.88	6.9	6.72	6.94	6.59	6.78	7.08	6.89	6.96	6.71	6.31	6.5	6.71	6.59	6.82	6.56	N/A
	2/14/2023	6.83	7	7.13	7.16	7.06	7.05	6.68	6.87	7.25	7.01	6.88	6.83	6.47	6.66	6.87	6.69	6.97	6.98	N/A
	7/19/2023	6.85	6.85	7.06	7.03	N/A	7.73	N/A	6.56	N/A	7.62	N/A	6.76	6.36	6.61	6.74	6.5	6.87	6.87	N/A
	4/9/2024	6.87	6.87	7.07	7.07	6.79	6.92	6.58	6.62	7.09	6.98	6.72	6.72	6.48	6.62	6.86	6.76	6.88	7.01	N/A
	7/16/2024	6.89	6.92	7.11	7.07	6.72	6.92	6.72	6.74	7.1	7.1	6.9	6.93	6.51	6.65	6.81	6.72	6.96	7.07	N/A

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Summary of Groundwater Chemistry

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I Supplemental Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Specific Conductance, umhos/cm (CAS NO - SPECCON)	6/7/1993	2120	2750	1470	1320	4260	1980	5420	5870	6210	5400	6800	5600	4200	3950	5500	4550	3950	3690	N/A
	9/14/1993	888	1222	1120	906	3910	946	4580	4890	11470	1000	4690	1370	840	880	2320	1080	630	730	N/A
	12/8/1993	913	1243	1240	885	3590	1130	4900	5340	11190	1030	6930	1990	1660	1660	4630	2370	2490	1660	N/A
	3/22/1994	1000	980	1030	670	2740	800	3710	3500	8160	910	6130	1180	1700	1460	4390	1870	2450	1300	N/A
	9/30/1994	919	1079	931	862	3080	1020	4820	3180	7650	860	5980	1130	1930	1380	1280	1670	1490	1090	N/A
	3/16/1995	1154	1200	1105	937	3650	1000	4640	4830	10460	1310	6660	2550	2090	1610	4560	4560	3300	1270	N/A
	9/26/1995	940	1150	970	890	2720	960	4270	5220	10100	1000	6330	1190	1960	1360	4270	1480	2730	1190	N/A
	5/13/1996	1160	1371	1291	1377	3420	1386	6430	5440	8430	1794	9480	1855	1703	1953	6160	1362	3410	1496	N/A
	10/10/1996	995	1132	1060	896	2560	750	3760	4114	8600	755	5120	951	2111	430	3760	460	640	460	N/A
	6/19/1997	990	1030	1000	890	2430	870	4600	5090	8150	980	5900	1280	2040	1710	4350	1630	2180	1060	N/A
	10/10/1997	1045	1017	895	739	2020	893	4400	5250	9200	861	6200	785	1900	1900	380	1450	1800	990	N/A
	5/19/1998	980	1000	960	810	2400	940	4600	5100	9260	980	5850	1120	2100	2950	4080	1330	2000	1260	N/A
	10/19/1998	960	800	815	940	2130	950	4490	5040	9460	915	6490	1210	2010	2900	4550	1550	3140	1100	N/A
	4/20/1999	927	962	997	844	2280	477	4380	4410	7760	934	7250	1225	2000	2044	4160	1583	1864	1030	N/A
	10/18/1999	1061	1055	1197	906	2290	985	4280	5430	10050	998	6840	1434	2340	3150	4710	1512	1944	1731	N/A
	4/18/2000	N/A	1109	N/A	823	2450	N/A	4200	N/A	11590	N/A	6810	N/A	1709	N/A	3780	1369	N/A	968	N/A
	6/27/2000	N/A	N/A	N/A	N/A	2150	N/A	4460	N/A	7940	N/A	7200	N/A	1930	2360	N/A	N/A	N/A	N/A	N/A
	10/10/2000	800	960	920	710	2350	950	4170	5270	9760	990	5000	1100	1900	2390	3900	1280	1620	1100	N/A
	4/25/2001	N/A	808	N/A	798	2270	N/A	5070	N/A	599	N/A	6290	N/A	1882	N/A	3690	1292	N/A	952	N/A
	10/17/2001	1800	1990	N/A	1480	4020	1570	8000	9200	17200	1730	11320	2150	3790	4830	7740	2880	3750	1890	N/A
	4/1/2002	N/A	659	N/A	698	1433	N/A	695	N/A	1425	N/A	1111	N/A	1861	N/A	695	963	N/A	826	N/A
	10/1/2002	1100	1140	N/A	930	3270	1040	6950	8450	15500	1670	N/A	1750	N/A	N/A	6420	N/A	N/A	N/A	N/A
	4/21/2003	N/A	894	N/A	785	2090	N/A	4890	N/A	9240	N/A	9130	N/A	3250	N/A	5450	2000	N/A	976	N/A
	9/24/2003	1109	1030	1052	753	2050	1039	4780	5430	10190	1127	7470	1211	2300	2590	6400	1639	2400	1214	N/A
	4/9/2004	N/A	459	N/A	541	1177	N/A	4410	N/A	6280	N/A	5710	N/A	1000	N/A	3620	810	N/A	594	N/A
	10/19/2004	1097	1012	1022	869	2100	1046	4570	5230	8590	1185	6520	1109	2200	2690	4570	1489	1974	1088	N/A
	4/5/2005	N/A	840	N/A	783	1817	N/A	4330	N/A	5980	N/A	6370	N/A	1873	N/A	3800	1369	N/A	976	N/A
	10/20/2005	1159	981	1027	854	1990	1034	3880	4420	9310	1152	7080	1132	2010	2220	4030	1592	1170	1090	N/A
	4/17/2006	N/A	985	N/A	900	1990	N/A	5460	N/A	6750	N/A	7390	N/A	2180	N/A	4100	1462	N/A	1032	N/A
	10/17/2006	1169	1028	1002	647	2030	1022	5090	5590	9070	1175	7160	1136	2330	2470	4660	1556	1657	1069	N/A
	4/23/2007	N/A	982	N/A	800	2106	N/A	5710	N/A	5941	N/A	7983	N/A	2343	N/A	4958	1508	N/A	1105	N/A
	10/9/2007	1303	1048	1033	1017	1985	1027	5070	4450	8310	1357	6590	1117	2010	2240	4740	1700	1179	1176	N/A
	4/14/2008	N/A	880	N/A	940	2050	N/A	5920	N/A	6160	N/A	7950	N/A	2300	N/A	4880	1790	N/A	1084	N/A
	10/23/2008	1292	909	955	851	1936	1012	4710	5100	8610	1228	6280	1036	2300	2280	4720	2080	1288	1079	N/A
	4/14/2009	N/A	809	N/A	804	1922	N/A	4910	N/A	9080	N/A	7810	N/A	2100	N/A	4640	1900	N/A	1026	N/A
	10/9/2009	1406	939	929	858	2070	1155	4580	5710	9410	1337	7760	1078	2300	2240	4370	1583	1737	1055	N/A
	4/7/2010	N/A	939	N/A	838	2080	N/A	5100	N/A	7560	N/A	6990	N/A	2350	N/A	4300	1934	N/A	947	N/A
	10/26/2010	1386	951	939	862	2100	1175	4486	5692	9372	1296	7785	1118	2185	2260	4415	1526	1752	1087	N/A
	4/13/2011	N/A	898	N/A	815	5140	N/A	4630	N/A	6390	N/A	6890	N/A	2020	N/A	4130	1686	N/A	495	N/A
	10/27/2011	1579	1018	1039	1153	2249	1248	591	3999	1304	3999	1390	2450	2170	1734	1210	1183	3779	1086	N/A
	4/24/2012	N/A	915	N/A	837	3163	N/A	4217	N/A	6147	N/A	6799	N/A	1987	N/A	4207	1831	N/A	563	N/A
	10/23/2012	1624	1132	1201	1136	2175	1322	4201	576	3879	1409	4101	1407	2654	2278	3842	1698	1216	1248	N/A
	4/2/2013	1073	721	679	644	1024	208	3783	432	9135	890	5519	959	1784	1969	3703	1886	926	737	N/A
	10/2/2013	904	864	762	818	1852	1117	4627	4768	8083	1027	5823	1008	2004	2246	3827	1825	1038	865	N/A
	4/1/2014	838.6	968.8	762.8	835.5	2171.8	1333.8	6054.4	5631.1	11519.6	1121.4	7432.8	1249.7	2389.3	2798.9	4712.6	2309.4	2000.5	991	N/A
	10/1/2014	1348	931	875	833	2078	1286	5360	5669	9909	1133	6953	1277	2216	2725	4681	1761	1311	921	N/A
	4/29/2015	1395	968	1025	848	1695	1146	5640	5650	10820	910	7690	1011	2110	3280	4260	2330	1924	919	N/A
	10/1/2015	1395	960	835	869	2350	1350	6270	6270	8800	969	7010	1200	2170	4780	4440	1816	1470	936	N/A
	4/25/2016	1505	957	873	460	2211	1362	5332	569	1182	1051	7605	1306	2075	3676	4208	1725	1457	1089	N/A
	10/12/2016	1135	803	736	863	1805	1081	3945	416	8519	881	5556	1010	1980	3233	3630	1712	1042	826	N/A
	4/12/2017	1160	737	755	823	1859	1094	4360	454	10556	1010	6424	1134	2030	3261	3998	1067	988	649	N/A
	10/5/2017	1178	902	894	944	2082	1284	1553	544	10370	1039	5500	1278	2856	3299	4104	1390	1127	947	N/A
	5/9/2018	1354	1008	921	935	2511	1553	4948	3201	9674	2647	11832	11201	2596	2780	10392	1534	1219	868	N/A
	9/10/2018	1209	959	1026	1022	2390	1576	5389	4203	10991	2360	11822	11906	3337	3450	4850	1113	1573	1095	N/A
	3/27/2019	1222	838	884	808	2243	1169	5432	3609	8274	1064	6247	1194	2982	3010	4066	997	1140	845	N/A
	9/10/2019	1182.2	757.5	766.3	828.9	1812.7	1051.9	4168.6	4571.8	9439.6	1117.9	9859	1188.8	1971.3	2351.6	2800.4	1199.4	962.7	803.7	N/A
	3/2/2020	1356	794	823	907	2137	1176	5659	4863	11603	1058	6014	1225	2272	3007	4124	1603	1106	883	N/A
	8/26/2020	1385.5	804.8	826.5	899.8	2121.4	1182.9	5547.8	5047.2	10835.5	1069.8	5875.8	1207.5	2078.53	2771.22	3931	1223.99	1062.13	895.5	N/A
	5/4/2021	1473	809.3	812.2	913.8	2115.7	1160.2	5520.3	4892.9	11039.3	1095.4	6590.8	6584	2230.7	2816	3746.5	973.6	1118.7	773.7	N/A
	8/17/2021	1485.1	820.6	773.7	894.2	2213.1	1187.5	5638.4	5265.2	11174.1	1138	6362.4	1195.7	2251.9	2736.8	3886.9	1056	1150.1	844	N/A
	3/15/2022	1051.1	799.8	698.5	661.3	2037.5	1092.4	4787.9	4857.2	10643	1052	5962.3	1084.6	2139.8	2306.2	3584.7	939.9	1012	767.4	N/A
	8/9/2022	1460.8	774.9	734.7	687.5	2134.3	1197.8	5163.5	4675.7	10409.4	1103.5	6137.3	1130.3	2052.7	2310.7	3533	1253	1072.7	722.6	N/A
	2/14/2023	1310.9	811.3	799.3	747.9	1746.6	1415.1	5780	2008.5	11915.3	1222.1	7145.6	1248.1	2302	2399.2	4014.2	1575.7	1214.7	814.4	N/A
	7/19/2023	1315.7	792.7	767.6	883.9	N/A	1172.4	N/A	4819.6	N/A	1117.6	N/A	1250.7	2130.1	1996.2	638.2	2376.7	1112.9	809	N/A
	4/9/2024	1478	928.7	861.7	967	3382.2	1464.3	6432.2	4851.5	12080.8	1466.8	7381.1	1341.6	2540.9	2337.1	3830.7	1940.1	1316.2	805	N/A
	7/16/2024	1375.1	806.8	859.7	921	2366.9	1290.2	6040	3587.7	7001.5	1215	6096.7	1405.1	2445.6	2072.2	3480.1	2324.3	1128.6	938.5	N/A

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Summary of Groundwater Chemistry

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I Supplemental Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Total Solids, mg/L (CAS NO - TS)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	37000
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22800
	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26300
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5550
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3840
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4620
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3950
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5900
1,2,3-Trichlorobenzene, ug/L (CAS NO - 87-61-6)	10/2/2013	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 50
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	< 50	< 50	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 5	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A
1,2,4-Trimethylbenzene, ug/L (CAS NO - 95-63-6)	10/2/2013	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
1,3,5-Trimethylbenzene, ug/L (CAS NO - 108-67-8)	10/2/2013	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
2-Chlorotoluene, ug/L (CAS NO - 95-49-8)	10/2/2013	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
4-Chlorotoluene, ug/L (CAS NO - 106-43-4)	10/2/2013	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I Supplemental Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Benzidine, ug/L (CAS NO - 92-87-5)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1600
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4.8
	10/2/2013	< 0.475	< 0.475	< 0.48	< 0.475	< 0.511	< 0.475	< 0.48	< 0.475	< 0.475	< 0.47	< 0.475	< 0.475	< 0.505	< 0.47	< 0.485	< 0.495	< 0.475	< 0.48	< 47
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 202
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 247
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 18.5
Benzoic acid, ug/L (CAS NO - 65-85-0)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 16000
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.4*
	10/2/2013	< 1.02	< 1.02	< 1.03	3.95*	< 1.1	< 1.02	4.01*	4.24*	4.65*	< 1.01	< 1.02	< 1.02	4.81*	4.21*	4.06*	4.1*	< 1.02	< 1.03	17100*
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1010
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1230
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 100
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 92.6
Bromobenzene, ug/L (CAS NO - 108-86-1)	10/2/2013	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Carbazole, ug/L (CAS NO - 86-74-8)	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Hexane, ug/L (CAS NO - 110-54-3)	10/2/2013	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Isopropylbenzene, ug/L (CAS NO - 98-82-8)	10/2/2013	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Methyl Tert-Butyl Ether, ug/L (CAS NO - 1634-04-4)	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.16
	10/2/2013	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 1.6
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I Supplemental Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Methylphenols, total, ug/L (CAS NO - 1319-77-3)	6/7/1993	< 21	< 21	< 23	< 25	< 22	< 14	< 29	< 23	< 26	< 21	1100	< 21	< 24	< 25	< 21	< 23	< 26	< 22	N/A
	9/14/1993	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	542	< 10	< 10	< 10	< 14	< 10	< 10	< 10	N/A
	12/8/1993	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	492	< 10	< 14	< 10	< 10	< 15	< 10	< 10	N/A
	3/22/1994	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	87.2	< 10	< 10	< 10	< 10	< 13	< 10	< 10	N/A
	9/30/1994	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	40.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/16/1995	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 14	N/A	34.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/13/1996	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 14	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/10/1996	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/1997	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	65.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/10/1997	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	10.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/19/1998	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	153	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/1998	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/10/2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/2002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/24/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/5/2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/17/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/23/2007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/9/2007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/23/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	27.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/9/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 619	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/7/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/26/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/27/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/24/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5080
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	650
	10/2/2013	< 0.182	< 0.182	< 0.184	< 0.182	< 0.196	< 0.182	< 0.184	< 0.182	< 0.182	< 0.182	10*	< 0.182	< 0.194	< 0.182	< 0.186	< 0.189	< 0.182	< 0.184	4920
	10/1/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.36*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	103
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24*
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
N-Butylbenzene, ug/L (CAS NO - 104-51-8)	10/2/2013	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
N-Propylbenzene, ug/L (CAS NO - 103-65-1)	10/2/2013	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Appendix I Supplemental Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
P-Isopropyltoluene, ug/L (CAS NO - 99-87-6)	10/2/2013	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	3.38*
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Pyridine, ug/L (CAS NO - 110-86-1)	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 101
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 123
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.26
Sec-Butylbenzene, ug/L (CAS NO - 135-98-8)	10/2/2013	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
Tert-Butylbenzene, ug/L (CAS NO - 98-06-06)	10/2/2013	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	10/5/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	< 10
	9/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10
	8/17/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	8/9/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 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

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Geochemistry Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Bicarbonate, mg/L (CAS NO - BICARB)	10/5/2017	361	412	361	412	850	350	2660	268	5480	355	3500	500	1150	1060	2890	716	386	438	2120
	5/9/2018	427	371	330	407	810	389	3010	1560	5320	410	3890	524	1050	968	2670	700	381	232	4510
Calcium, mg/L (CAS NO - 7440-70-2)	10/5/2017	91.8	99.8	93.9	103	86.6	102	486	66.6	165	87	497	132	201	207	372	107	115	131	49.1
	5/9/2018	112	105	100	100	116	108	510	123	166	107	650	153	260	196	391	135	134	68.5	131
Carbonate, mg/L (CAS NO - CARB)	10/5/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 20	< 5	< 20	< 5	< 5	< 5	< 10	< 5	< 5	< 5	< 20
	5/9/2018	< 5	< 5	< 5	< 5	< 25	< 5	< 10	< 10	< 25	< 5	< 25	< 5	< 10	< 10	< 25	< 5	< 5	< 5	< 25
Chloride, mg/L (CAS NO - 16887-00-6)	6/7/1993	68	23	20	19	220	52	330	440	440	49	1100	24	47	82	120	57	140	18	N/A
	9/14/1993	77	24	22	20	< 5	55	< 5	< 5	360	40	210	48	21	10	< 5	58	29	21	N/A
	12/8/1993	68	200	23	23	< 5	53	< 5	12	340	34	810	47	41	< 5	< 5	58	41	26	N/A
	3/22/1994	76	24	23	26	260	62	< 5	5.1	42	42	630	52	51	74	200	69	29	29	N/A
	9/30/1994	110	23	22	54	310	62	240	440	340	40	490	51	51	66	200	60	40	37	N/A
	3/16/1995	94	22	20	47	300	62	220	420	300	38	790	48	44	68	200	60	64	33	N/A
	9/26/1995	81	22	23	34	280	61	210	390	310	45	260	48	45	< 5	210	30	60	32	N/A
	5/13/1996	71	23	32	27	260	63	250	400	300	59	110	55	37	59	200	19	65	25	N/A
	10/10/1996	94	26	25	34	260	57	230	370	55	48	340	49	53	84	280	30	77	36	N/A
	6/19/1997	93	180	28	33	25	57	190	390	280	46	300	52	48	59	220	32	52	37	N/A
	10/10/1997	120	27	26	34	200	57	190	380	280	43	220	52	51	70	220	40	50	46	N/A
	5/19/1998	96.4	22.4	27.7	30.2	175	71.9	167	340	243	59.6	210	50.4	47.3	99.1	199	31	55.8	50.7	N/A
	10/19/1998	100	16	25	11	180	58	150	380	260	53	180	47	50	110	200	34	75	52	N/A
	4/20/1999	74	24	30	12	200	59	150	370	260	49	310	47	54	93	180	38	50	35	N/A
	10/18/1999	97	22	29	24	150	61	120	370	280	47	260	47	55	120	210	30	51	37	N/A
	4/18/2000	N/A	18	N/A	22.8	163	N/A	118	N/A	231	N/A	671	N/A	44.6	N/A	187	36.8	N/A	34	N/A
	10/10/2000	N/A	15.9	N/A	21.7	136	70.1	78.7	366	300	55.8	173	51.9	28.8	96.6	175	23.6	44.8	34.5	N/A
	4/25/2001	N/A	52.5	N/A	14.8	275	N/A	315	N/A	304	N/A	123	N/A	63.2	N/A	188	40.8	N/A	30.8	N/A
	10/17/2001	N/A	13.5	N/A	14.5	195	N/A	146	N/A	355	N/A	98.8	N/A	47.9	N/A	187	63.4	N/A	34.5	N/A
	4/1/2002	N/A	14.2	N/A	10.9	183	N/A	208	N/A	268	N/A	366	N/A	54.6	N/A	185	57.5	N/A	38.2	N/A
	10/1/2002	110	20	N/A	16	150	77	< 2	< 4	< 5	100	< 1	44	52	110	< 2	86	34	36	N/A
	4/21/2003	N/A	17.7	N/A	22.6	201	N/A	206	N/A	300	N/A	469	N/A	76.6	N/A	183	75	N/A	41.9	N/A
	9/24/2003	134	22.6	31.8	17.4	186	86.1	175	421	311	95.8	263	45.8	93.4	121	188	82.7	65.3	45.2	N/A
	4/9/2004	N/A	22.3	N/A	14.7	224	N/A	254	N/A	293	N/A	1000	N/A	129	N/A	194	85.5	N/A	53	N/A
	10/19/2004	132	20.6	34.1	15.4	189	98.5	172	400	270	153	364	49.4	92.4	126	187	57.5	62.2	63.1	N/A
	4/5/2005	N/A	12.4	N/A	11.5	210	N/A	181	N/A	263	N/A	272	N/A	63	N/A	154	56.2	N/A	63.1	N/A
	10/20/2005	159	16.7	14.9	38.1	205	96	233	381	263	126	213	47	59.6	103	150	52.3	48	59.3	N/A
	4/17/2006	N/A	16.2	N/A	9.8	221	N/A	647	N/A	295	N/A	499	N/A	101	N/A	144	61.9	N/A	43.9	N/A
	10/17/2006	143	27.3	34.3	9.24	197	95.1	191	236	247	137	265	47.2	82.3	106	149	61.3	57	58.5	N/A
	4/23/2007	N/A	19	N/A	11.7	206	N/A	242	N/A	214	N/A	1190	N/A	83.6	N/A	160	60.4	N/A	61.3	N/A
	10/9/2007	149	22.4	33.3	17.9	199	97.2	216	354	238	206	40.2	49.9	61.9	100	134	77.4	50.4	63.6	N/A
	4/14/2008	N/A	54.4	N/A	14.9	203	N/A	245	N/A	224	N/A	1020	N/A	94.8	N/A	121	118	N/A	42.9	N/A
	10/23/2008	185	18.9	32.4	17.6	140	95.5	146	330	228	181	171	49	99.8	107	117	124	57.9	75.6	N/A
	4/14/2009	N/A	13.8	N/A	13.7	201	N/A	180	N/A	242	N/A	430	N/A	79.6	N/A	105	85.1	N/A	71.2	N/A
	10/9/2009	208	24	35.8	19.2	156	97.9	136	325	321	255	28.8	49.4	90.9	108	126	90.1	62.2	66.2	N/A
	4/7/2010	N/A	24.5	N/A	11.2	201	N/A	190	N/A	223	N/A	548	N/A	105	N/A	88.9	184	N/A	18.5	N/A
	10/26/2010	193	23.6	45.2	21.9	163	94.8	152	< 5	206	116	458	49.7	74.1	115	104	170	52	23.1	N/A
	4/13/2011	N/A	31	N/A	23.5	212	N/A	140	N/A	210	N/A	213	N/A	102	N/A	75.1	176	N/A	27	N/A
	10/27/2011	201	25.6	42.3	27	134	133	164	76.8	214	108	416	73.3	70.9	112	78.1	71.7	59.3	38.3	N/A
	4/24/2012	N/A	24.3	N/A	13.3	168	N/A	127	N/A	200	N/A	40.4	N/A	57.6	N/A	16.4	186	N/A	24.6	N/A
	10/23/2012	153	64.5	42.3	19.2	148	160	140	< 5	220	62.2	46.5	48.8	61.1	90.3	38.5	154	171	36.7	N/A
	4/2/2013	190	27.1	30.4	11.9	188	3.64*	132	3.29*	221	53	49.2	46.8	91.1	141	52.3	371	46.9	29.9	N/A
	10/2/2013	105	47.2	40.7	18.2	167	142	171	126	159	136	50.2	47.2	78.6	206	54.9	233	52	43.9	690
	4/1/2014	92.7	38.6	31.1	15.6	200	139	189	229	203	76.3	52.8	46.4	101	218	59.1	296	44.1	39.2	N/A
	10/1/2014	178	39.4	42.5	17.3	180	151	173	230	202	100	64.5	52.1	71.2	194	63.8	146	53.9	50.2	N/A
	4/29/2015	124	33.7	35.3	14.9	196	157	179	225	213	72.7	57	48.9	66.2	343	58.7	361	52.2	45.6	N/A
	10/1/2015	206	41.4	35.5	13	176	158	162	235	166	83.2	83.4	54.4	103	557	51.9	193	49.4	45.1	N/A
	4/25/2016	203	25.8	37.3	13.4	175	164	167	5.55	226	79.3	654	48.3	75.4	581	46.9	30.9	57.2	30.7	N/A
	10/12/2016	171	24.2	39.1	25.6	206	153	162	4.27*	228	78.2	720	47.5	75.3	508	51.1	47.4	66.4	21.1	312
	4/12/2017	183	22.3	46.9	12.8	169	152	169	N/A	228	85.9	738	49	91.7	529	43.5	34.2	71.5	20.1	N/A
	10/5/2017	131	23.2	33.7	19.2	160	124	151	2.25*	185	68.3	37	45.8	84.7	490	39.7	36.4	69.6	24.3	238
	5/9/2018	159	20.3	39.2	16.1	270	34.3	649	373	203	67.8	52.7	51.6	264	435	92	38	65	24.3	484
	9/10/2018	158	19.2	40	15.3	212	128	145	412	178	64.9	42.1	44.9	456	445	36.4	8.11	68.6	28.3	257
	3/27/2019	164	15.8	44.6	15.8	234	129	149	187	216	84.5	29.8	54.7	409	494	61.9	10	65	28.6	N/A
	9/10/2019	198	15.3	34.5	45.7	193	113	127	158	174	74.9	23.3	17.8	95.1	444	33	33.4	73.9	26.5	N/A
	3/2/2020	202	16.7	30.5	18.3	186	137	136	139	170	77.2	21.6	45.3	70.8	460	29.7	20.4	80.1	29.7	N/A
	8/26/2020	203	18.3	35.1	21.7	191	140	140	155	178	84	27.4	47.9	71.3	430	31.2	37.2	83.9	30.1	191
	5/4/2021	233	40.5	48	53.6	220	149	152	218	180	110	33.1	53.3	77.6	479	30.9	13.4	93	27	N/A
	5/4/2021	240	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/17/2021	227	35.5	29.4	27.1	215	143	145	235	157	104	30.4	46.7	67.7	433	26.7	12.1	85	28.6	N/A
	8/17/2021	N/A	N/A	N/A	N/A	214	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/15/2022	153	53.7	30.2	28.4	236	155	139	195	169	136	29.4	48.5	177	407	31.2	18.2	81.3	31.8	199
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.5	N/A
	8/9/2022	250	37.2	36.1	27.7	218	161	146	200	158	111	38.1	< 5	69.7	373	27.3	137	84.7	24.2	N/A
	8/9/2022	N/A	N/A	N/A	N/A	N/A	174	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/14/2023	168	28.4	36.9	29.3	223	189	136	66.2	173	142	37.3	47.7	108	379	32.7	220	91.4	32.5	N/A
	2/14/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35.3	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Archer Daniels Midland Landfill (Closed) - 23-SDP-05-88C

Geochemistry Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-17 UPG	MW-18 UPG	MW-3 DNG	MW-4 DNG	MW-5 DNG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15 DNG	MW-16 DNG	WET_WELL DNG
Chloride, mg/L (CAS NO - 16887-00-6)	7/19/2023	204	33	45.5	39.7	N/A	183	N/A	176	N/A	117	N/A	51.5	74.6	305	47.3	493	88.1	41.7	N/A
	7/19/2023	N/A	N/A	N/A	N/A	N/A	197	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2024	179	31.8	36.4	41.3	420	186	166	317	168	176	27.3	49.3	129	302	97.1	195	78.7	28.2	239
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	360	N/A
	7/16/2024	183	30.1	71.6	39.2	298	180	192	385	195	146	38.9	76.3	293	298	64.6	357	90.1	68.3	N/A
	7/16/2024	N/A	N/A	N/A	N/A	N/A	177	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Magnesium, mg/L (CAS NO - 7439-95-4)	10/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.8
	10/1/2014	53.7	34.9	37.8	39.1	84.5	N/A	394	334	340	N/A	252	59.6	110	143	288	86.3	73.1	N/A	N/A
	10/1/2015	56.3	35.6	38.3	39.2	75.9	N/A	441	339	257	N/A	264	42.6	135	208	659	91.2	112	N/A	N/A
	10/12/2016	42.9	28.7	30.4	34.2	73.7	N/A	289	20.6	281	N/A	229	67.5	90.9	236	325	109	47.7	N/A	469
	10/5/2017	43.4	26.4	33.3	33.7	75.7	35.5	297	22.7	247	35.9	224	50.2	94.1	118	280	86.7	50	61.2	364
	5/9/2018	43.5	28.9	32.3	31.7	78.1	39.2	401	183	57.3	39.2	226	50.5	106	115	294	79.7	49.9	22.9	369
	9/10/2018	38.8	27.8	31.7	36.2	77.4	N/A	523	242	494	N/A	339	50.3	150	142	474	54.4	48.1	N/A	275
	3/27/2019	36.1	29.7	30.6	28.2	80.7	N/A	404	280	276	N/A	223	50.1	107	112	279	71.5	50.2	N/A	N/A
	9/10/2019	43	26.6	32.7	35.4	82.5	N/A	336	294	312	N/A	225	55.9	102	112	312	68.3	52.6	N/A	N/A
	3/2/2020	43.1	24.1	29.9	32.6	86	N/A	343	378	244	N/A	236	48.4	96.2	111	328	128	55.2	N/A	N/A
	8/26/2020	46.1	26.8	30.3	30.6	86.2	N/A	338	356	241	N/A	237	51.7	101	112	312	71	47.4	N/A	594
	5/4/2021	54.1	27	31.6	30.8	86.3	N/A	334	293	290	N/A	247	57.1	102	102	299	67.9	53.6	N/A	N/A
	8/17/2021	45.9	23.9	27.4	28.2	78.9	N/A	364	324	444	N/A	315	66.9	114	101	328	69.5	49.1	N/A	N/A
	3/15/2022	38.8	30.6	31.3	28.1	81.6	N/A	374	338	337	N/A	278	61.9	99.1	92.7	273	73.7	50.8	N/A	504
	8/9/2022	64	28.2	33.4	28.3	95.2	N/A	508	400	436	N/A	322	70.9	105	86.5	298	62.6	65.9	N/A	N/A
	2/14/2023	45.8	30.2	30.2	27.5	71	N/A	423	149	487	N/A	326	54.7	98.8	81.2	274	73.1	60.6	N/A	N/A
	7/19/2023	50.8	26.3	29.4	32	N/A	N/A	N/A	316	N/A	N/A	N/A	55.3	70.2	72.7	343	113	53.6	N/A	N/A
	4/9/2024	47.2	28.2	29.1	32.2	96.3	N/A	463	324	321	N/A	265	51.4	97.8	69.9	53.1	84	278	N/A	448
	7/16/2024	50.1	27.2	29	33.9	84.9	N/A	514	159	240	N/A	251	67.6	95.4	77.8	263	102	51.7	N/A	N/A
Potassium, mg/L (CAS NO - 7440-09-7)	10/23/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1510
	4/2/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1490
	10/12/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	286
	10/5/2017	5.44	11.7	11.1	24.6	158	4.88	37.2	6.01	228	8.2	60.8	16.8	7.77	9.03	14.4	8.06	7.64	4.93	219
	5/9/2018	11.1	7.66	10.4	27.3	132	4.46	40.6	49.4	233	7.44	70.4	20.1	6.08	9.47	17.3	5.31	11.2	7.54	220
	9/10/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	310
	8/26/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	235
	3/15/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	245
	4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	263
Sodium, mg/L (CAS NO - 7440-23-5)	10/5/2017	56.4	20.9	23.8	18.1	107	60	210	4.76	445	41.2	63.5	27.4	46.1	214	95.5	37.4	30.1	30.6	271
	5/9/2018	21.8	70.7	30.6	18.4	166	67.7	224	303	392	41.9	86.4	36.4	102	190	142	69.1	37.1	16.8	596

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 Report

Attachment A

Trend Test (α=0.01)

Trend Test

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR Printed 9/24/2024, 9:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Acenaphthene (ug/L)	MW-9	-0.1112	-14	-21	No	8	87.5	0.01	NP
Acenaphthene (ug/L)	MW-11	-0.05273	-18	-21	No	8	37.5	0.01	NP
Acenaphthylene (ug/L)	MW-9	-0.07793	-16	-21	No	8	50	0.01	NP
Acenaphthylene (ug/L)	MW-11	-0.1601	-9	-21	No	8	75	0.01	NP
Acetone (ug/L)	MW-11	0	2	21	No	8	62.5	0.01	NP
Arsenic (mg/L)	MW-3	0.005096	18	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-5	0.003343	16	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-6	0.002427	4	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-7	-0.01627	-4	-21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-9	0.005708	12	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-11	0.003834	14	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-12	0.0003342	1	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-13	-0.01267	-4	-21	No	8	12.5	0.01	NP
Arsenic (mg/L)	MW-15	0	5	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-18 (bg)	-0.002603	-8	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-9	-0.3042	-8	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-1 (bg)	-0.0142	-12	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-2 (bg)	-0.007098	-3	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-3	-0.1599	-12	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-4	-0.01652	-12	-21	No	8	0	0.01	NP
Boron (mg/L)	**MW-5**	**1.813**	**23**	**21**	**Yes**	**8**	**0**	**0.01**	**NP**
Boron (mg/L)	MW-6	-2.432	-18	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-7	0.6375	2	21	No	8	0	0.01	NP
Boron (mg/L)	MW-8	-0.04451	-2	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-9	0.2942	10	21	No	8	0	0.01	NP
Boron (mg/L)	MW-10	0.1019	18	21	No	8	0	0.01	NP
Boron (mg/L)	MW-11	0.4599	18	21	No	8	12.5	0.01	NP
Boron (mg/L)	MW-12	-0.2905	-15	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-13	-0.1968	-8	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-14	-0.04218	-2	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-15	0.009442	8	21	No	8	12.5	0.01	NP
Boron (mg/L)	MW-16	-0.03171	-14	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-17 (bg)	0.05707	8	21	No	8	0	0.01	NP
Boron (mg/L)	MW-18 (bg)	0.0274	8	21	No	8	0	0.01	NP
Carbon Disulfide (ug/L)	MW-9	0.06864	2	21	No	8	25	0.01	NP
Carbon Disulfide (ug/L)	MW-11	0	-2	-21	No	8	62.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-1 (bg)	-0.01132	-10	-21	No	8	62.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-2 (bg)	1.659	13	21	No	8	37.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-3	1.417	2	21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-4	0	2	21	No	8	50	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-5	11.45	6	21	No	8	12.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-6	-23.24	-15	-21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-7	-147.3	-14	-21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-8	-0.2523	-1	-21	No	8	25	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-9	-47.93	-12	-21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-10	2.646	11	21	No	8	25	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-11	-60.72	-16	-21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-12	-3.709	-14	-21	No	8	0	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-13	-2.071	-9	-21	No	8	12.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-14	3.02	10	21	No	8	12.5	0.01	NP

Trend Test

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR Printed 9/24/2024, 9:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Chemical Oxygen Demand (mg/L)	MW-15	2.874	16	21	No	8	62.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-16	0.9349	4	21	No	8	12.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-17 (bg)	0	2	21	No	8	50	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-18 (bg)	-1.575	-2	-21	No	8	12.5	0.01	NP
Chloride (mg/L)	MW-1 (bg)	-15.9	-6	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-2 (bg)	-3.242	-16	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-3	25.43	18	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-4	13.61	16	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-5	6.152	8	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-6	32.36	4	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-7	1.965	2	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-8	12.82	18	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-9	2.083	8	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-10	1.81	8	21	No	8	12.5	0.01	NP
Chloride (mg/L)	MW-11	20.71	12	21	No	8	0	0.01	NP
Chloride (mg/L)	**MW-12**	**-56.29**	**-26**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Chloride (mg/L)	MW-13	11.35	20	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-14	114.7	20	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-15	-0.9013	-4	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-16	13.26	20	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-17 (bg)	5.932	12	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-18 (bg)	2.232	8	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-2 (bg)	0.000008688	3	21	No	8	25	0.01	NP
Cobalt (mg/L)	MW-3	-0.0004089	-10	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-5	0.001057	18	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-6	-0.001017	-18	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-7	-0.000177	-6	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-9	0.000293	16	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-10	-0.0002414	-9	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-11	-0.004881	-16	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-12	-0.00018	-20	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-13	-0.00004208	-2	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-14	-0.0003723	-6	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-15	0	5	21	No	8	87.5	0.01	NP
Cobalt (mg/L)	MW-18 (bg)	-0.0003024	-4	-21	No	8	0	0.01	NP
Fluorene (ug/L)	MW-9	-0.05096	-18	-21	No	8	87.5	0.01	NP
Fluorene (ug/L)	MW-11	-0.01995	-6	-21	No	8	12.5	0.01	NP
Iron (mg/L)	MW-2 (bg)	0	5	14	No	6	66.67	0.01	NP
Iron (mg/L)	MW-3	0.261	0	12	No	5	0	0.01	NP
Iron (mg/L)	MW-5	1.056	6	12	No	5	0	0.01	NP
Iron (mg/L)	MW-6	1.02	9	14	No	6	0	0.01	NP
Iron (mg/L)	MW-7	-0.0885	0	12	No	5	0	0.01	NP
Iron (mg/L)	MW-8	0	-3	-14	No	6	83.33	0.01	NP
Iron (mg/L)	MW-9	0.001771	0	12	No	5	60	0.01	NP
Iron (mg/L)	MW-10	0.0468	10	14	No	6	33.33	0.01	NP
Iron (mg/L)	MW-11	-0.6801	-5	-14	No	6	0	0.01	NP
Iron (mg/L)	MW-12	-1.903	-11	-14	No	6	0	0.01	NP
Iron (mg/L)	MW-13	-1.421	-7	-14	No	6	0	0.01	NP
Iron (mg/L)	MW-14	-0.01679	-6	-14	No	6	50	0.01	NP
Iron (mg/L)	MW-15	0	-1	-14	No	6	66.67	0.01	NP

Trend Test

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR Printed 9/24/2024, 9:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Iron (mg/L)	MW-18 (bg)	0.1128	1	14	No	6	0	0.01	NP
Magnesium (mg/L)	MW-1 (bg)	0.2122	0	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-2 (bg)	0.03122	1	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-3	0.4023	2	21	No	8	0	0.01	NP
Magnesium (mg/L)	**MW-5**	**44.6**	**22**	**21**	**Yes**	**8**	**0**	**0.01**	**NP**
Magnesium (mg/L)	MW-6	-5.462	-3	-21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-7	16.33	2	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-9	7.255	8	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-10	-1.525	-4	-21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-11	-3.838	-18	-21	No	8	0	0.01	NP
Magnesium (mg/L)	**MW-12**	**-10.97**	**-24**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Magnesium (mg/L)	MW-13	-16.04	-10	-21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-14	8.386	16	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-15	2.212	7	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-17 (bg)	-0.8287	-12	-21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-18 (bg)	1.24	12	21	No	8	0	0.01	NP
Manganese (mg/L)	MW-2 (bg)	0.04254	5	21	No	8	0	0.01	NP
Manganese (mg/L)	MW-3	0.2726	4	21	No	8	0	0.01	NP
Manganese (mg/L)	MW-5	-0.1492	-16	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-6	0.0183	4	21	No	8	0	0.01	NP
Manganese (mg/L)	MW-7	0.0247	4	21	No	8	0	0.01	NP
Manganese (mg/L)	MW-9	-0.01924	-2	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-10	-0.1127	-14	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-11	0.1418	16	21	No	8	0	0.01	NP
Manganese (mg/L)	MW-12	-0.0314	-4	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-13	-0.04859	-6	-21	No	8	12.5	0.01	NP
Manganese (mg/L)	MW-14	0.06491	2	21	No	8	0	0.01	NP
Manganese (mg/L)	MW-17 (bg)	-0.0359	-6	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-18 (bg)	-0.07532	-6	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-6	-0.01422	-20	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-17 (bg)	0	1	21	No	8	37.5	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-2 (bg)	-0.4063	-8	-21	No	8	12.5	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-3	0.1986	8	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-4	0	-3	-21	No	8	75	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-5	0.4007	7	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-6	-21	-10	-21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-7	-54.72	-6	-21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-8	0	-6	-21	No	8	62.5	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-9	8.708	4	21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-10	0.08769	6	21	No	8	12.5	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-11	-1.419	-6	-21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-12	-2.005	-17	-21	No	8	0	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-13	-2.903	-8	-21	No	8	12.5	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-14	-0.8355	-4	-21	No	8	12.5	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-15	0	7	21	No	8	75	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-18 (bg)	-0.7886	-4	-21	No	8	12.5	0.01	NP
pH (S.U.)	MW-1 (bg)	0.02916	12	21	No	8	0	0.01	NP
pH (S.U.)	MW-2 (bg)	-0.003408	-2	-21	No	8	0	0.01	NP
pH (S.U.)	MW-3	-0.05293	-12	-21	No	8	0	0.01	NP
pH (S.U.)	MW-4	-0.1501	-15	-21	No	8	0	0.01	NP

Trend Test

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR Printed 9/24/2024, 9:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
pH (S.U.)	MW-5	0	0	21	No	8	0	0.01	NP
pH (S.U.)	MW-6	0.01364	2	21	No	8	0	0.01	NP
pH (S.U.)	MW-7	-0.006632	-7	-21	No	8	0	0.01	NP
pH (S.U.)	MW-8	0.02876	9	21	No	8	0	0.01	NP
pH (S.U.)	MW-9	0.02573	7	21	No	8	0	0.01	NP
pH (S.U.)	MW-10	0.04239	10	21	No	8	0	0.01	NP
pH (S.U.)	MW-11	0.0237	6	21	No	8	0	0.01	NP
pH (S.U.)	MW-12	0.03715	13	21	No	8	0	0.01	NP
pH (S.U.)	MW-13	0.01327	4	21	No	8	0	0.01	NP
pH (S.U.)	MW-14	-0.03475	-9	-21	No	8	0	0.01	NP
pH (S.U.)	MW-15	0.008591	4	21	No	8	0	0.01	NP
pH (S.U.)	MW-16	0.04897	8	21	No	8	0	0.01	NP
pH (S.U.)	MW-17 (bg)	0.01625	6	21	No	8	0	0.01	NP
pH (S.U.)	MW-18 (bg)	-0.03151	-7	-21	No	8	0	0.01	NP
Phenanthrene (ug/L)	MW-11	-0.04394	-12	-21	No	8	50	0.01	NP
Specific Conductance (umhos/cm)	MW-1 (bg)	-6.161	-2	-21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-2 (bg)	0.1704	0	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-3	57.93	6	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-4	53.59	14	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-5	153.9	12	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-6	-201.8	-14	-21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-7	9.844	0	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-8	56.89	14	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-9	169.3	8	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-10	76.54	10	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-11	70.4	8	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-12	-229.2	-14	-21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-13	-105.8	-8	-21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-14	428.4	20	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-15	42.92	8	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-16	20.49	6	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-17 (bg)	31.38	8	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-18 (bg)	32.41	8	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-1 (bg)	0.4212	3	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-2 (bg)	-4.435	-20	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-3	-1.246	-11	-21	No	8	37.5	0.01	NP
Sulfate (mg/L)	MW-4	-1.417	-6	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-5	24.39	6	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-6	-59.15	-8	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-8	-0.3316	-2	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-9	42.03	8	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-10	-0.5921	0	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-12	3.303	18	21	No	8	12.5	0.01	NP
Sulfate (mg/L)	MW-13	0	1	21	No	8	75	0.01	NP
Sulfate (mg/L)	MW-14	26.58	18	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-15	-0.4378	-4	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-16	2.439	14	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-17 (bg)	-0.5832	-6	-21	No	8	0	0.01	NP
Sulfate (mg/L)	**MW-18 (bg)**	**15.22**	**26**	**21**	**Yes**	**8**	**0**	**0.01**	**NP**
Toluene (ug/L)	MW-9	0.3952	4	21	No	8	12.5	0.01	NP

Trend Test

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR Printed 9/24/2024, 9:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Total Phenols (mg/L)	MW-7	0	-1	-21	No	8	62.5	0.01	NP
Total Phenols (mg/L)	**MW-9**	**-0.009751**	**-24**	**-21**	**Yes**	**8**	**12.5**	**0.01**	**NP**

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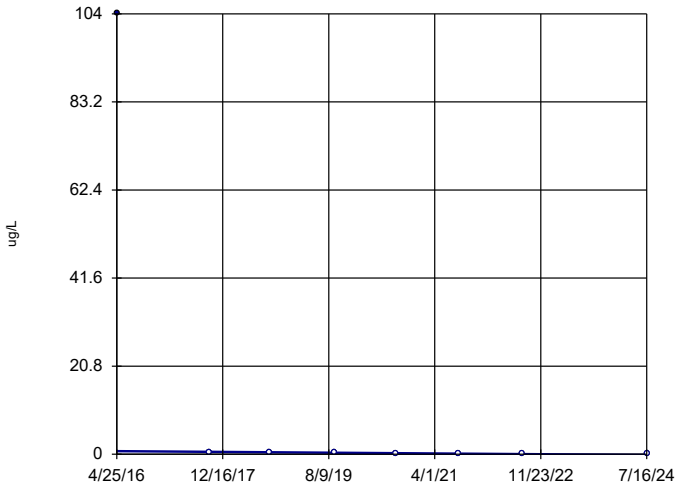
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9



n = 8

Slope = -0.1112 units per year.

Mann-Kendall statistic = -14
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Acenaphthene Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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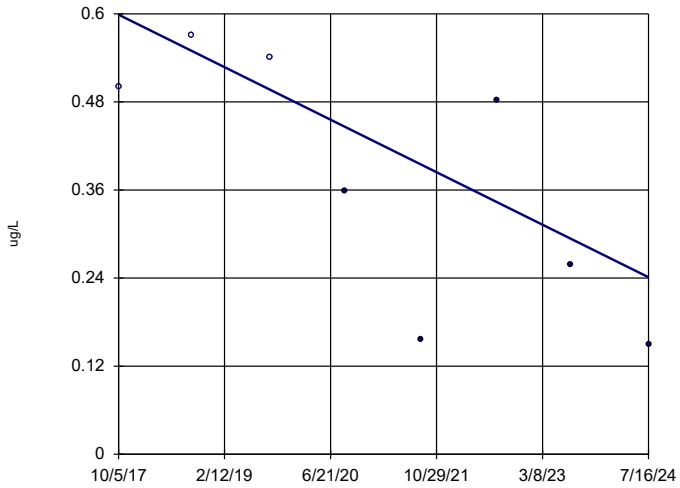
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-11



n = 8

Slope = -0.05273 units per year.

Mann-Kendall statistic = -18
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Acenaphthene Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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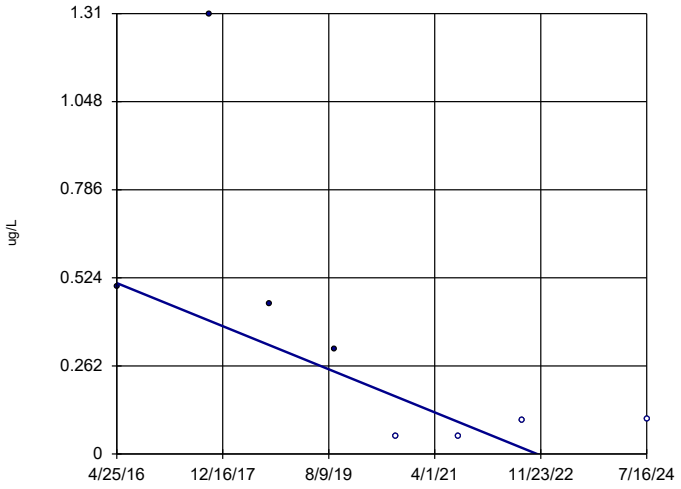
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9



n = 8

Slope = -0.07793 units per year.

Mann-Kendall statistic = -16
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Acenaphthylene Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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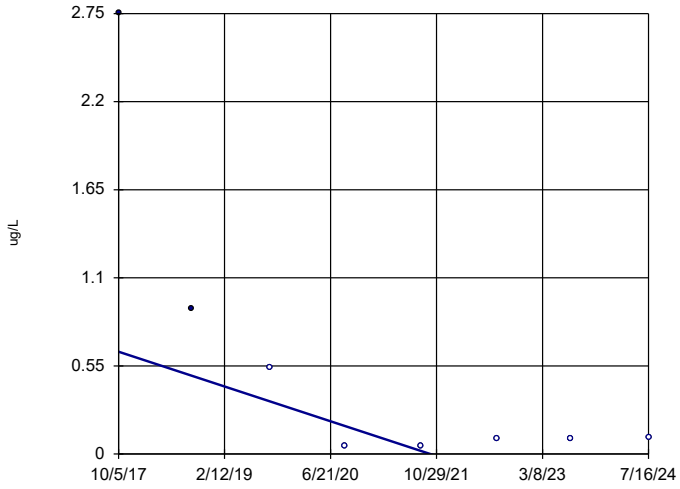
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-11



n = 8

Slope = -0.1601 units per year.

Mann-Kendall statistic = -9
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Acenaphthylene Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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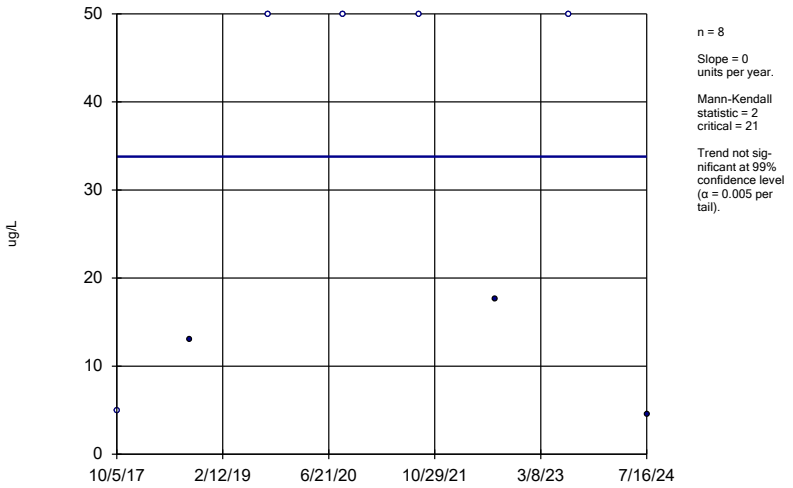
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-11

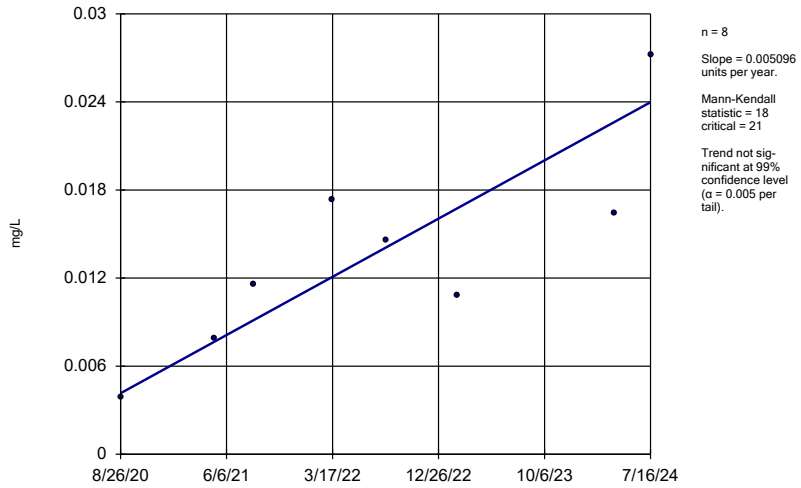


Constituent: Acetone Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-3



Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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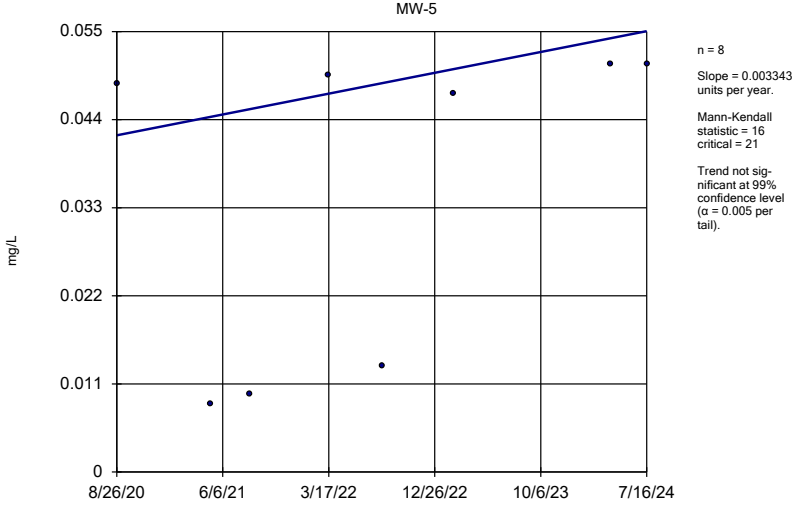
Sen's Slope Estimator

MW-5

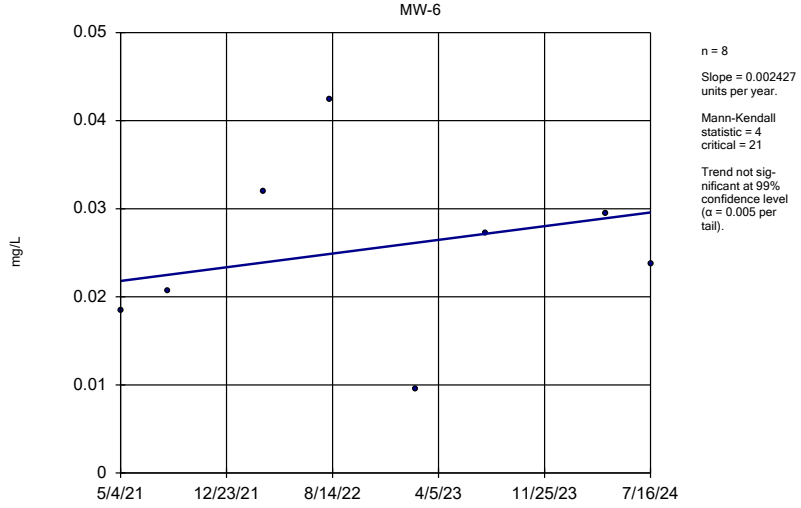


Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

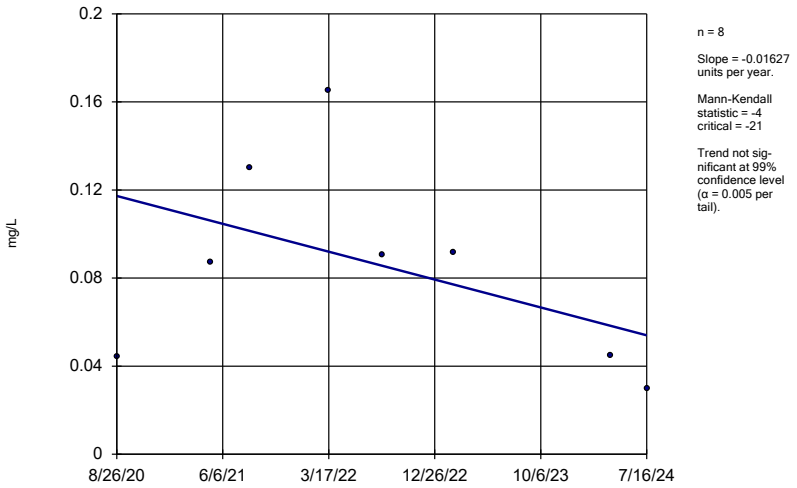
MW-6



Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-7



n = 8

Slope = -0.01627 units per year.

Mann-Kendall statistic = -4
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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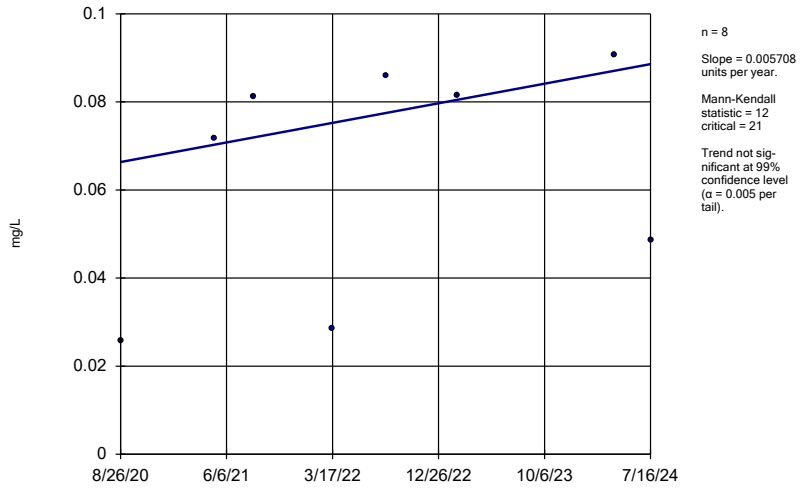
Sen's Slope Estimator

MW-9



n = 8

Slope = 0.005708 units per year.

Mann-Kendall statistic = 12
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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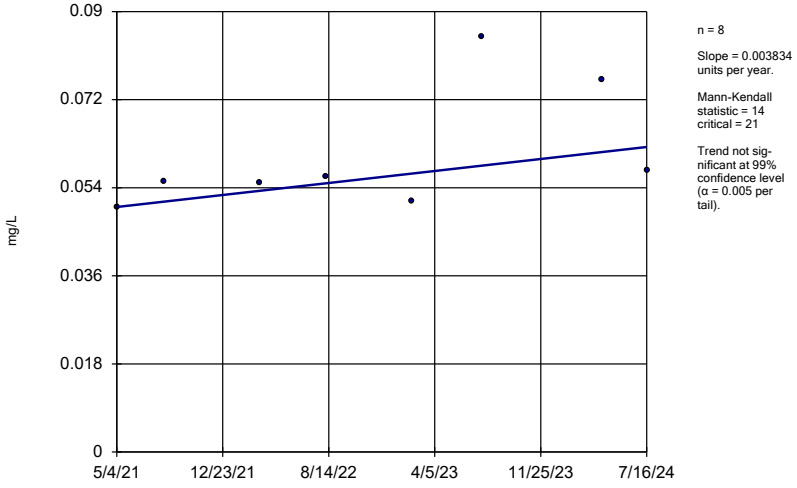
Sen's Slope Estimator

MW-11



n = 8

Slope = 0.003834 units per year.

Mann-Kendall statistic = 14
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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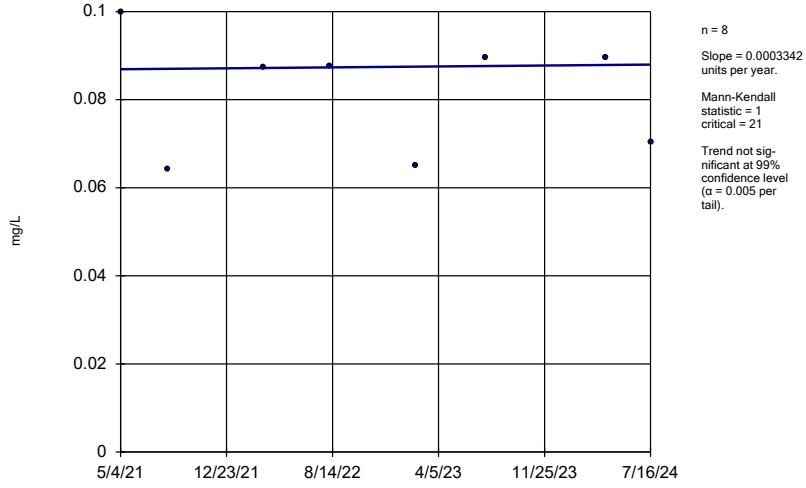
Sen's Slope Estimator

MW-12



n = 8

Slope = 0.0003342 units per year.

Mann-Kendall statistic = 1
critical = 21

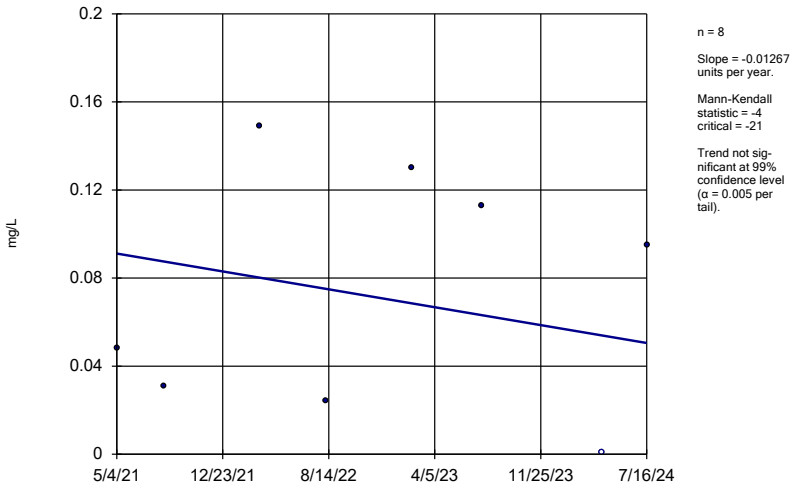
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13

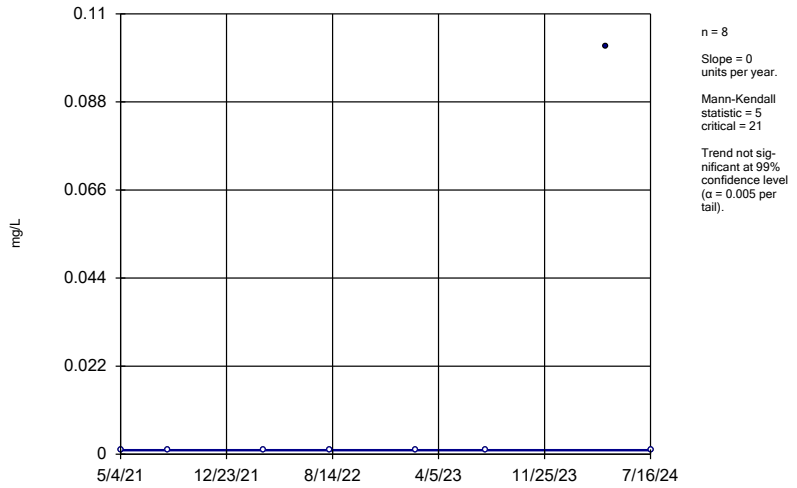


Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15

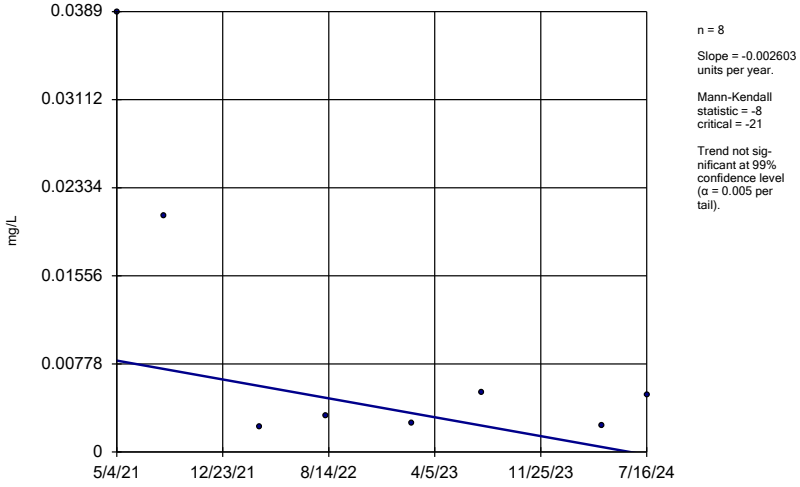


Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-18 (bg)

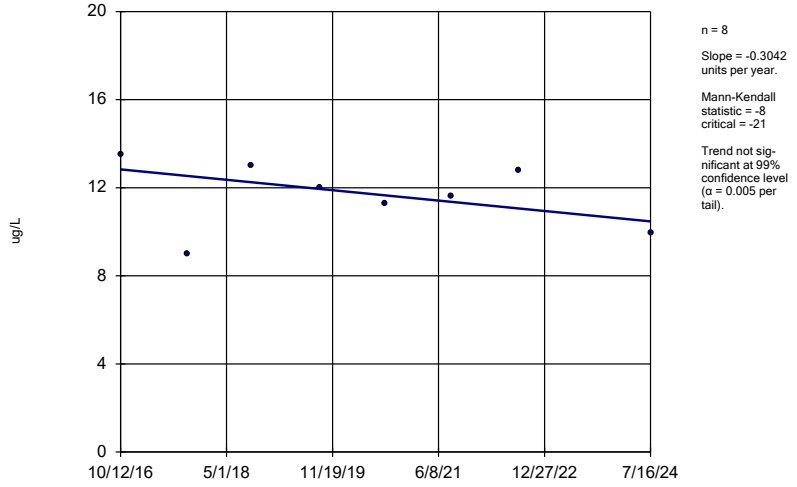


Constituent: Arsenic Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

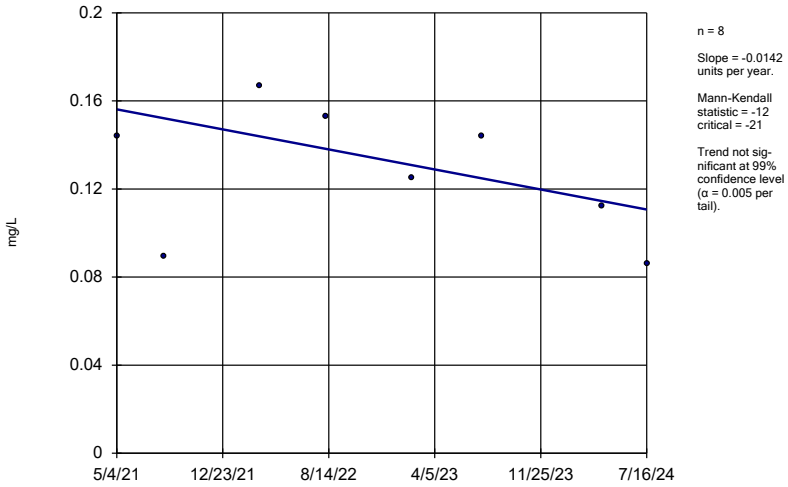
MW-9



Constituent: Benzene Analysis Run 9/24/2024 9:37 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-1 (bg)



n = 8

Slope = -0.0142 units per year.

Mann-Kendall statistic = -12
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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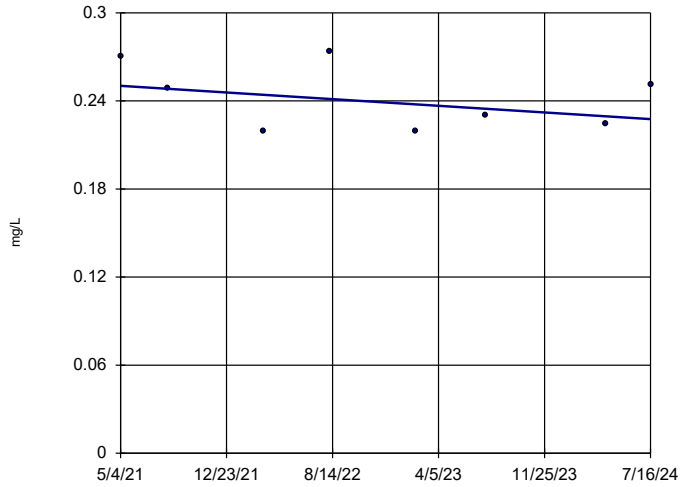
Sen's Slope Estimator

MW-2 (bg)



n = 8

Slope = -0.007098 units per year.

Mann-Kendall statistic = -3
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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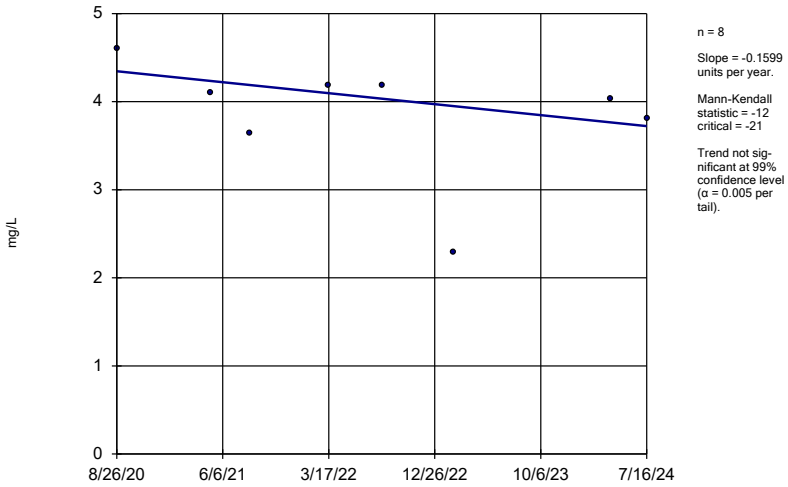
Sen's Slope Estimator

MW-3



n = 8

Slope = -0.1599 units per year.

Mann-Kendall statistic = -12
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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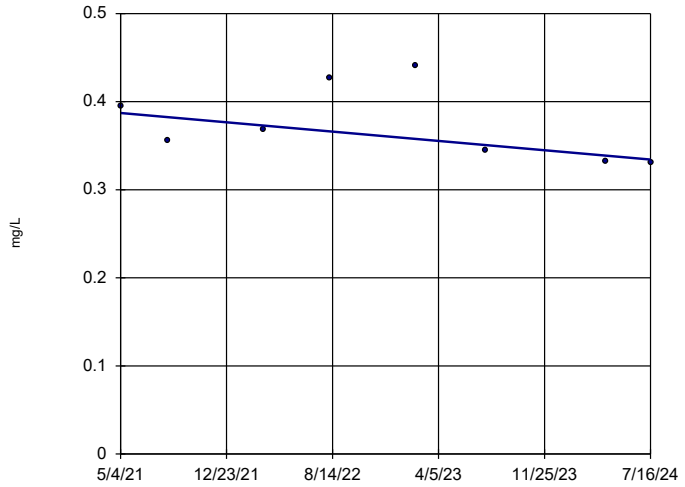
Sen's Slope Estimator

MW-4



n = 8

Slope = -0.01652 units per year.

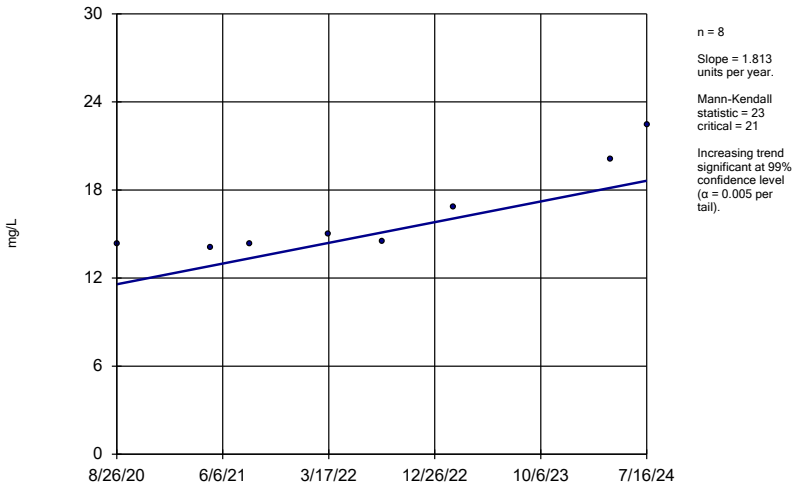
Mann-Kendall statistic = -12
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-5



n = 8

Slope = 1.813 units per year.

Mann-Kendall statistic = 23
critical = 21

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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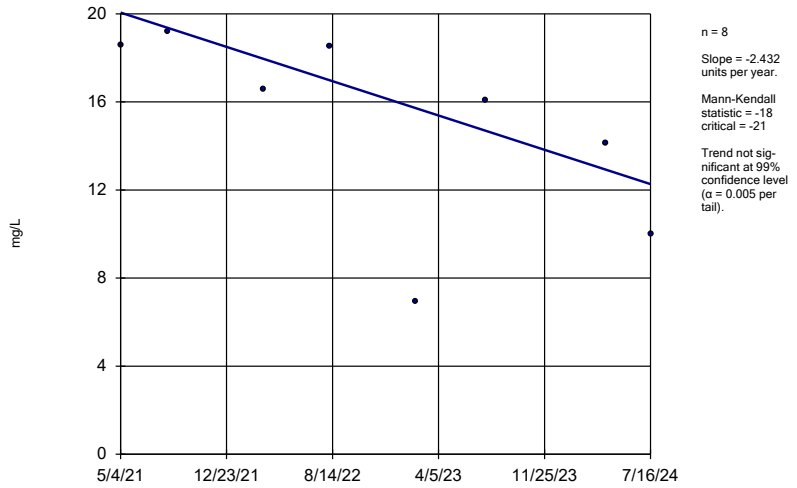
Sen's Slope Estimator

MW-6



n = 8

Slope = -2.432 units per year.

Mann-Kendall statistic = -18
critical = -21

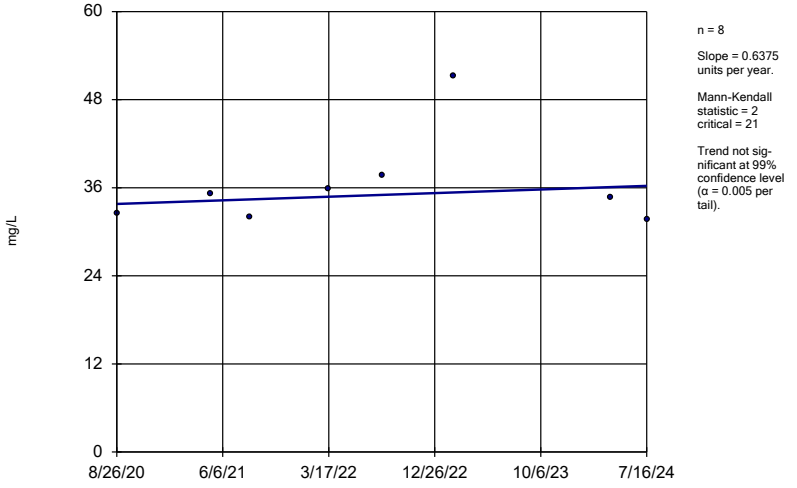
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-7



n = 8

Slope = 0.6375 units per year.

Mann-Kendall statistic = 2
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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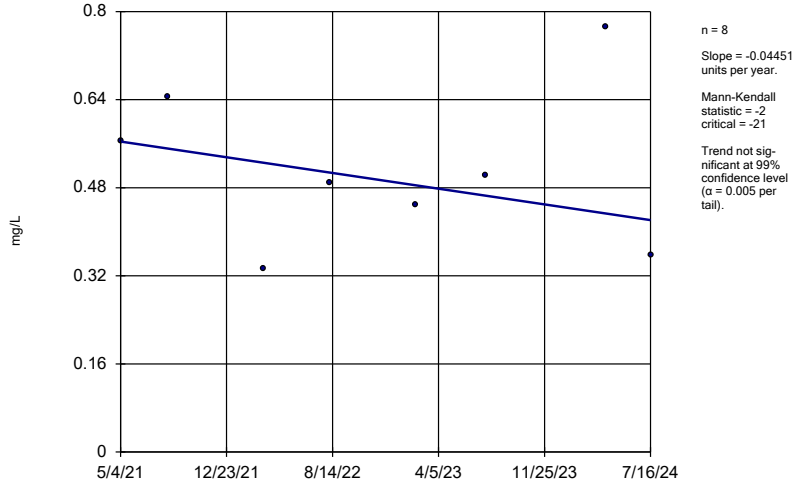
Sen's Slope Estimator

MW-8



n = 8

Slope = -0.04451 units per year.

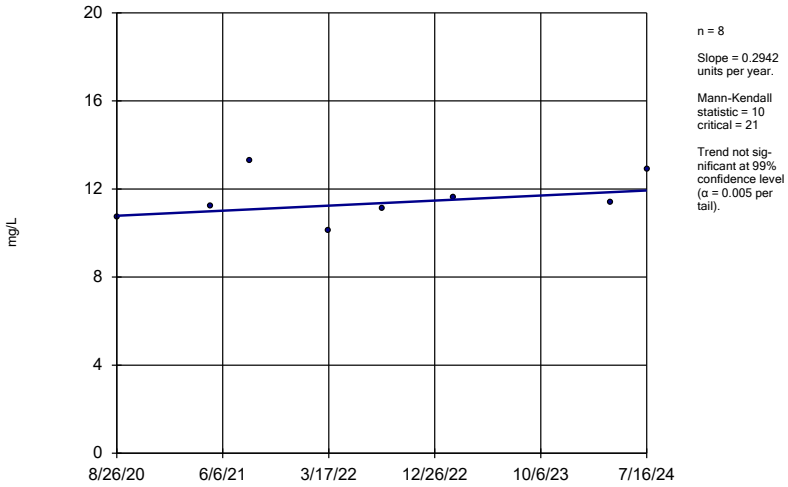
Mann-Kendall statistic = -2
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

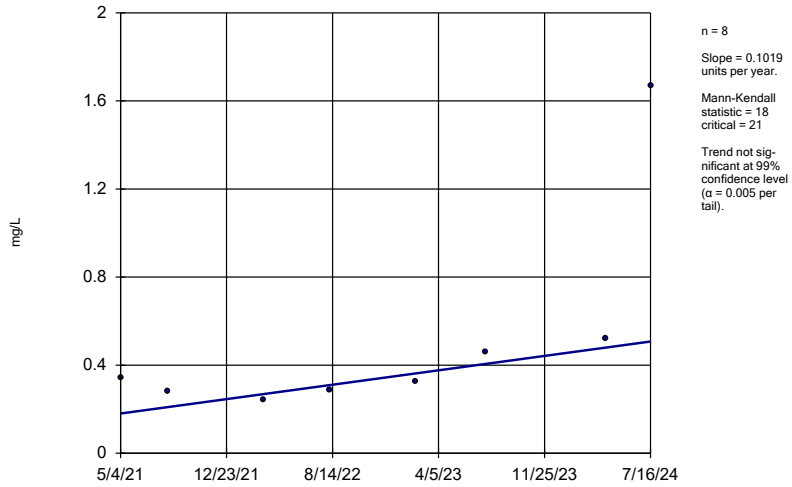
MW-9



Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-10

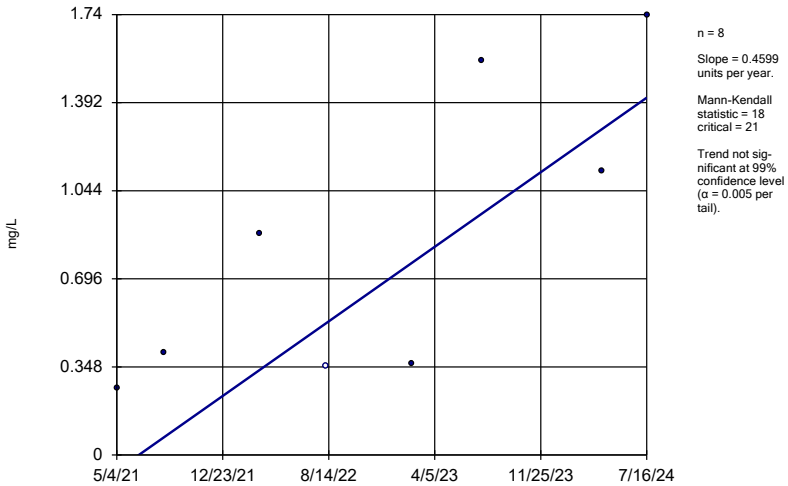


Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

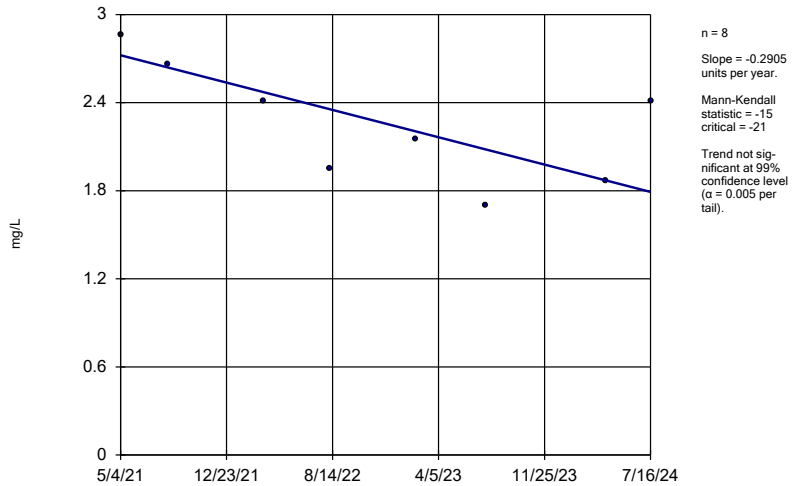
MW-11



Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

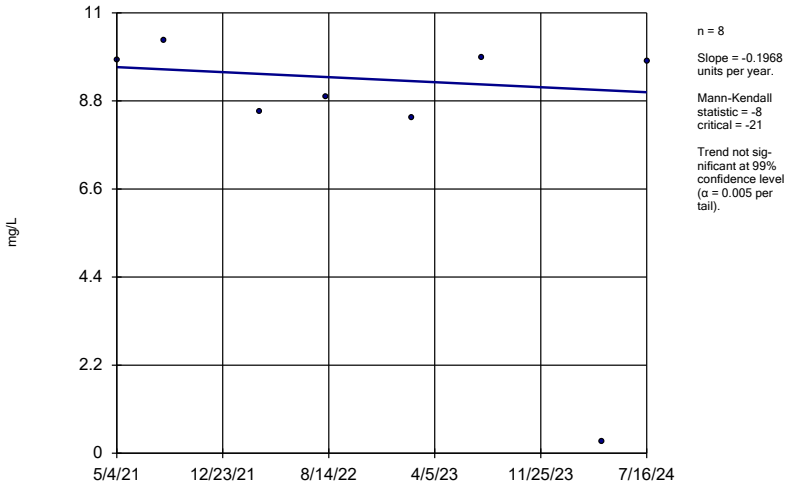
MW-12



Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-13



n = 8

Slope = -0.1968 units per year.

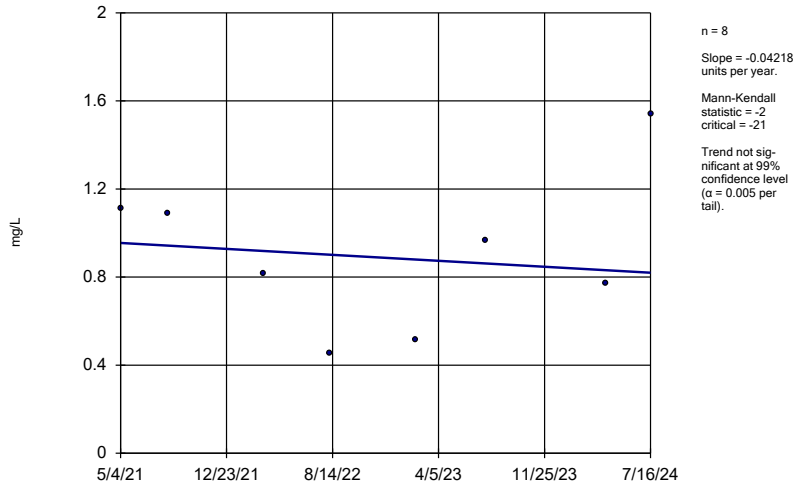
Mann-Kendall statistic = -8
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-14



n = 8

Slope = -0.04218 units per year.

Mann-Kendall statistic = -2
critical = -21

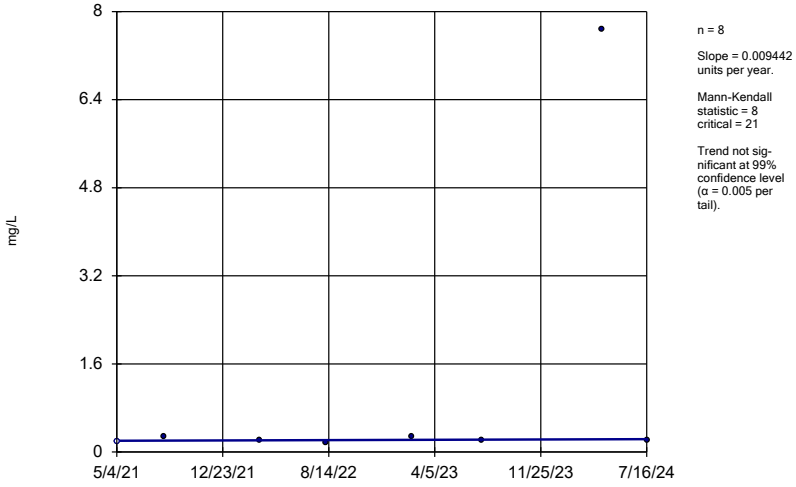
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15



n = 8

Slope = 0.009442 units per year.

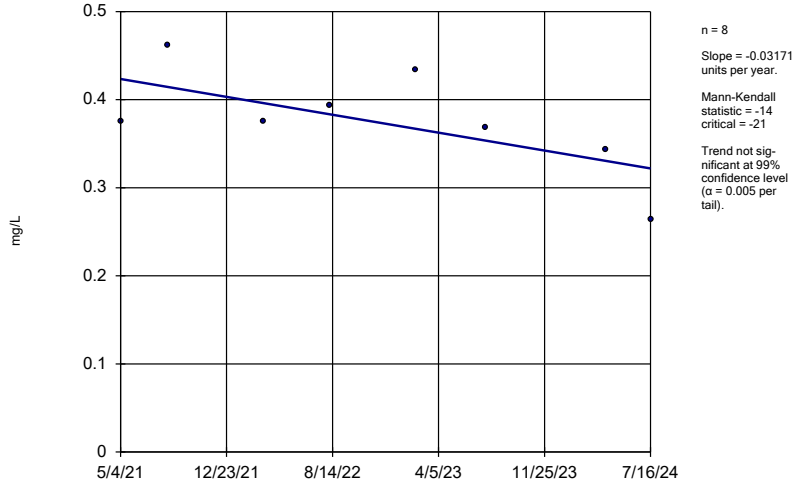
Mann-Kendall statistic = 8
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-16



n = 8

Slope = -0.03171 units per year.

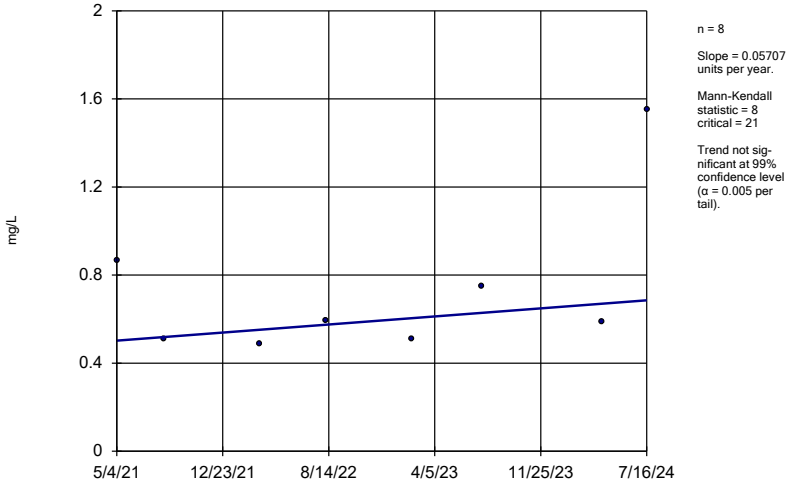
Mann-Kendall statistic = -14
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-17 (bg)



Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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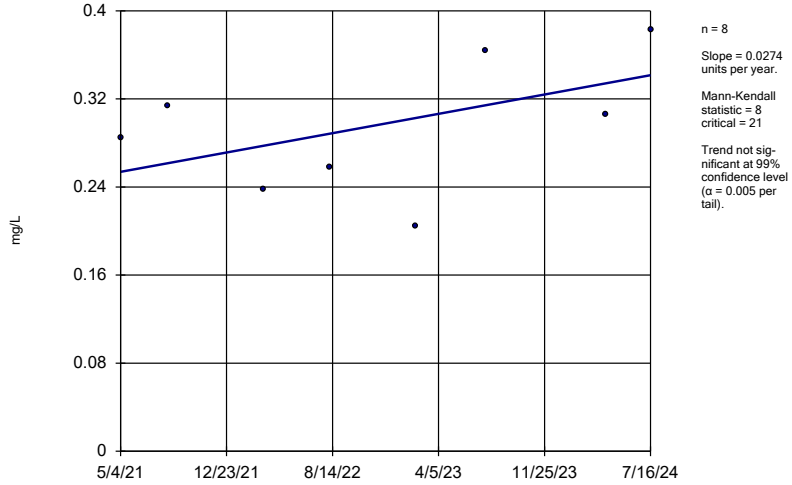
Sen's Slope Estimator

MW-18 (bg)

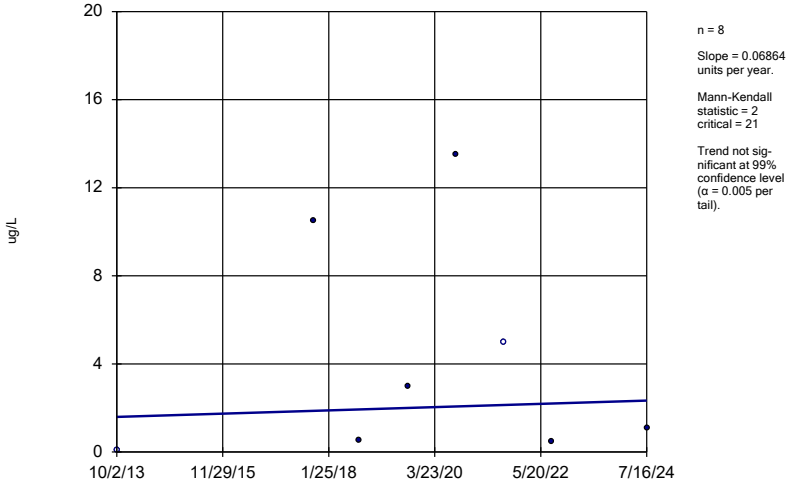


Constituent: Boron Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9

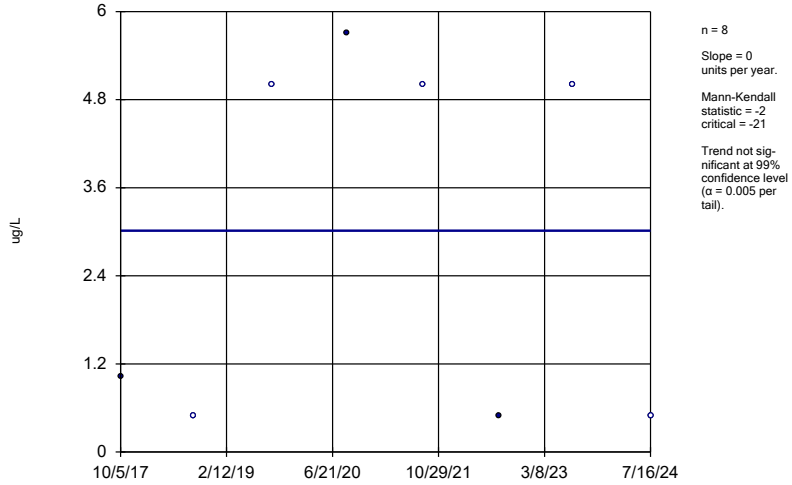


Constituent: Carbon Disulfide Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-11

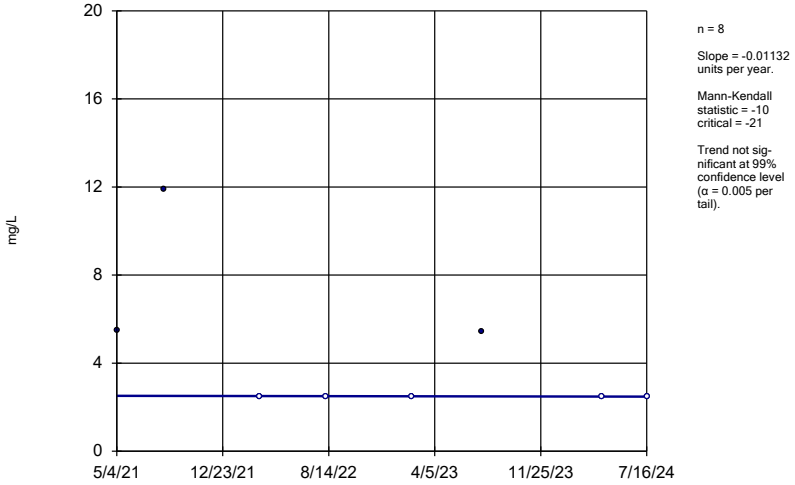


Constituent: Carbon Disulfide Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-1 (bg)



n = 8

Slope = -0.01132 units per year.

Mann-Kendall statistic = -10
critical = -21

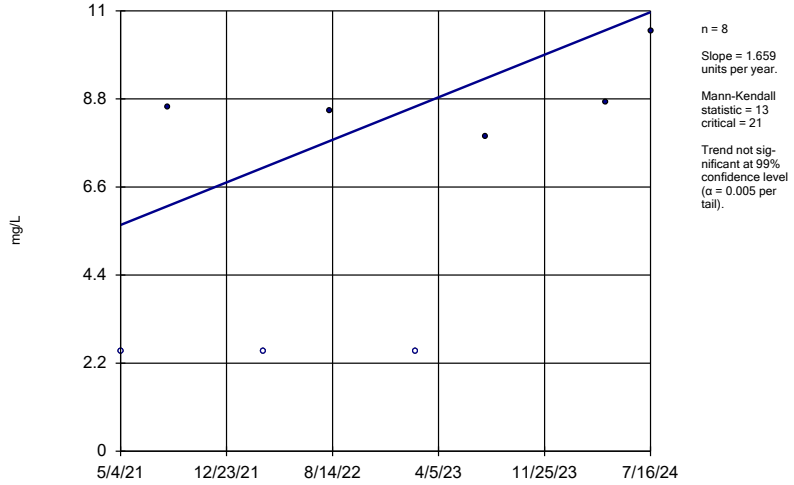
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-2 (bg)



n = 8

Slope = 1.659 units per year.

Mann-Kendall statistic = 13
critical = 21

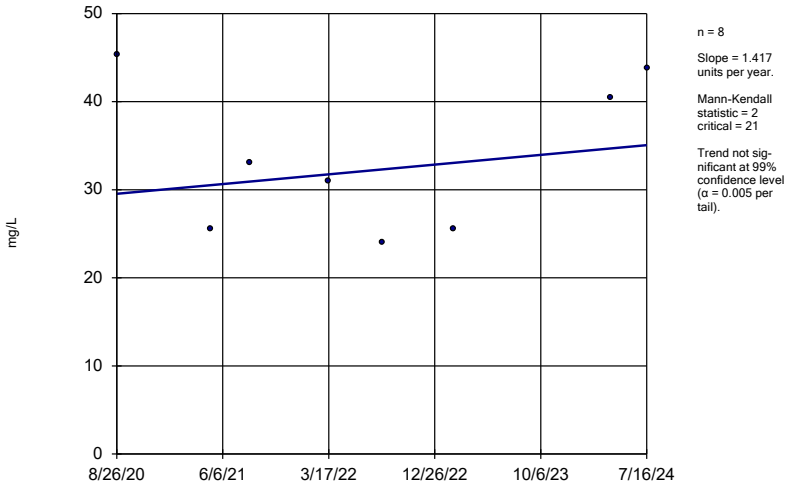
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-3



n = 8

Slope = 1.417 units per year.

Mann-Kendall statistic = 2
critical = 21

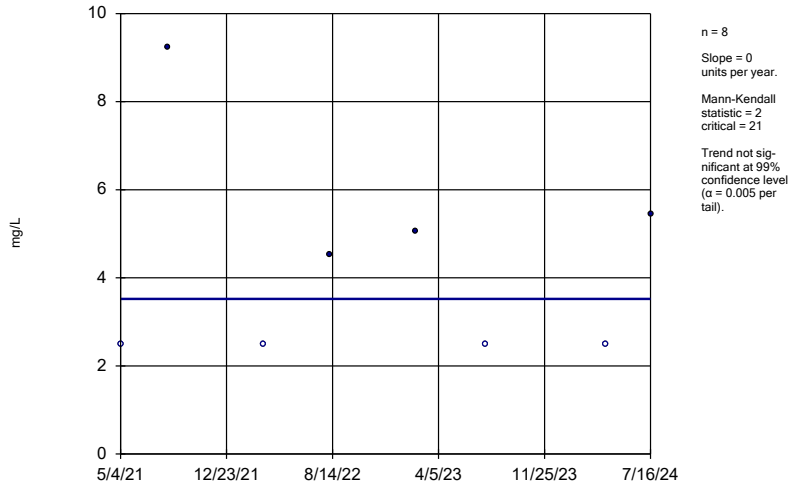
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-4



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 21

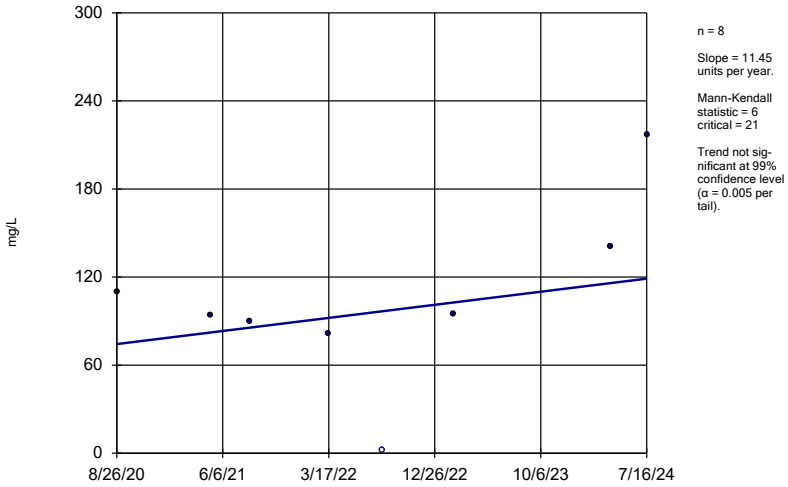
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



n = 8

Slope = 11.45 units per year.

Mann-Kendall statistic = 6
critical = 21

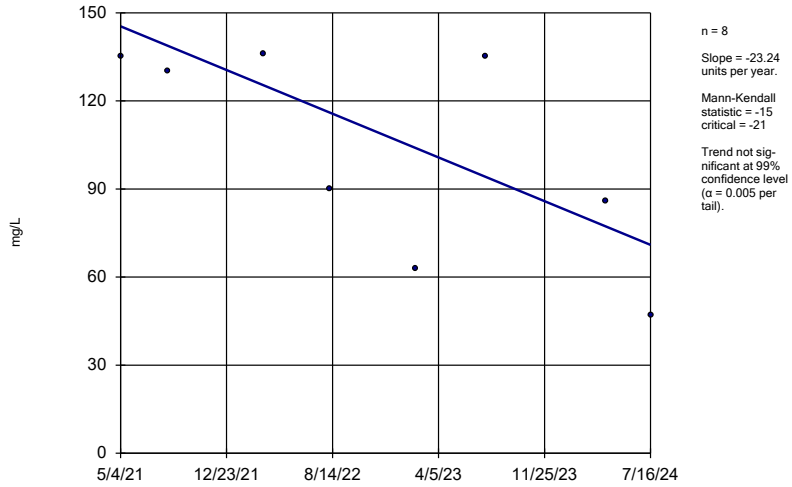
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-6



n = 8

Slope = -23.24 units per year.

Mann-Kendall statistic = -15
critical = -21

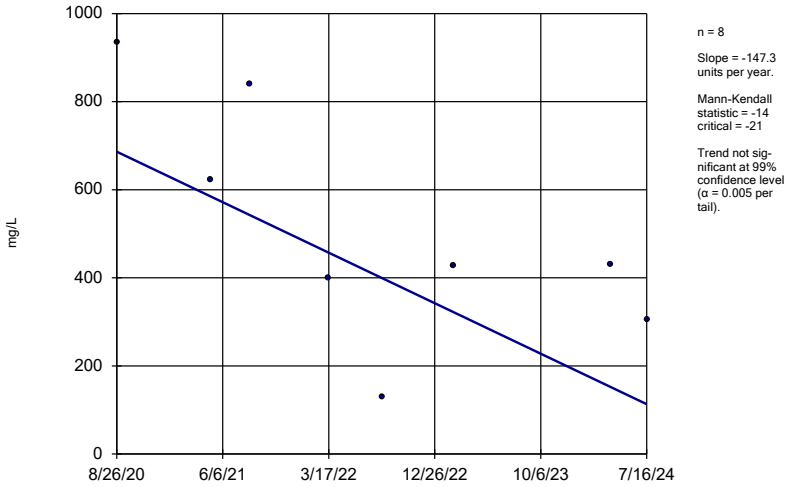
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-7



n = 8

Slope = -147.3 units per year.

Mann-Kendall statistic = -14
critical = -21

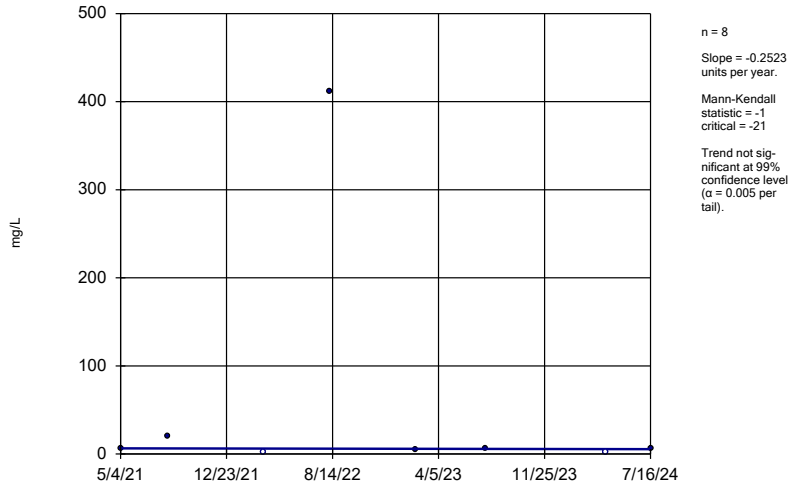
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-8



n = 8

Slope = -0.2523 units per year.

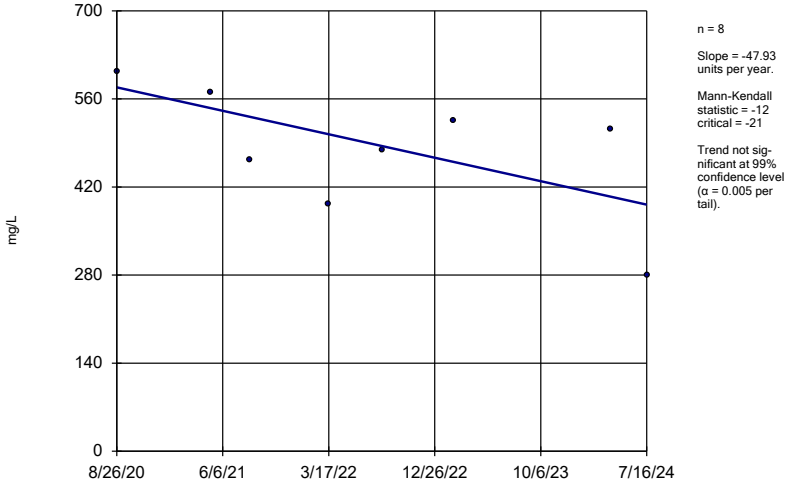
Mann-Kendall statistic = -1
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-9

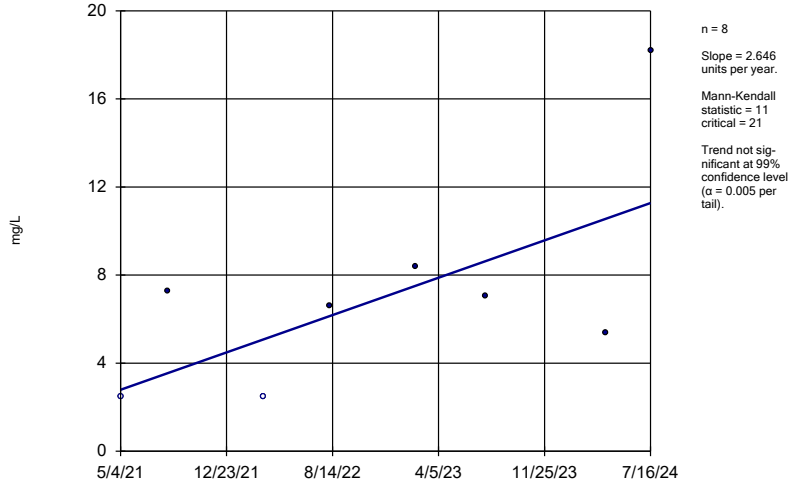


Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

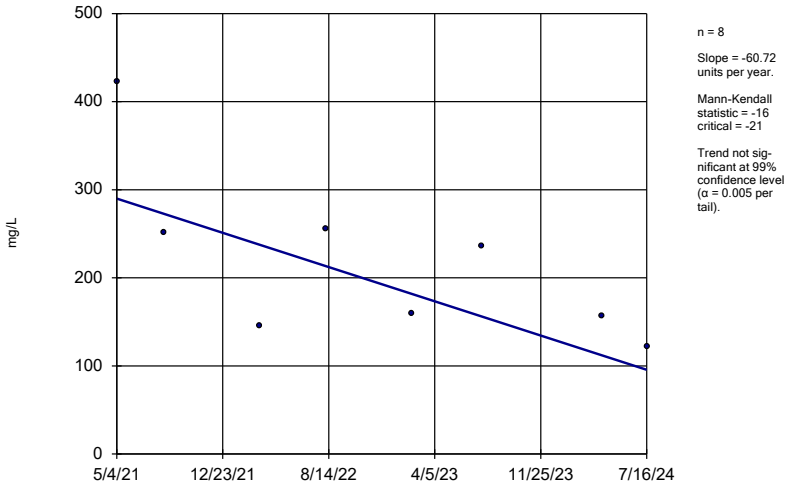
MW-10



Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

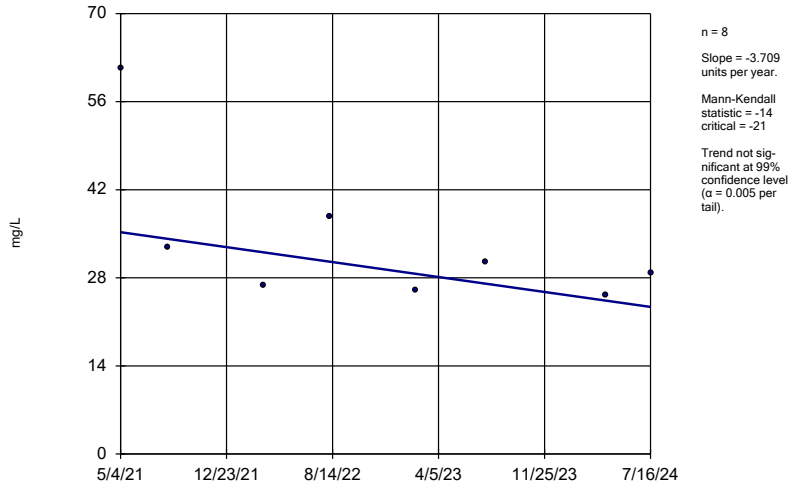
MW-11



Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-12

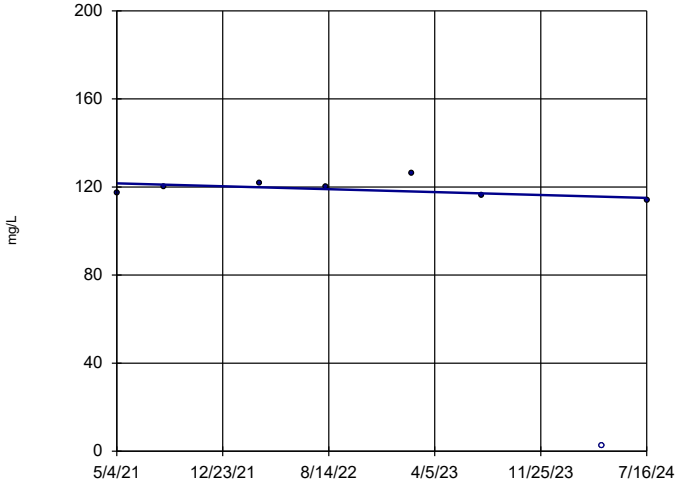


Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13



n = 8

Slope = -2.071 units per year.

Mann-Kendall statistic = -9
critical = -21

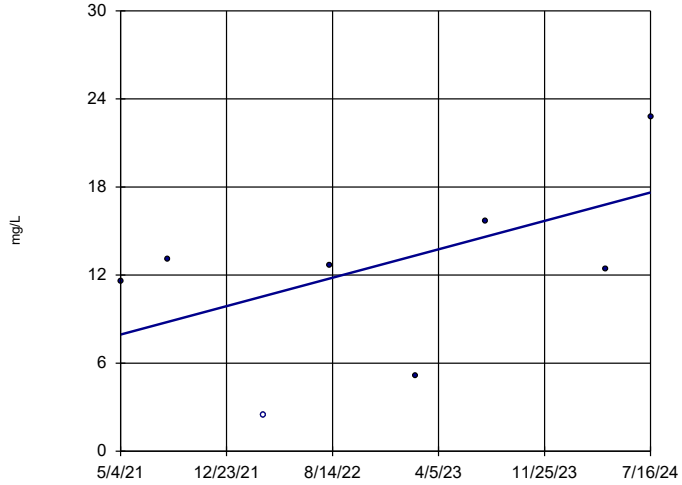
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14



n = 8

Slope = 3.02 units per year.

Mann-Kendall statistic = 10
critical = 21

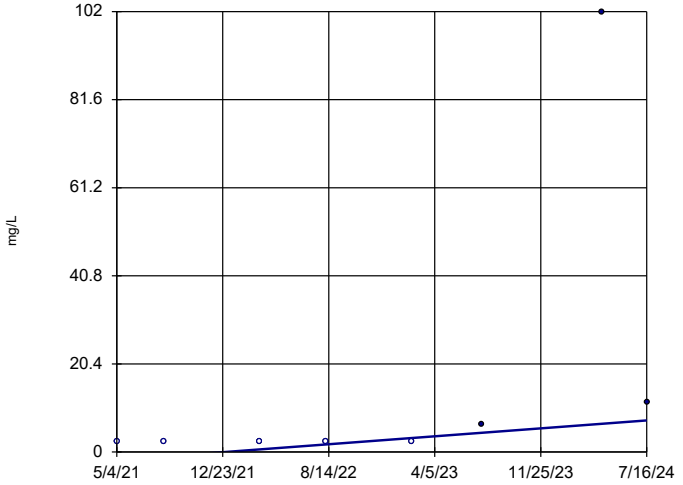
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15



n = 8

Slope = 2.874 units per year.

Mann-Kendall statistic = 16
critical = 21

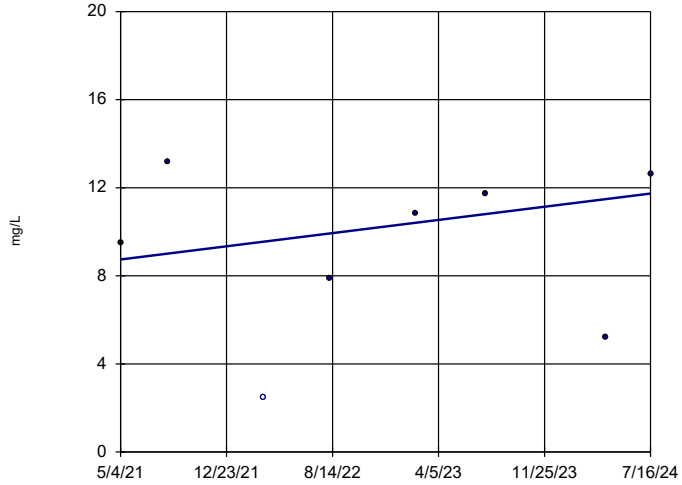
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-16



n = 8

Slope = 0.9349 units per year.

Mann-Kendall statistic = 4
critical = 21

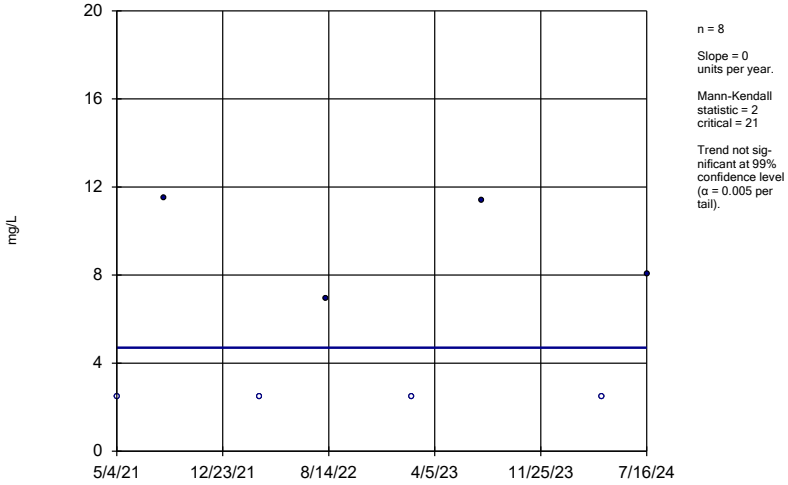
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17 (bg)

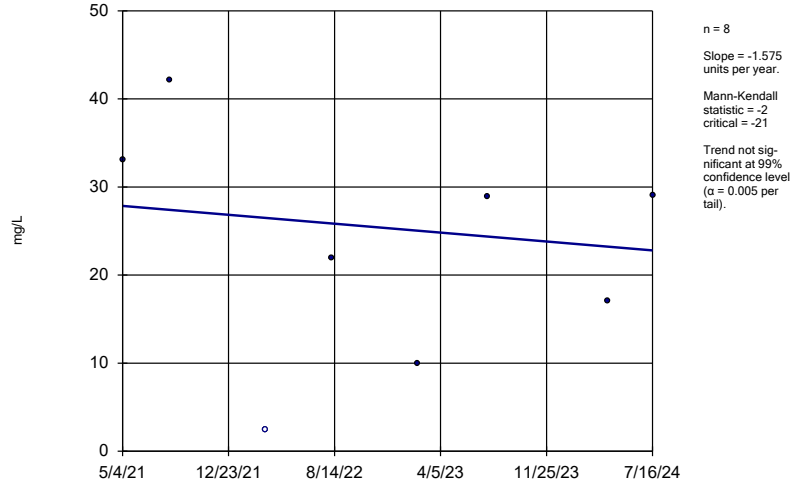


Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18 (bg)

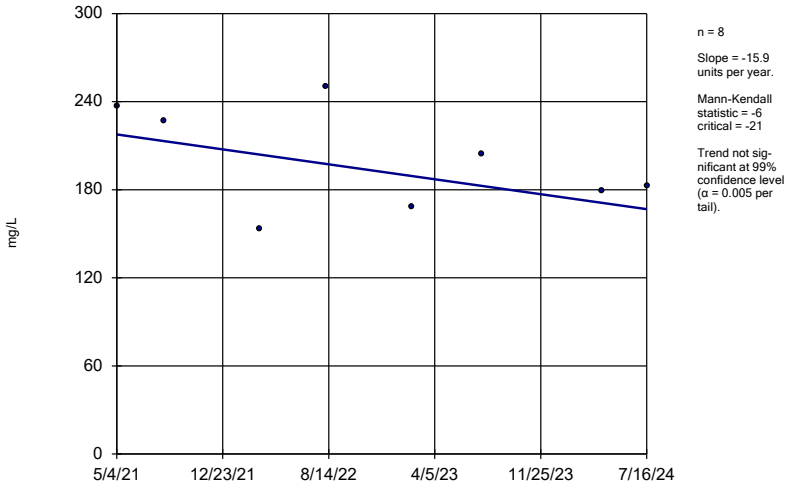


Constituent: Chemical Oxygen Demand Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kend
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-1 (bg)

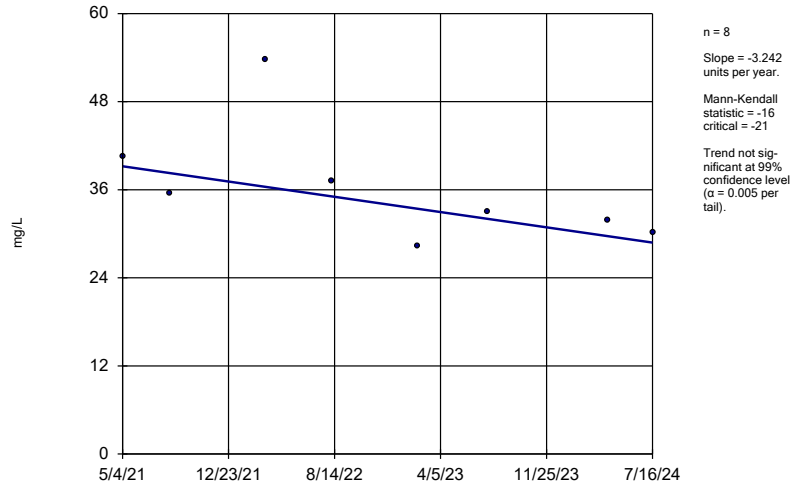


Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

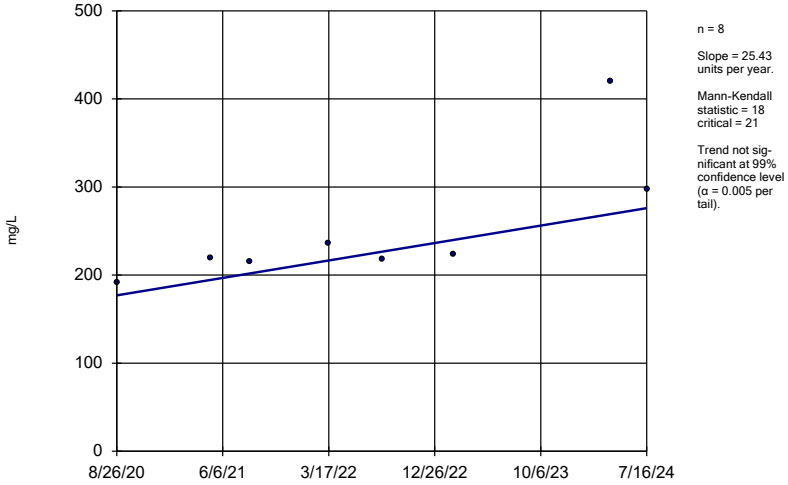
MW-2 (bg)



Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-3

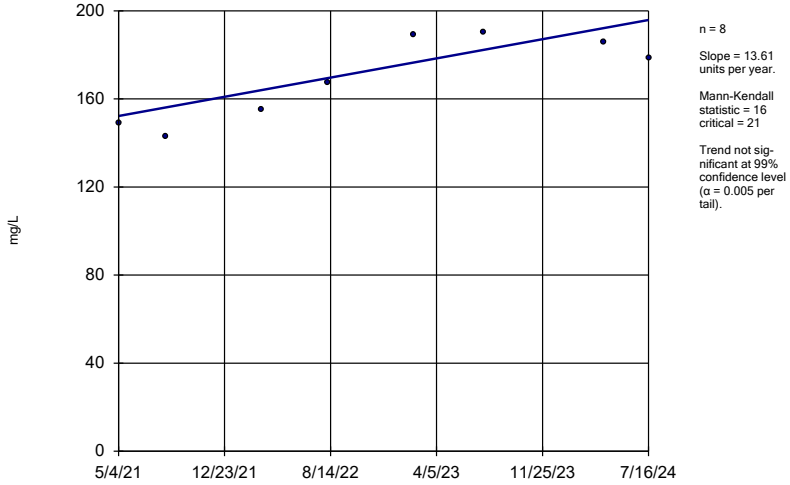


Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-4

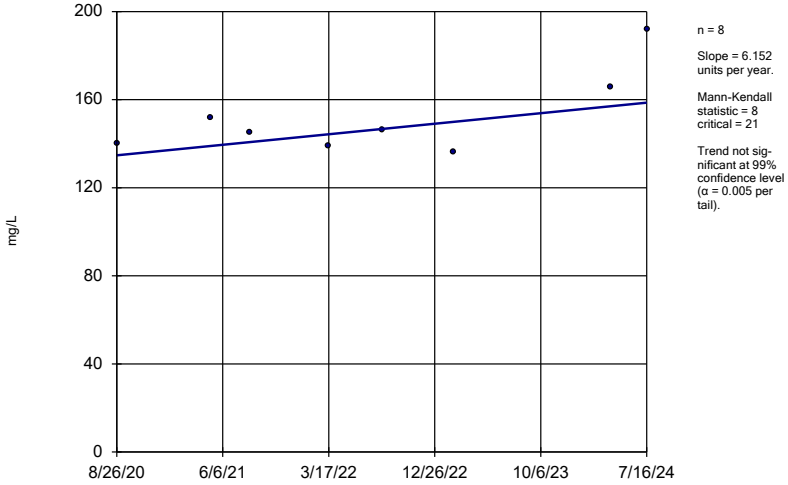


Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-5

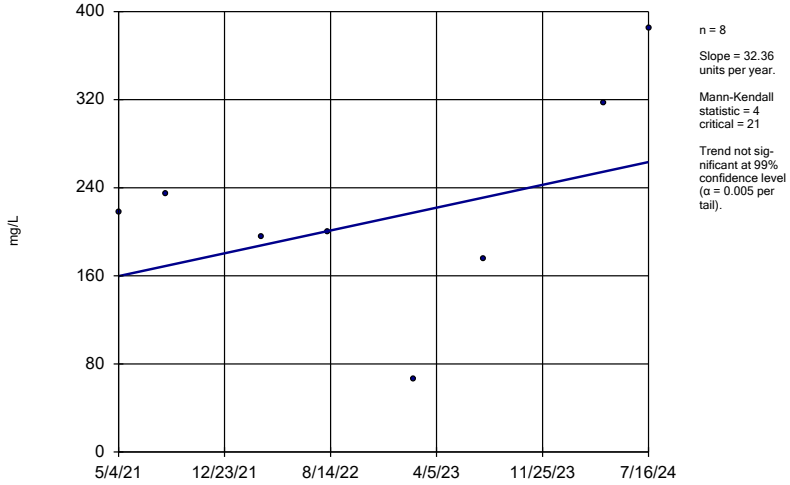


Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

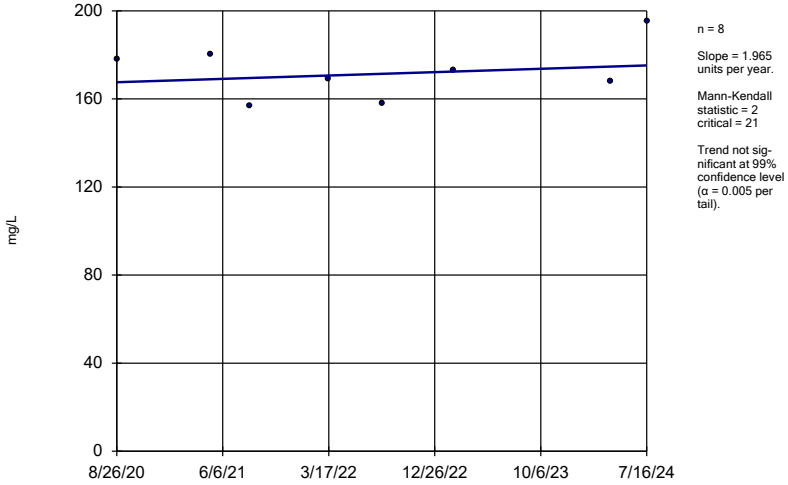
MW-6



Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

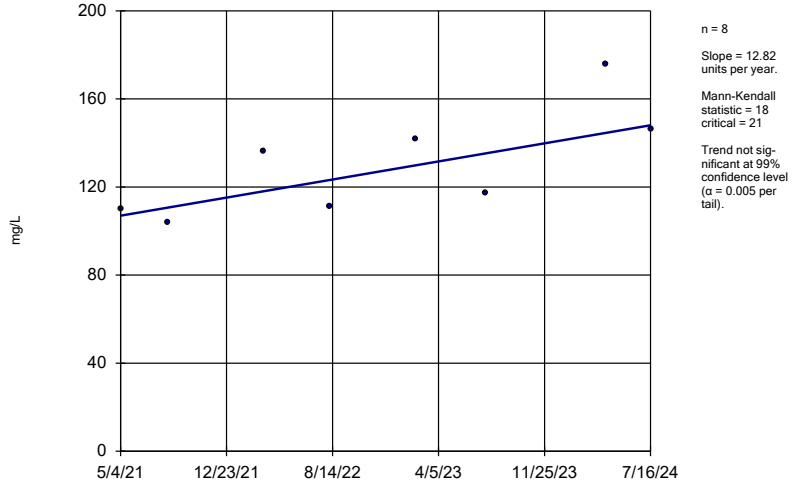
MW-7



Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

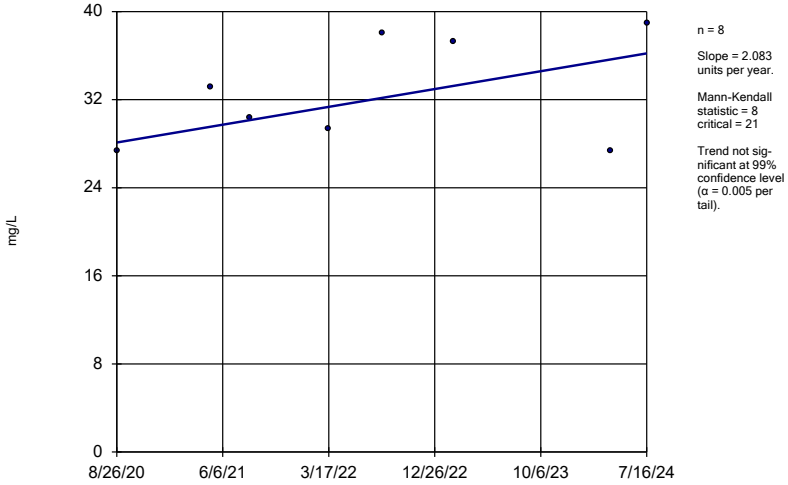
MW-8



Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-9

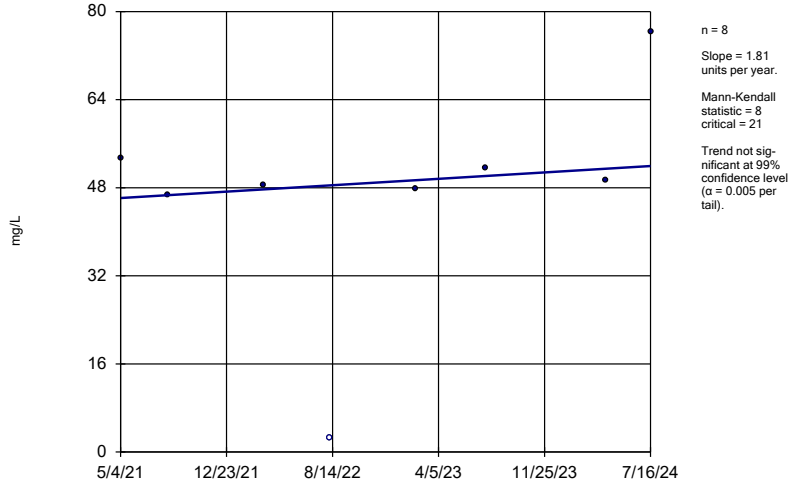


Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

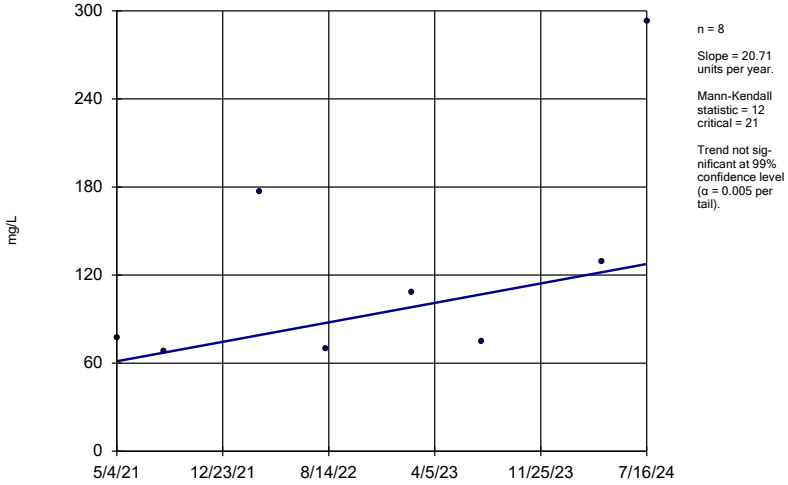
MW-10



Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-11



n = 8

Slope = 20.71 units per year.

Mann-Kendall statistic = 12 critical = 21

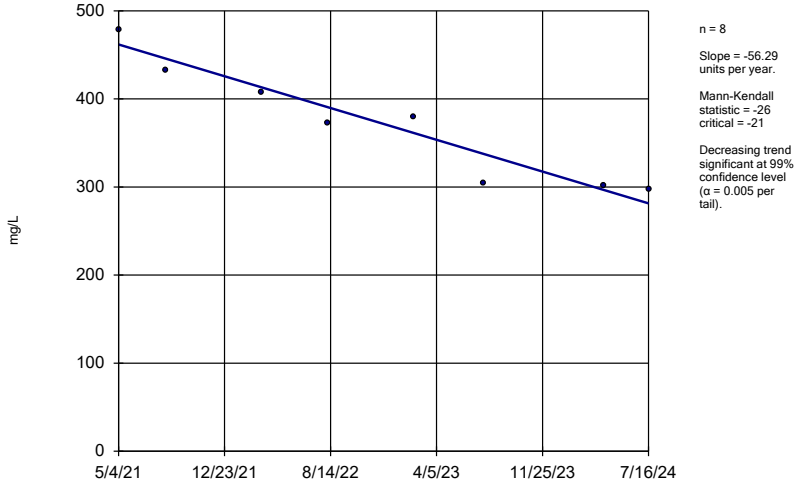
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-12



n = 8

Slope = -56.29 units per year.

Mann-Kendall statistic = -26 critical = -21

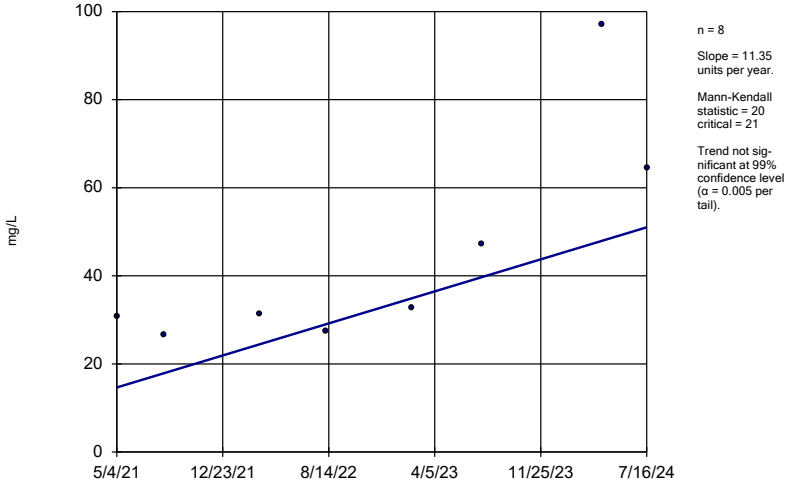
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-13



n = 8

Slope = 11.35 units per year.

Mann-Kendall statistic = 20 critical = 21

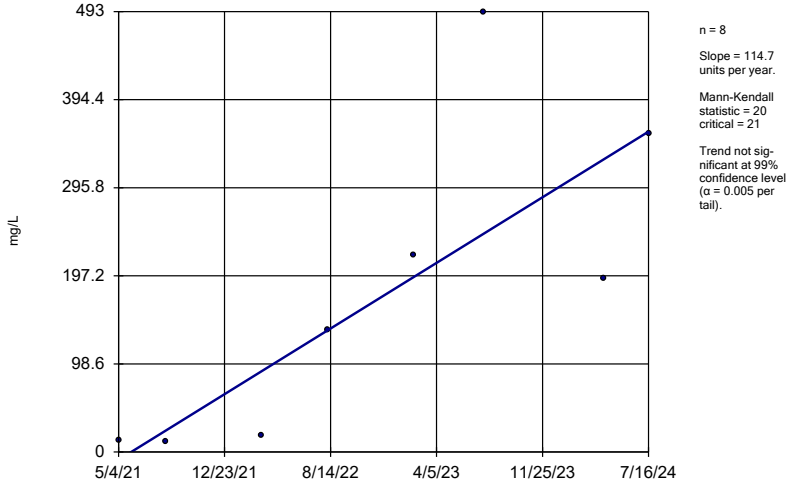
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



n = 8

Slope = 114.7 units per year.

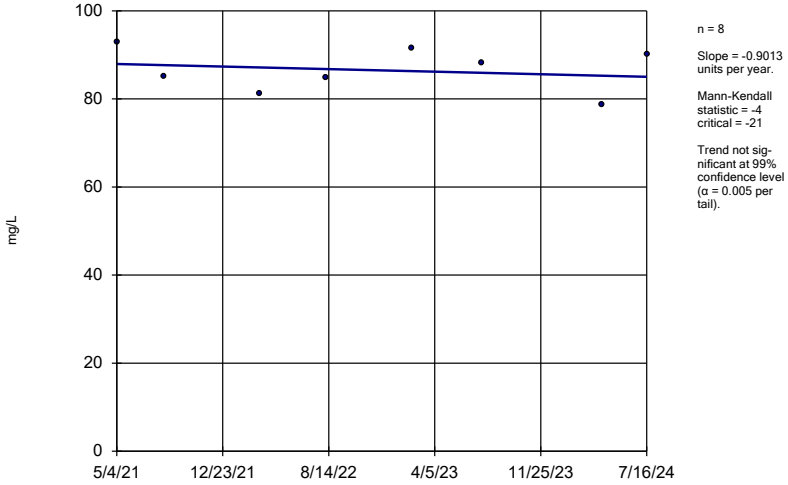
Mann-Kendall statistic = 20 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-15



n = 8

Slope = -0.9013 units per year.

Mann-Kendall statistic = -4 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

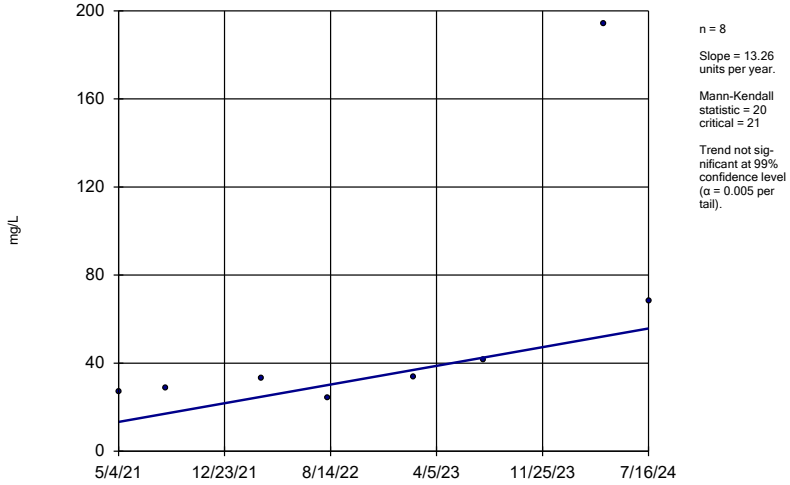
Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-16



n = 8

Slope = 13.26 units per year.

Mann-Kendall statistic = 20 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

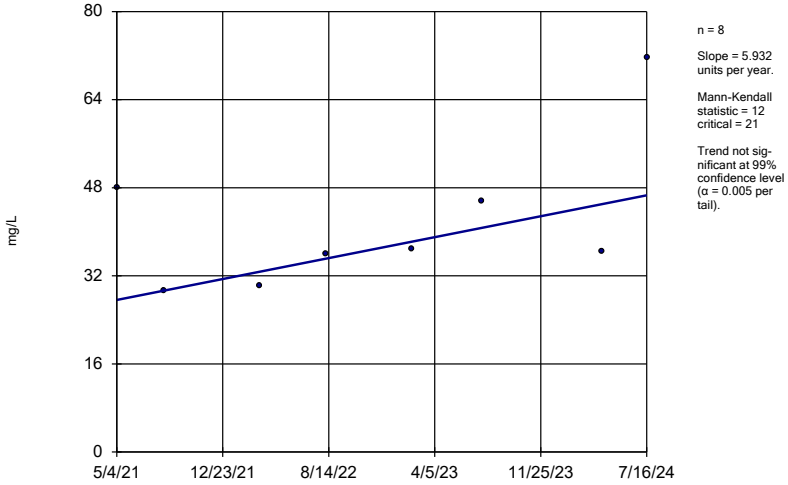
Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-17 (bg)



n = 8

Slope = 5.932 units per year.

Mann-Kendall statistic = 12 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

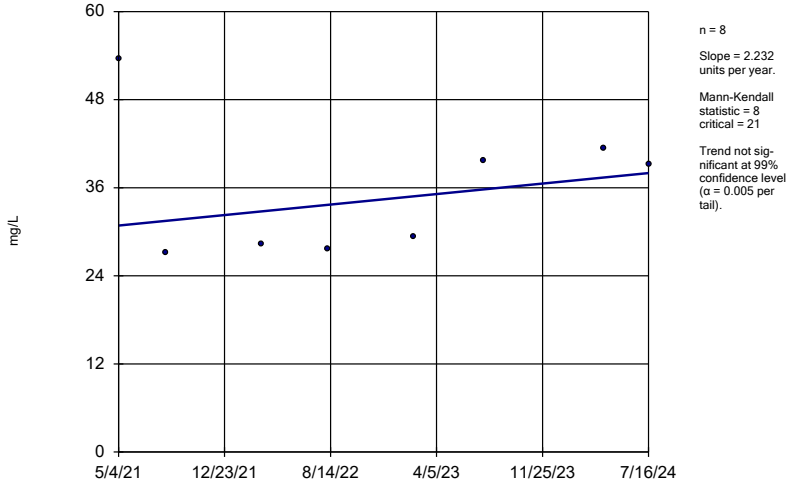
Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-18 (bg)



n = 8

Slope = 2.232 units per year.

Mann-Kendall statistic = 8 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

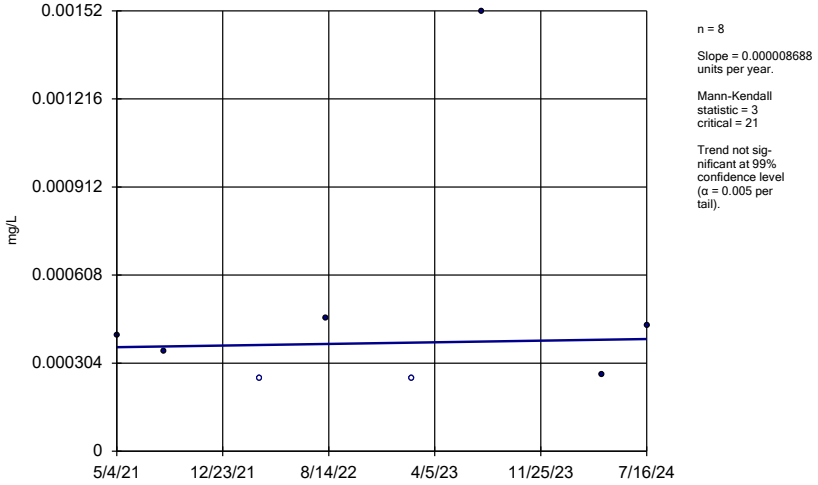
Constituent: Chloride Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-2 (bg)



n = 8

Slope = 0.000008688 units per year.

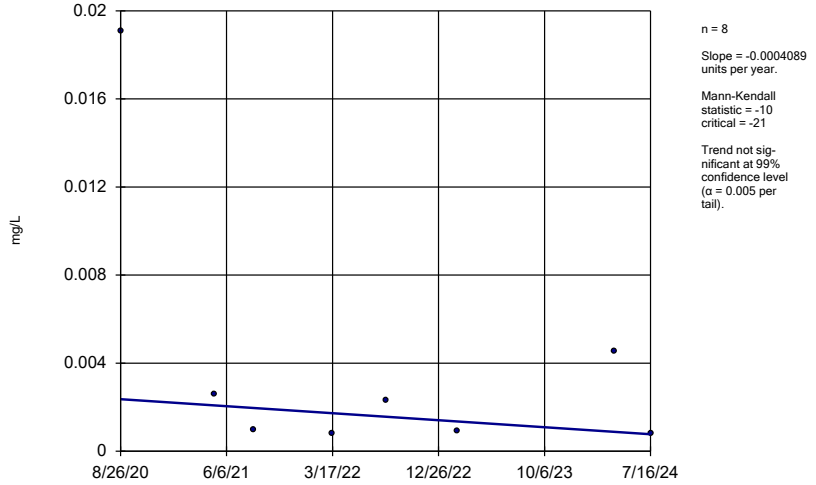
Mann-Kendall statistic = 3
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/24/2024 9:38 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-3



n = 8

Slope = -0.0004089 units per year.

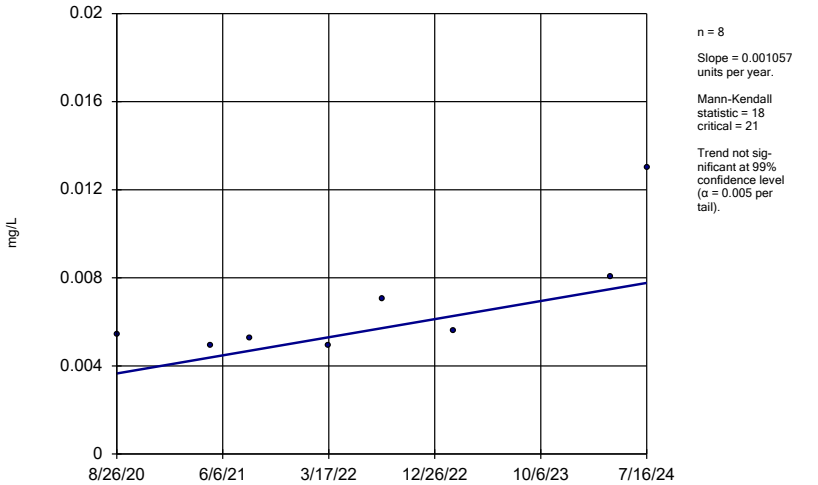
Mann-Kendall statistic = -10
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-5



n = 8

Slope = 0.001057 units per year.

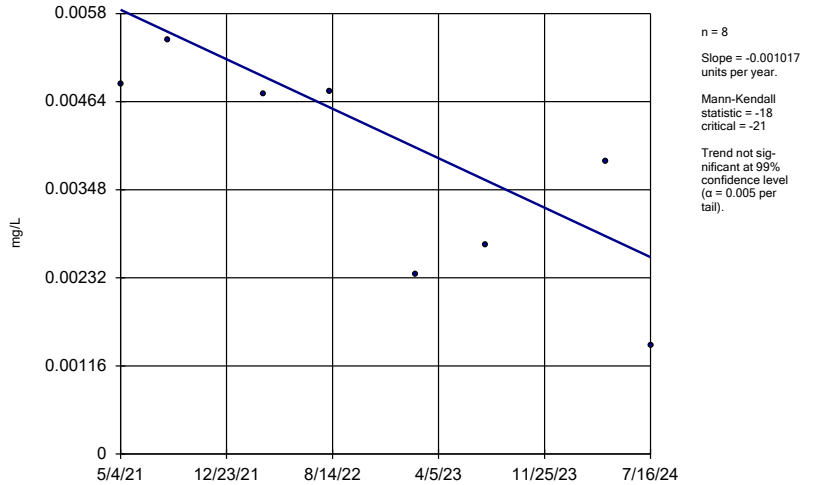
Mann-Kendall statistic = 18
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-6



n = 8

Slope = -0.001017 units per year.

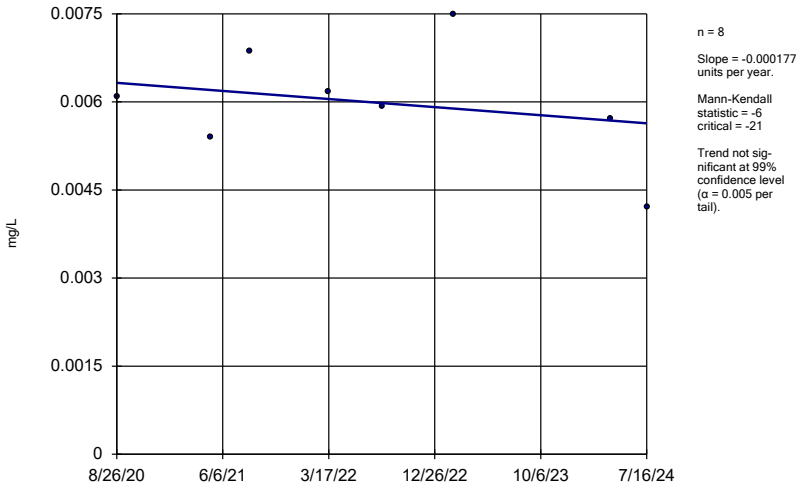
Mann-Kendall statistic = -18
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-7



n = 8

Slope = -0.000177 units per year.

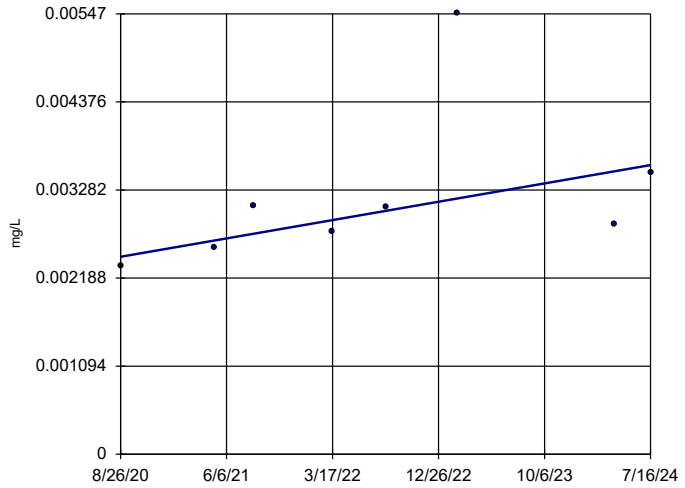
Mann-Kendall statistic = -6
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-9



n = 8

Slope = 0.000293 units per year.

Mann-Kendall statistic = 16
critical = 21

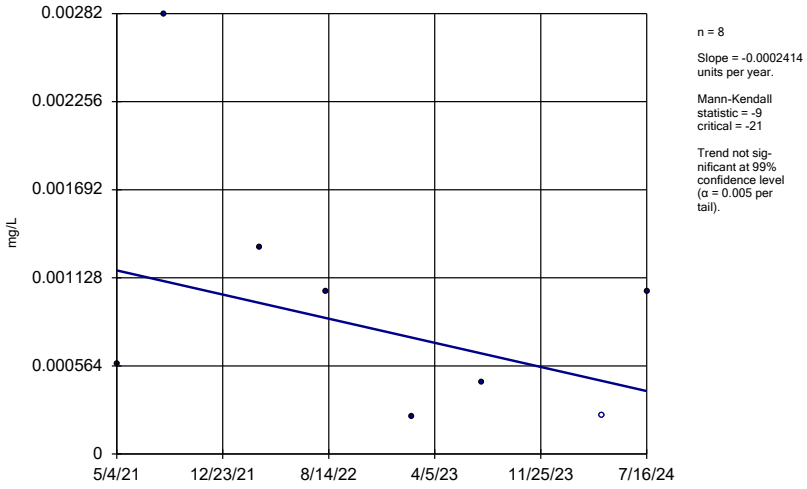
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10



n = 8

Slope = -0.0002414 units per year.

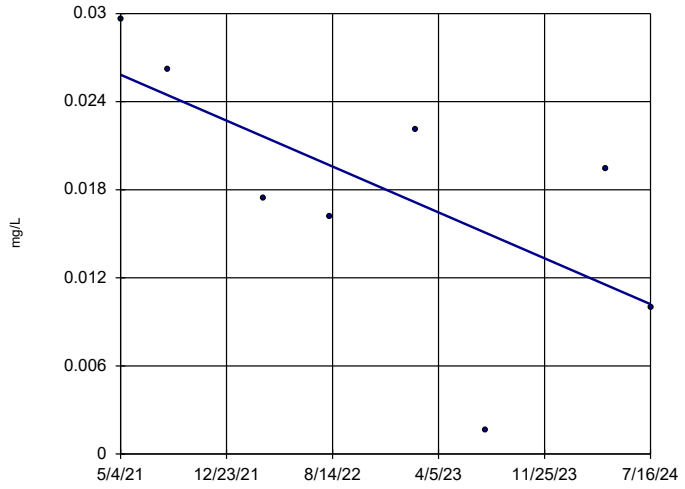
Mann-Kendall statistic = -9
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-11



n = 8

Slope = -0.004881 units per year.

Mann-Kendall statistic = -16
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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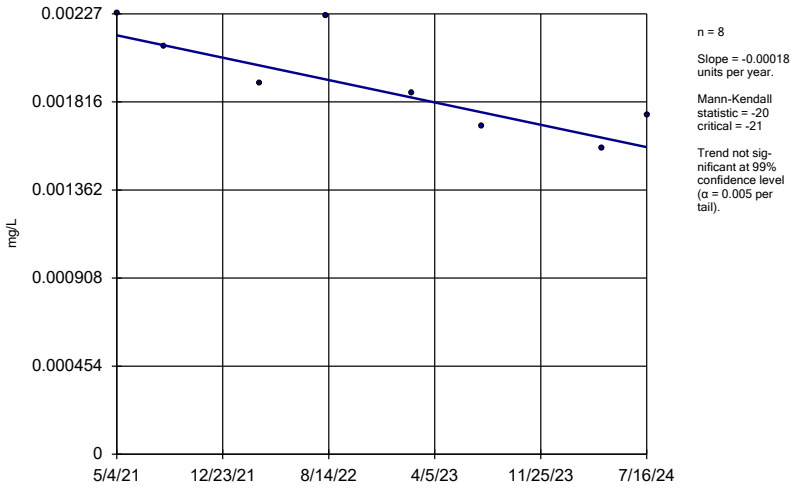
Sen's Slope Estimator

MW-12



Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

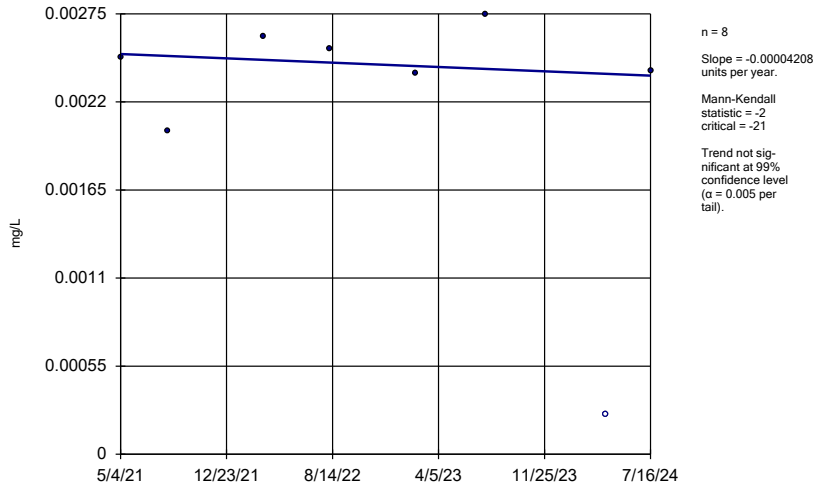
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13



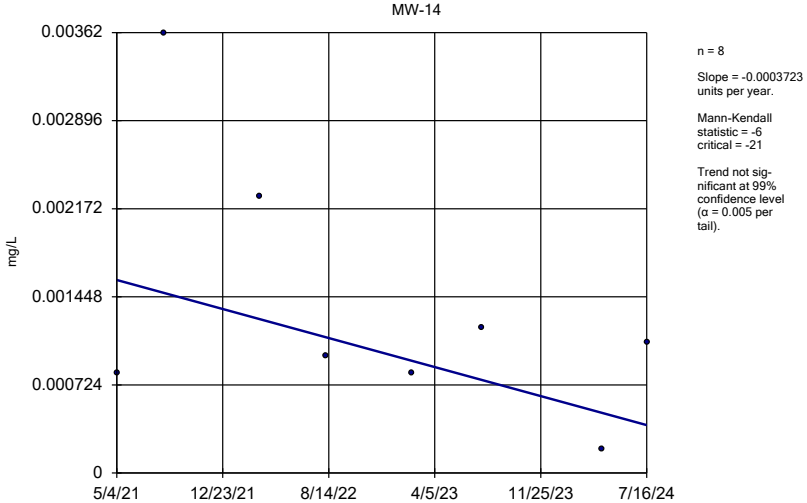
Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

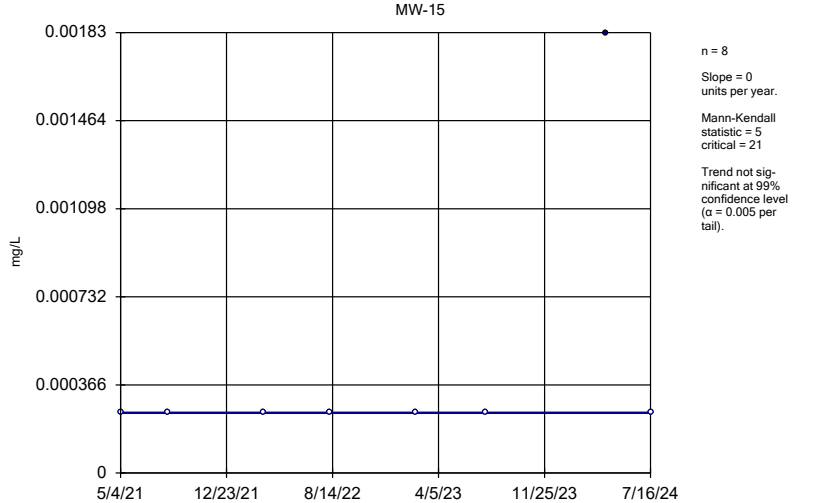
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15



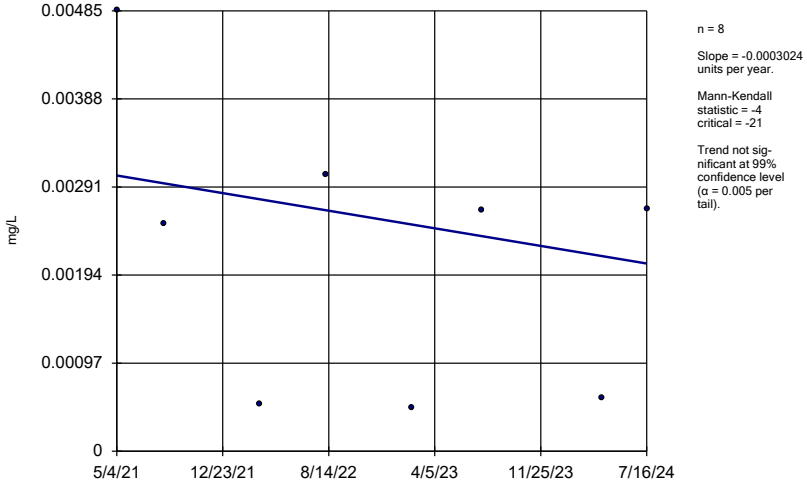
Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-18 (bg)



n = 8

Slope = -0.0003024 units per year.

Mann-Kendall statistic = -4 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

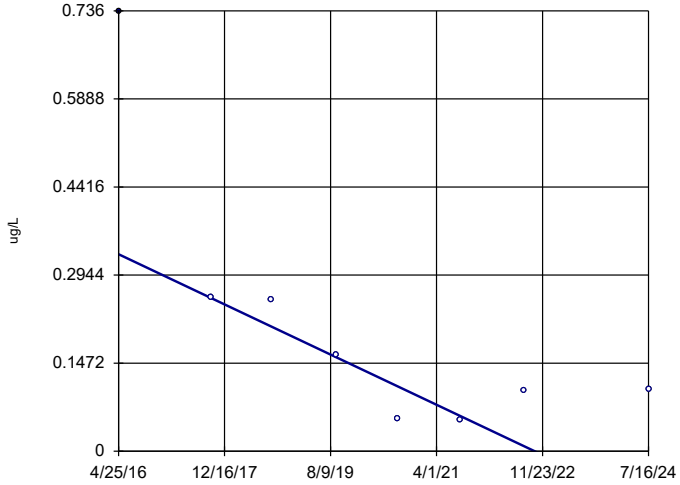
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9



n = 8

Slope = -0.05096 units per year.

Mann-Kendall statistic = -18 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluorene Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

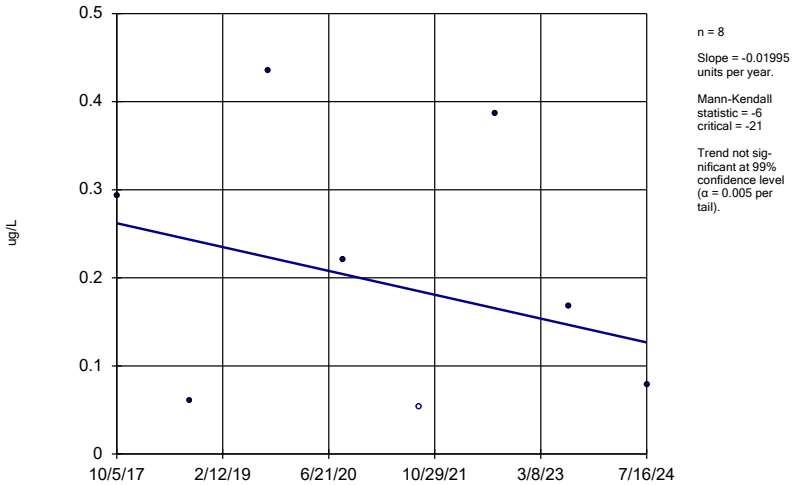
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-11



n = 8

Slope = -0.01995 units per year.

Mann-Kendall statistic = -6 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluorene Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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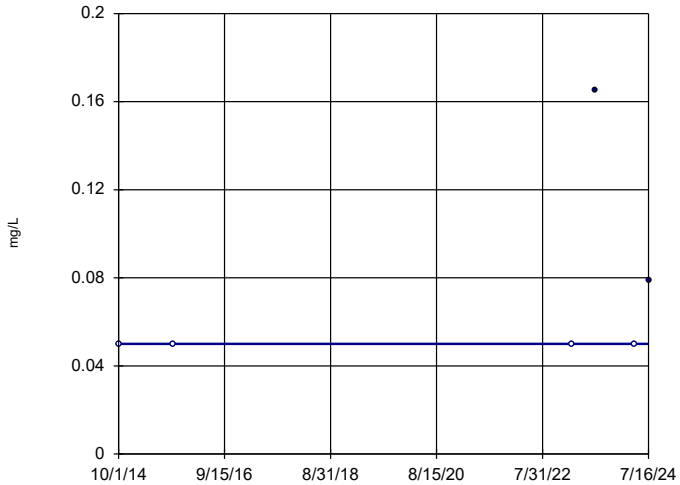
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-2 (bg)



n = 6

Slope = 0 units per year.

Mann-Kendall statistic = 5 critical = 14

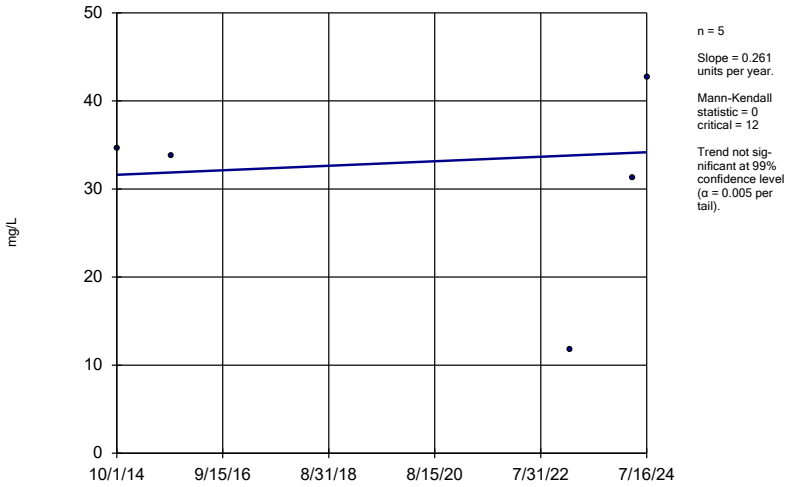
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-3

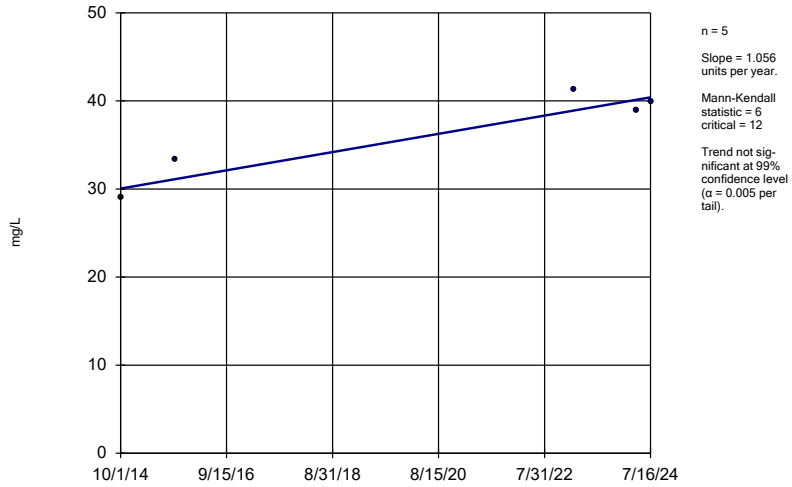


Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-5

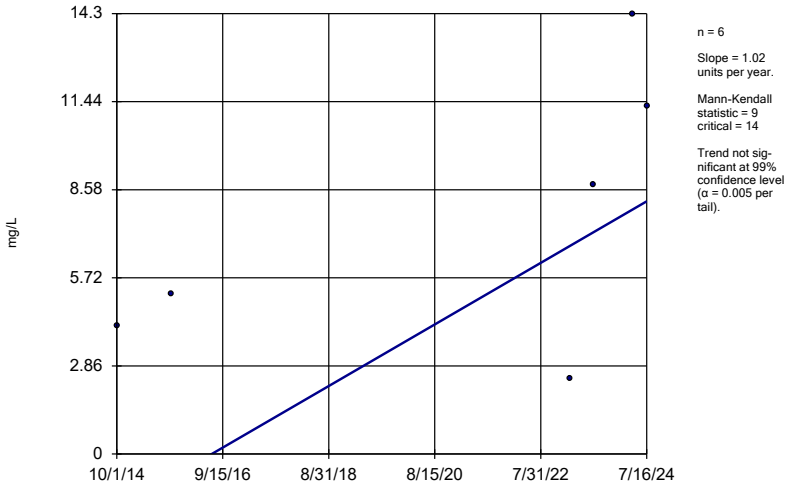


Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-6

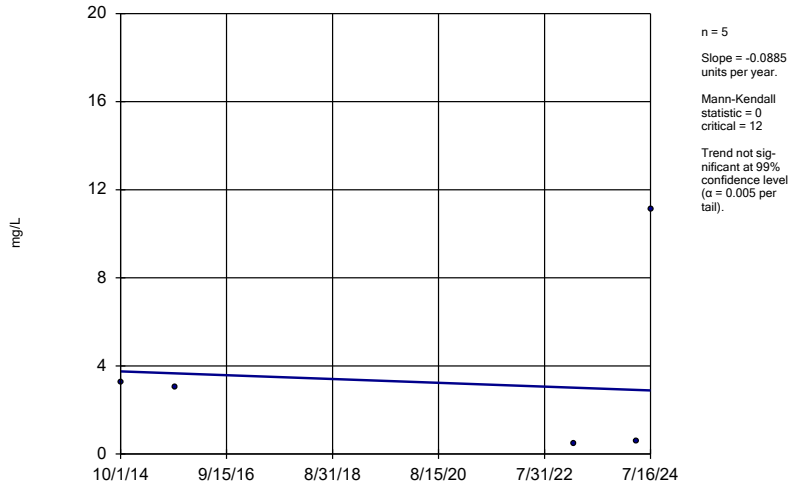


Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-7

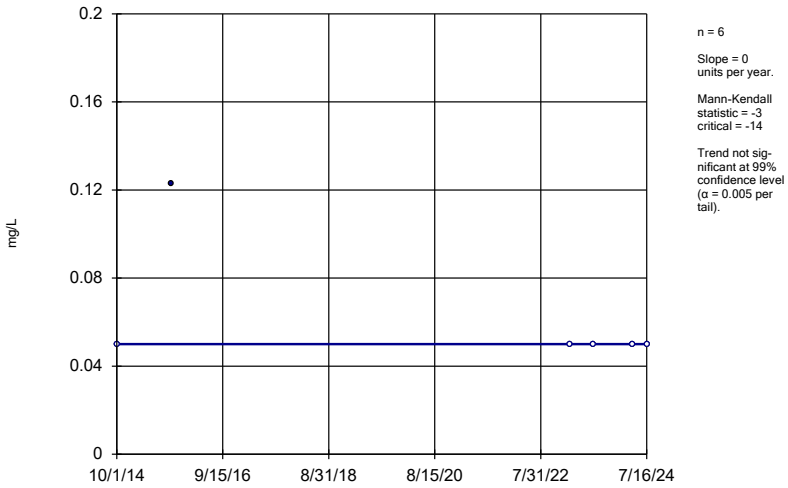


Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-8

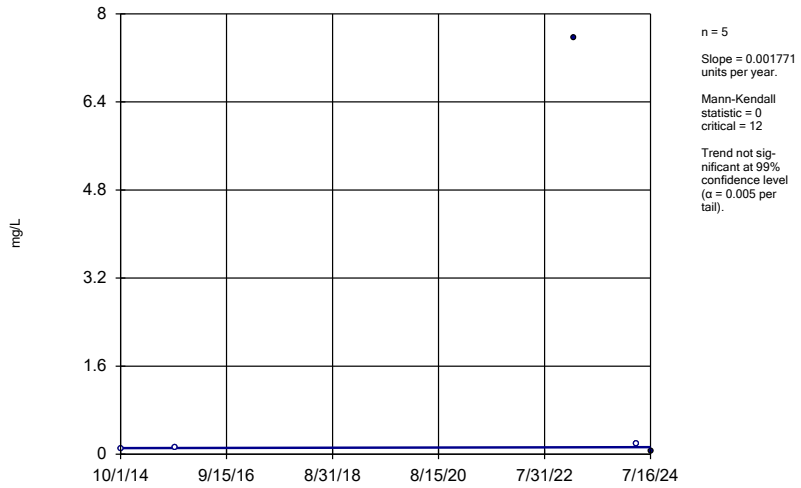


Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9

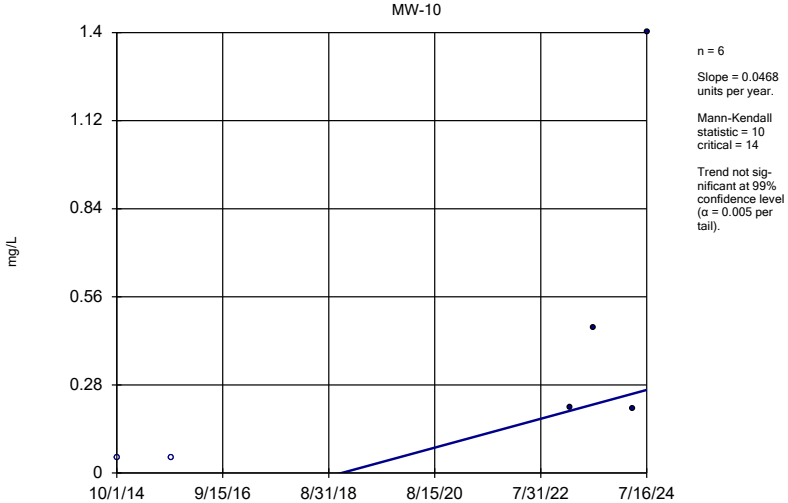


Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10

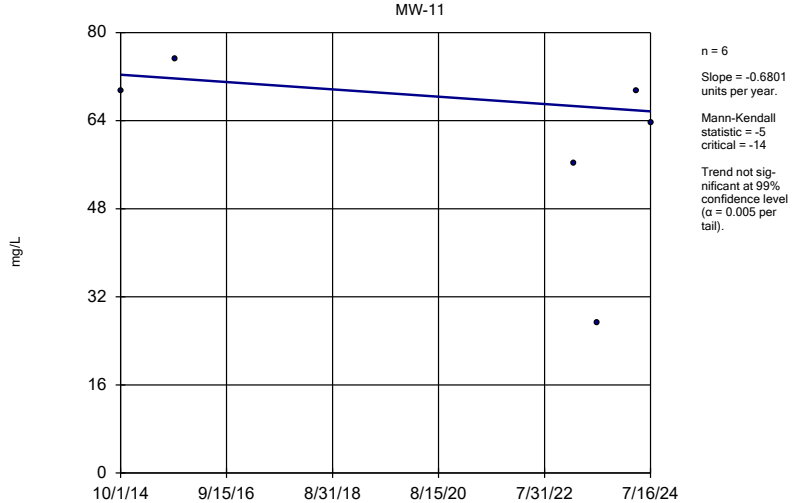


Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-11

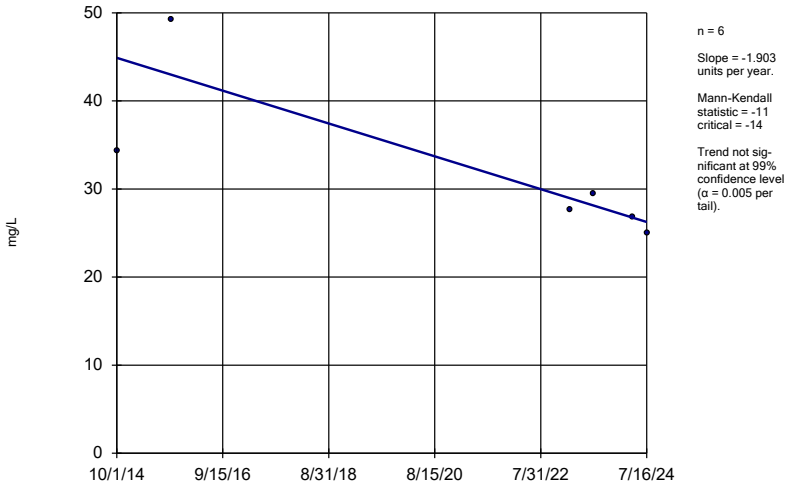


Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-12



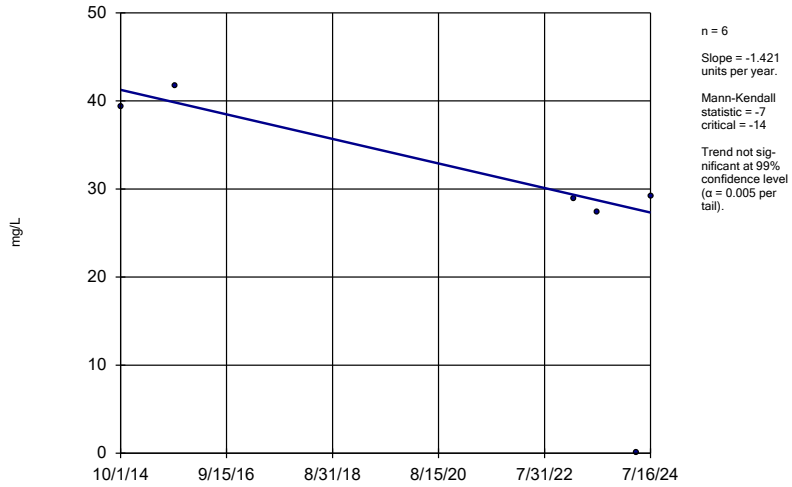
Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-13



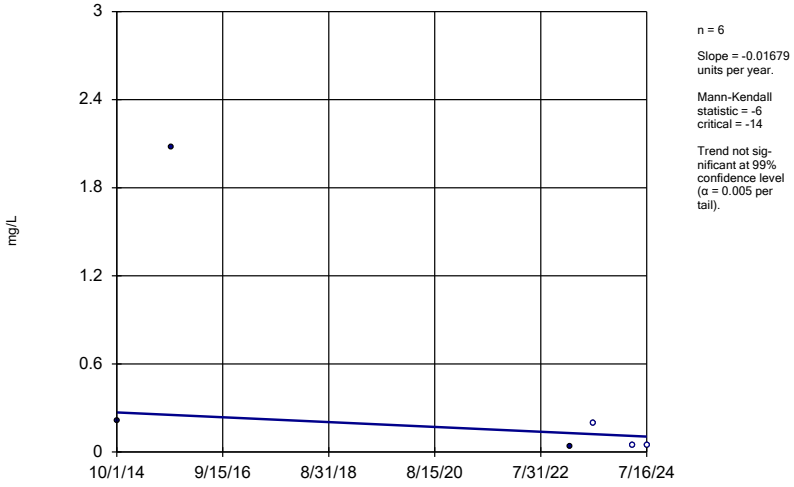
Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14



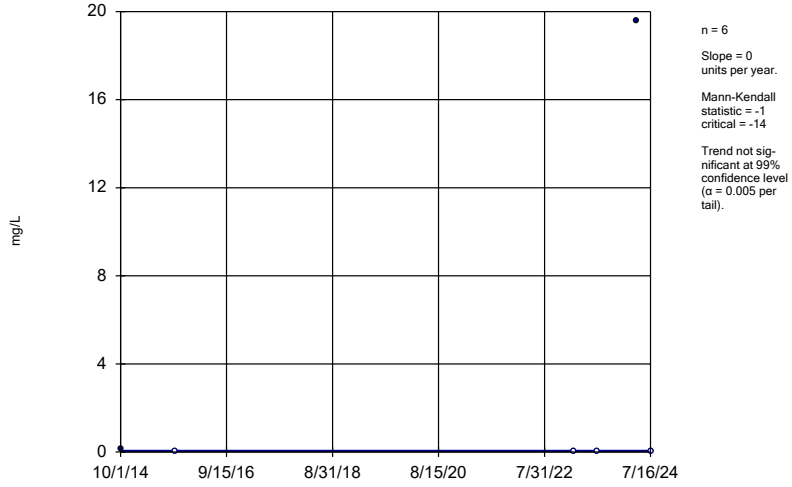
Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15

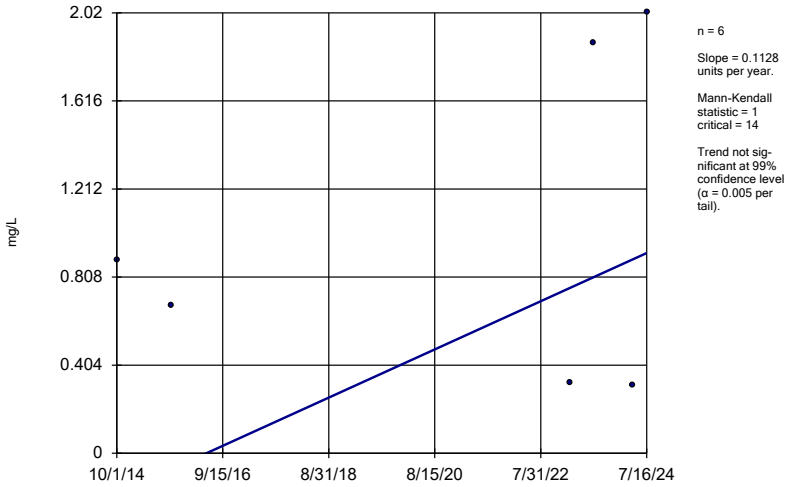


Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-18 (bg)



n = 6

Slope = 0.1128 units per year.

Mann-Kendall statistic = 1 critical = 14

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Iron Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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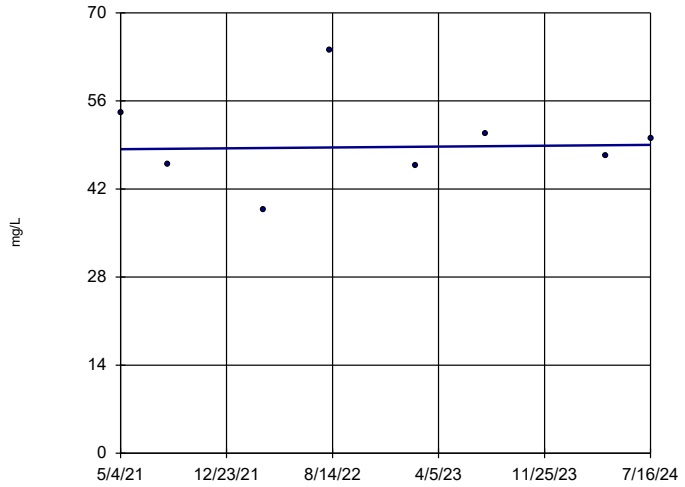
Sen's Slope Estimator

MW-1 (bg)



n = 8

Slope = 0.2122 units per year.

Mann-Kendall statistic = 0 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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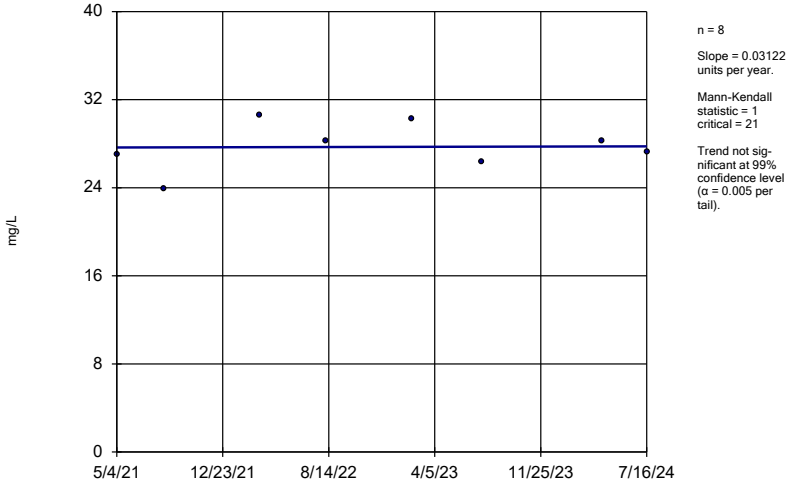
Sen's Slope Estimator

MW-2 (bg)



n = 8

Slope = 0.03122 units per year.

Mann-Kendall statistic = 1 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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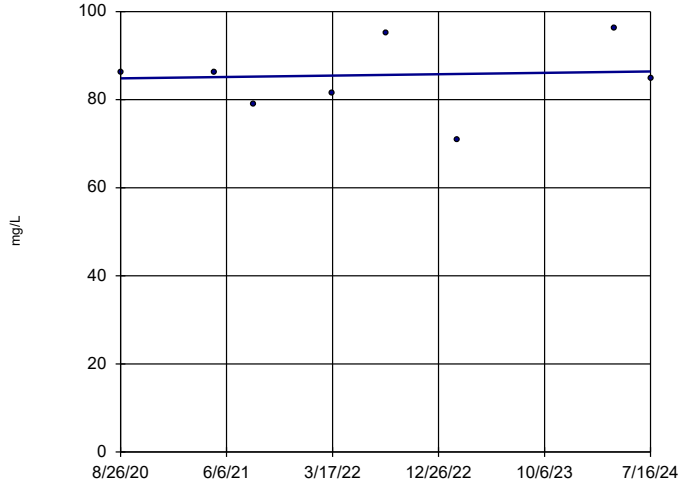
Sen's Slope Estimator

MW-3



n = 8

Slope = 0.4023 units per year.

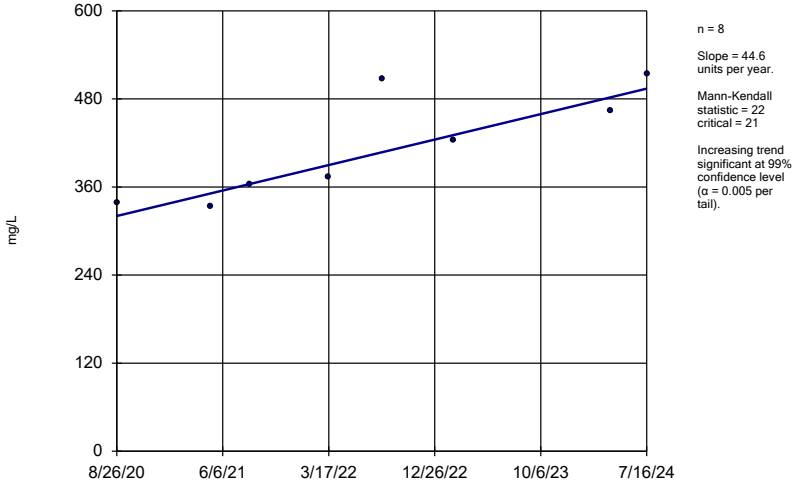
Mann-Kendall statistic = 2 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-5



n = 8

Slope = 44.6 units per year.

Mann-Kendall statistic = 22 critical = 21

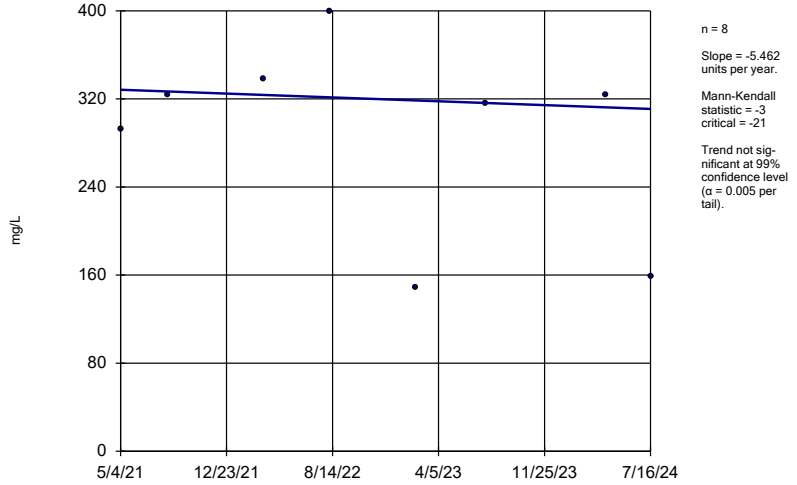
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-6



n = 8

Slope = -5.462 units per year.

Mann-Kendall statistic = -3 critical = -21

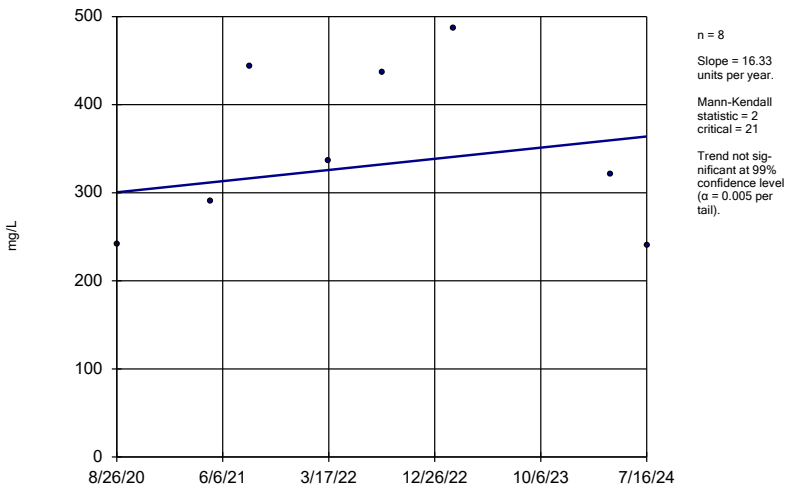
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-7



n = 8

Slope = 16.33 units per year.

Mann-Kendall statistic = 2 critical = 21

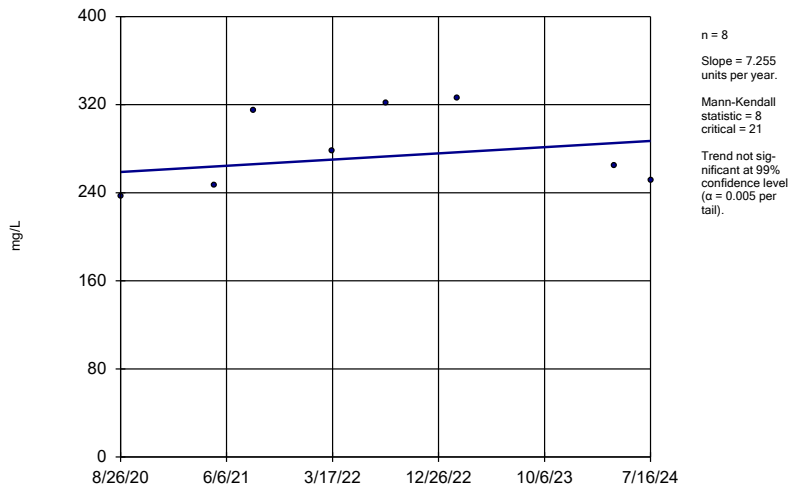
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9



n = 8

Slope = 7.255 units per year.

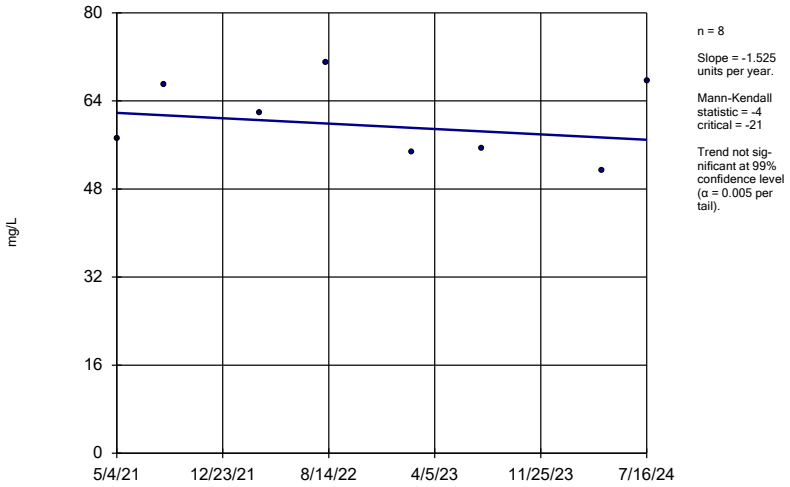
Mann-Kendall statistic = 8 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-10

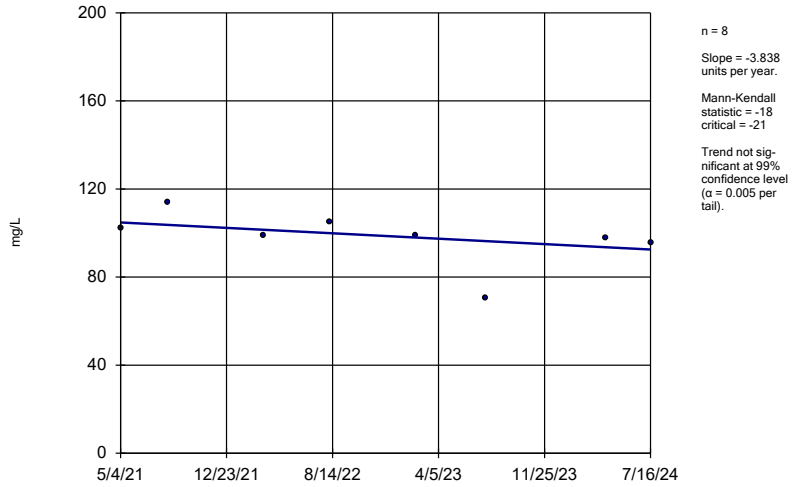


Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-11



Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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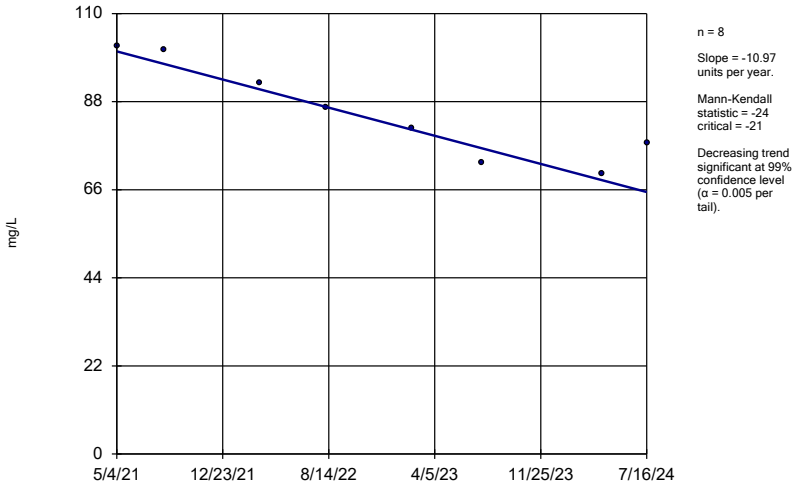
Sen's Slope Estimator

MW-12

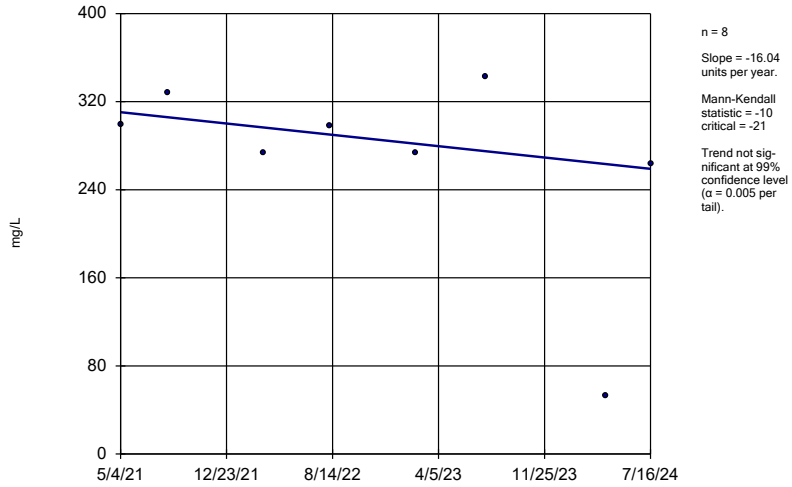


Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

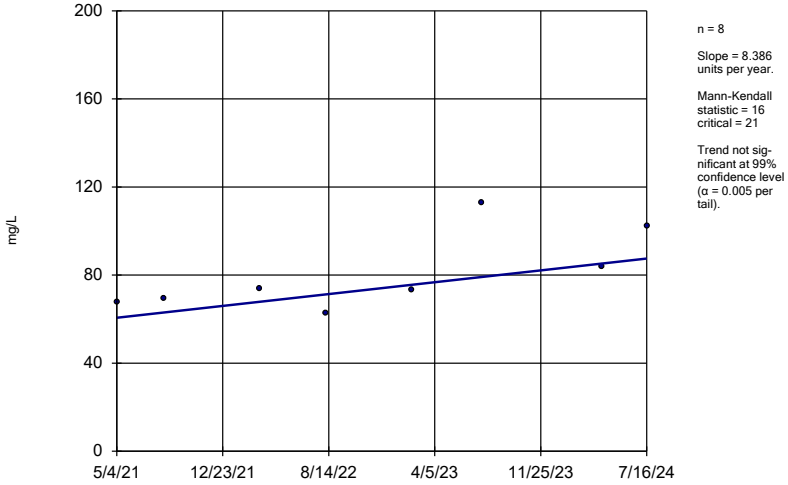
MW-13



Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-14

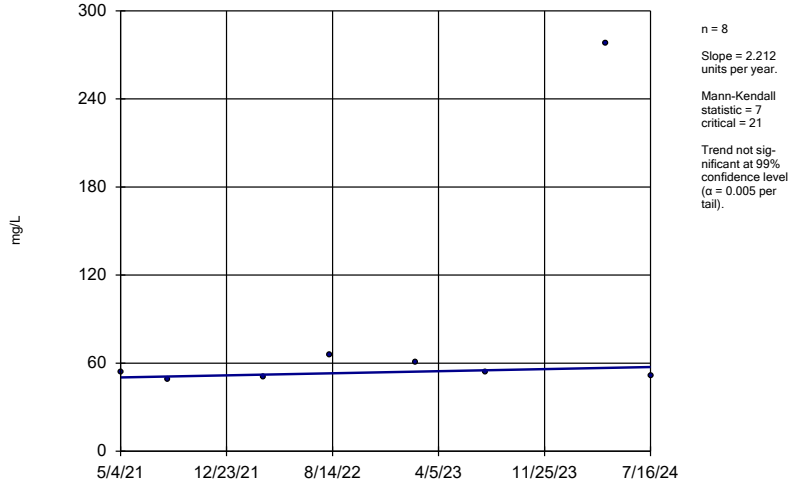


Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-15

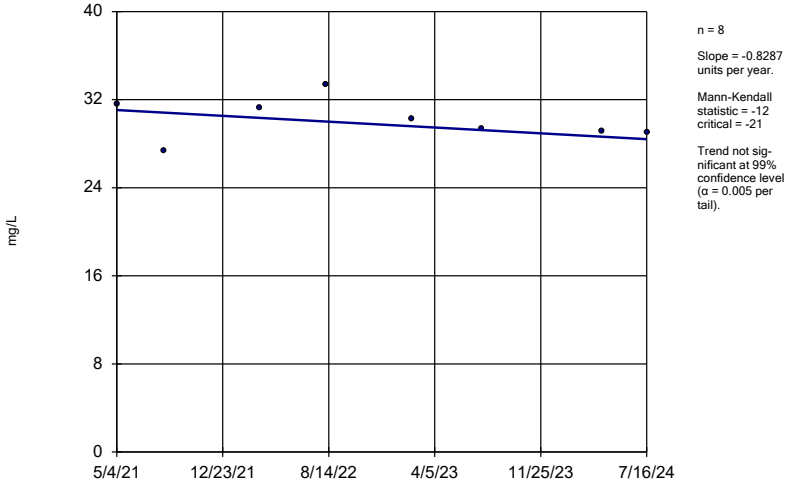


Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-17 (bg)

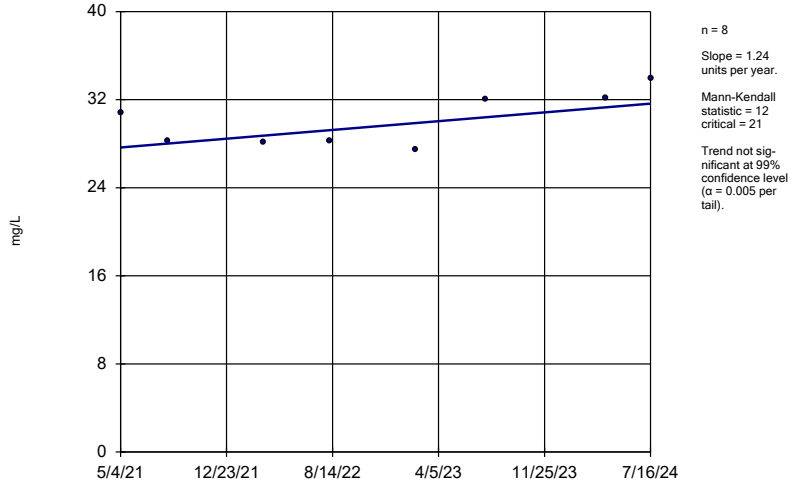


Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

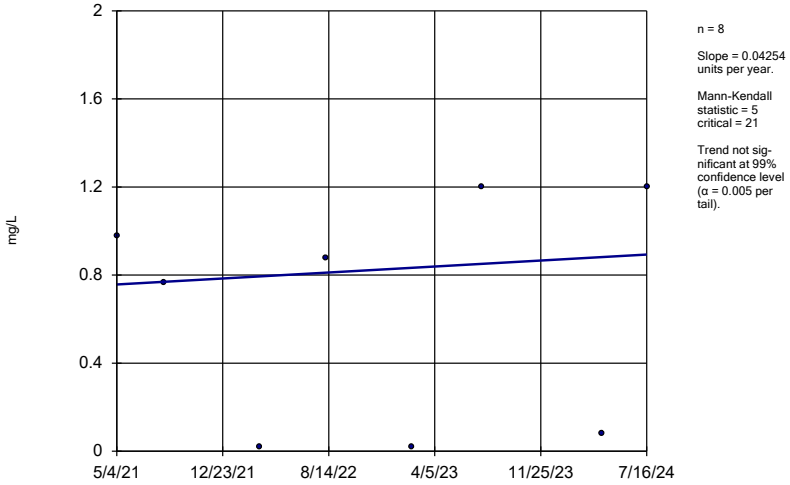
MW-18 (bg)



Constituent: Magnesium Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-2 (bg)



n = 8

Slope = 0.04254 units per year.

Mann-Kendall statistic = 5
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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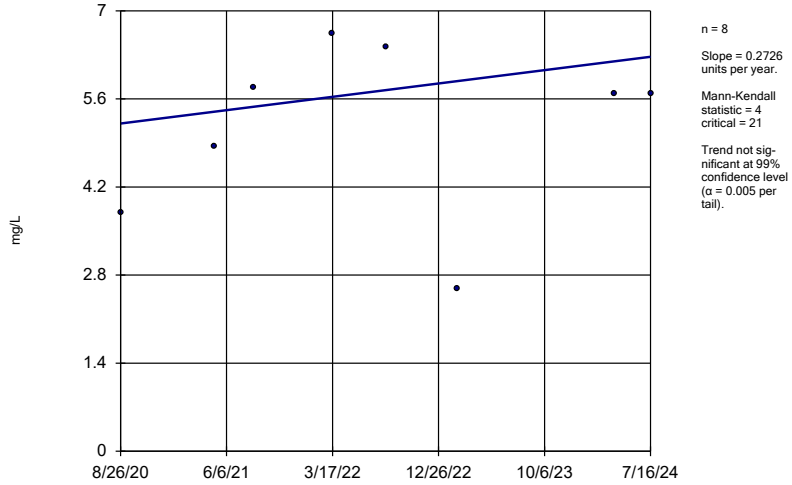
Sen's Slope Estimator

MW-3



n = 8

Slope = 0.2726 units per year.

Mann-Kendall statistic = 4
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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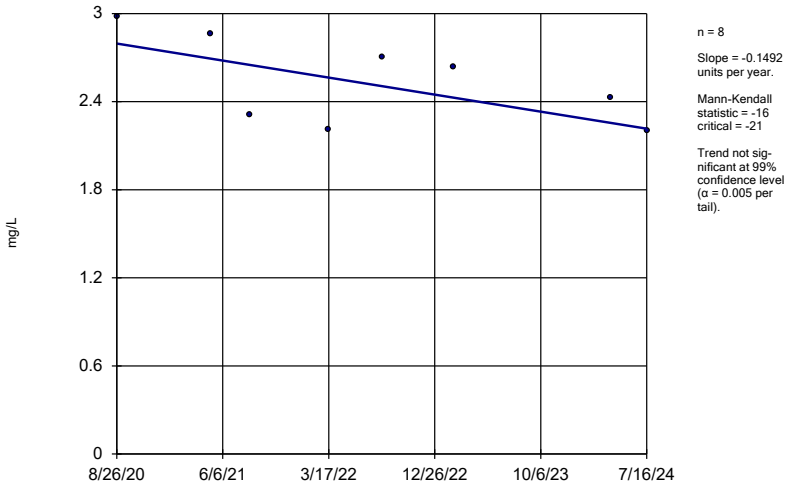
Sen's Slope Estimator

MW-5



n = 8

Slope = -0.1492 units per year.

Mann-Kendall statistic = -16
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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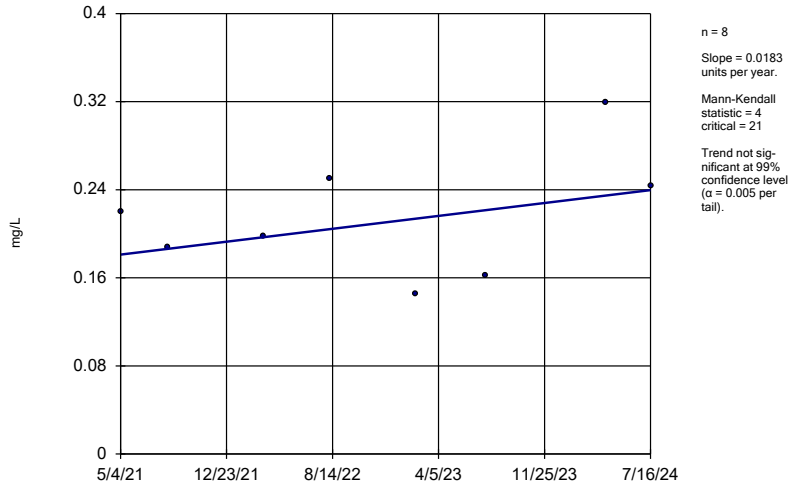
Sen's Slope Estimator

MW-6



n = 8

Slope = 0.0183 units per year.

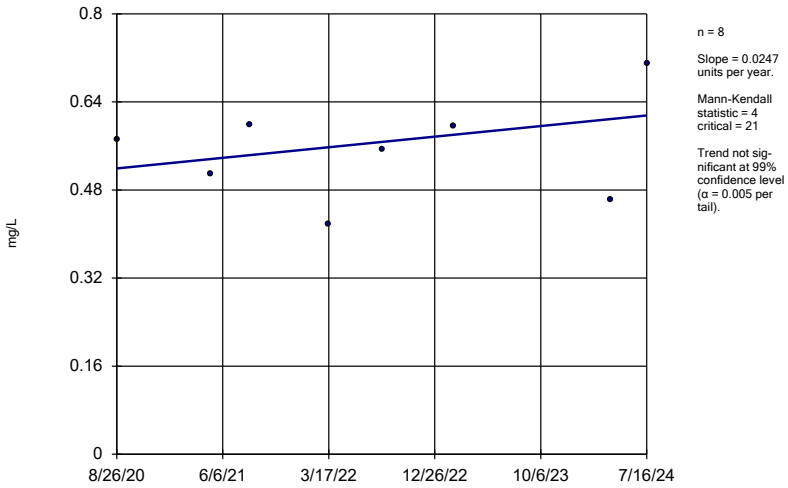
Mann-Kendall statistic = 4
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-7

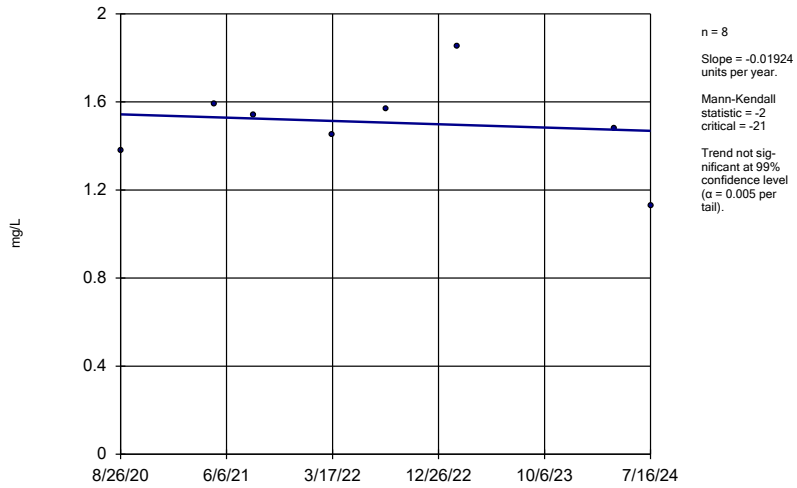


Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9

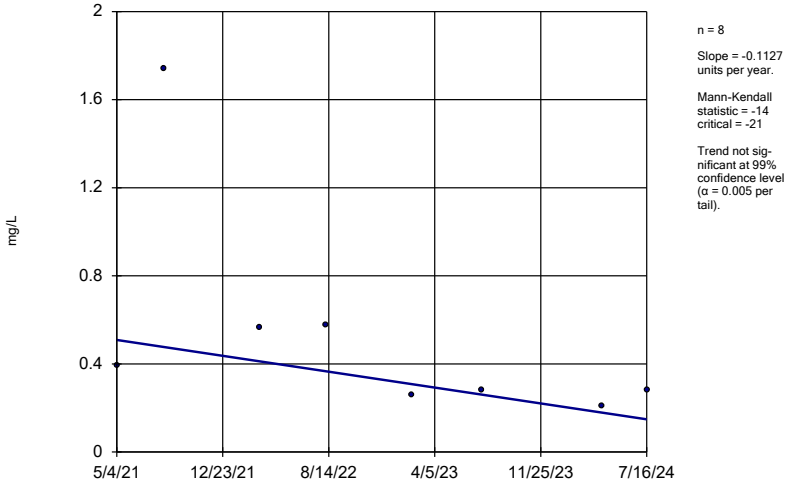


Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-10

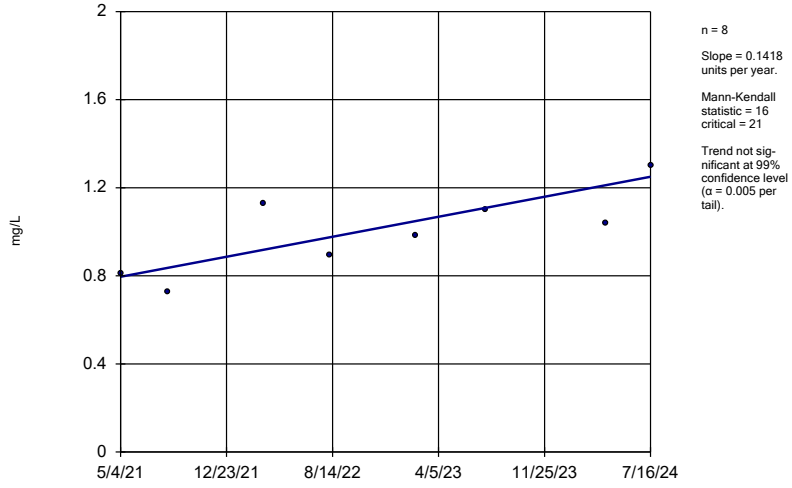


Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

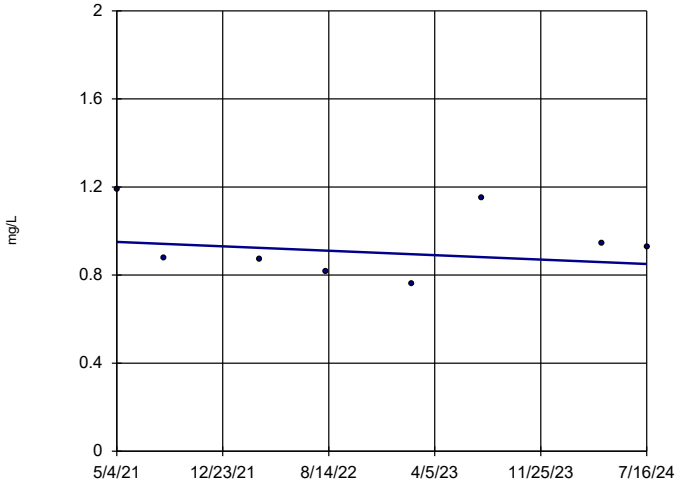
MW-11



Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-12



n = 8

Slope = -0.0314 units per year.

Mann-Kendall statistic = -4
critical = -21

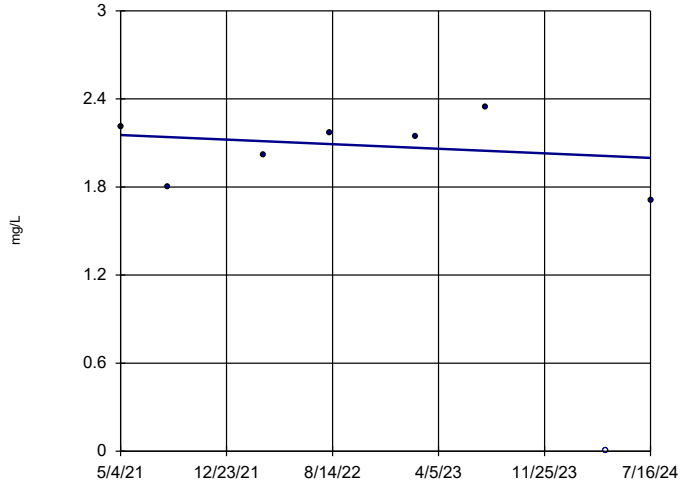
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13



n = 8

Slope = -0.04859 units per year.

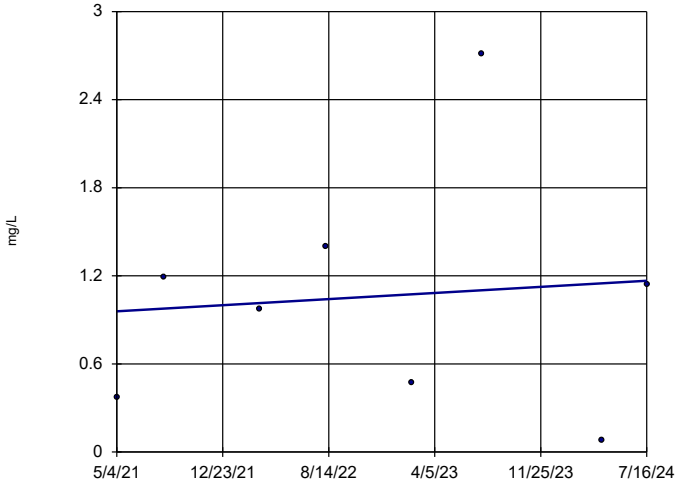
Mann-Kendall statistic = -6
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-14



n = 8

Slope = 0.06491 units per year.

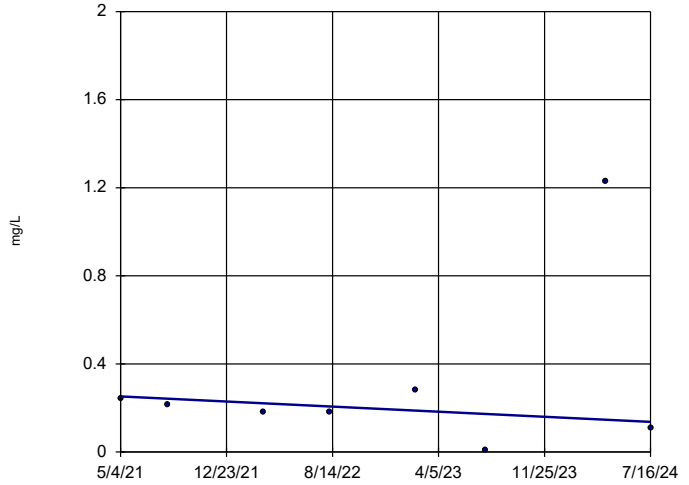
Mann-Kendall statistic = 2
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-17 (bg)



n = 8

Slope = -0.0359 units per year.

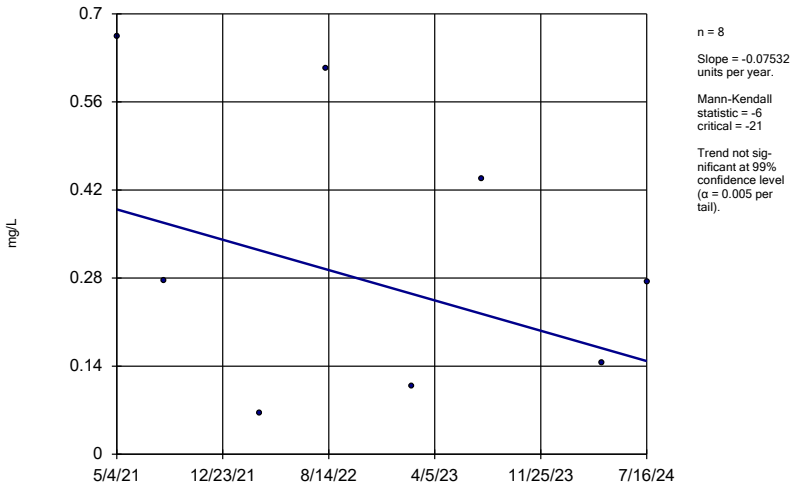
Mann-Kendall statistic = -6
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

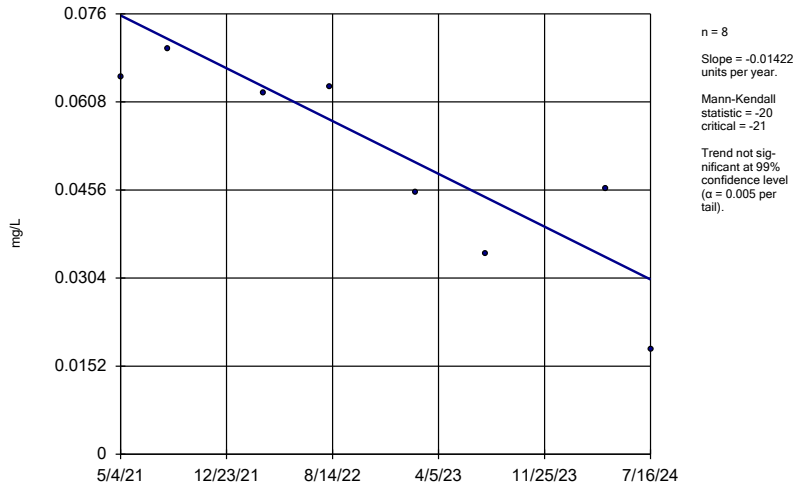
MW-18 (bg)



Constituent: Manganese Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-6

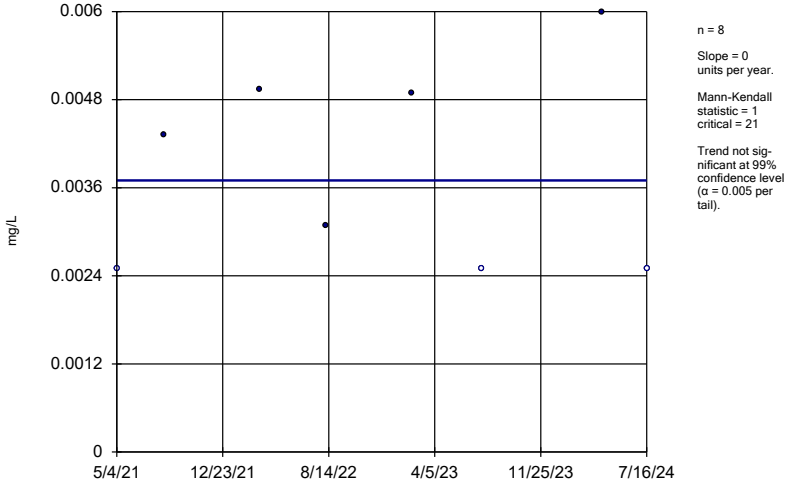


Constituent: Nickel Analysis Run 9/24/2024 9:39 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17 (bg)

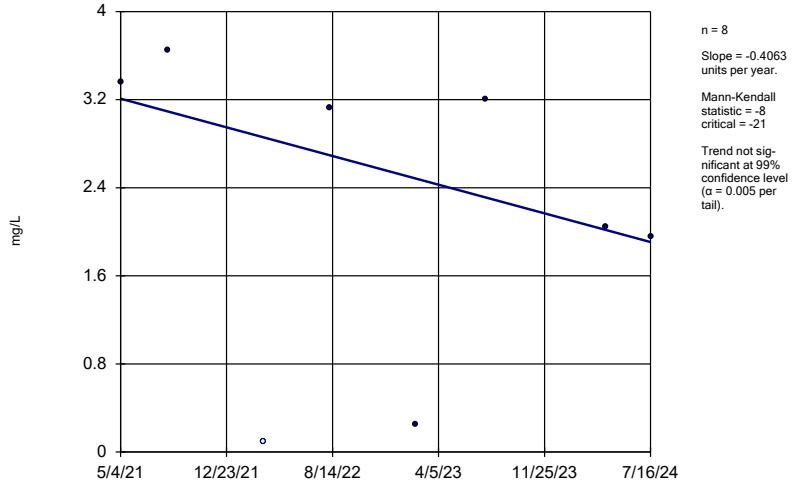


Constituent: Nickel Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

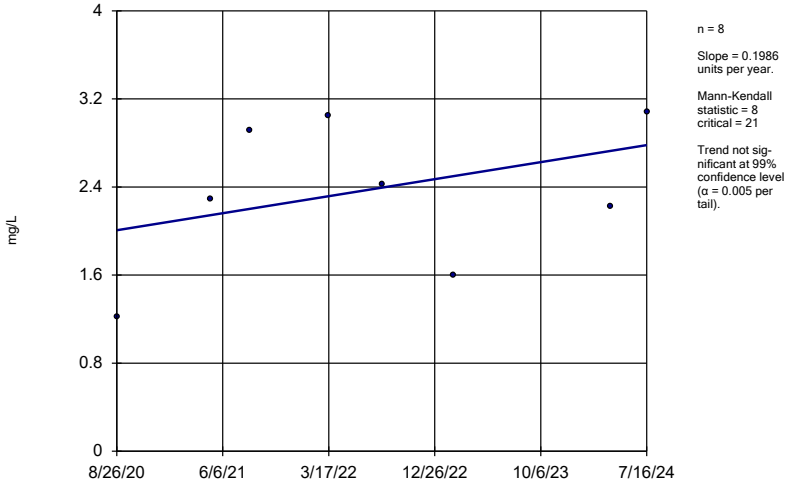
MW-2 (bg)



Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-3

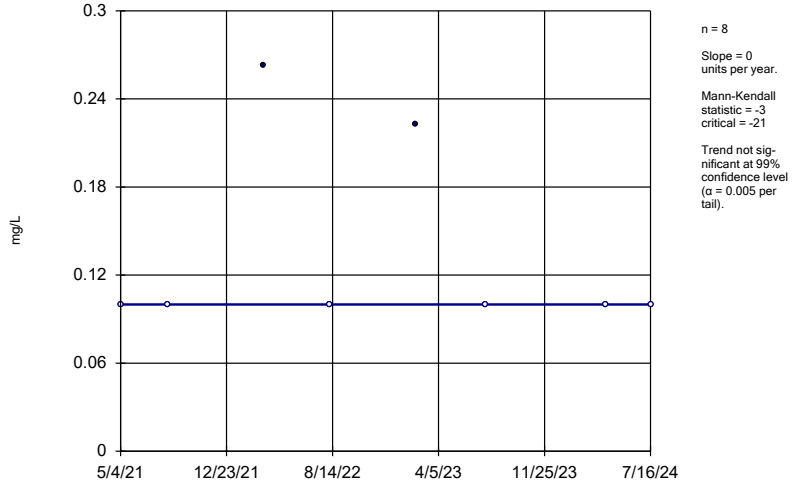


Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

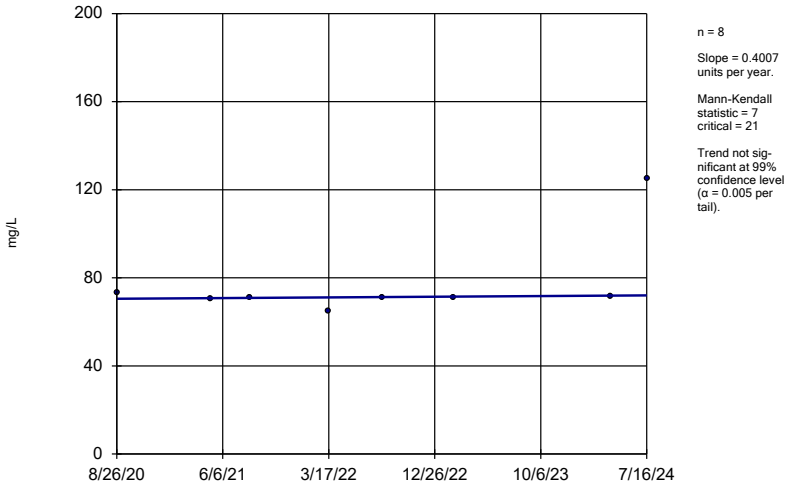
MW-4



Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

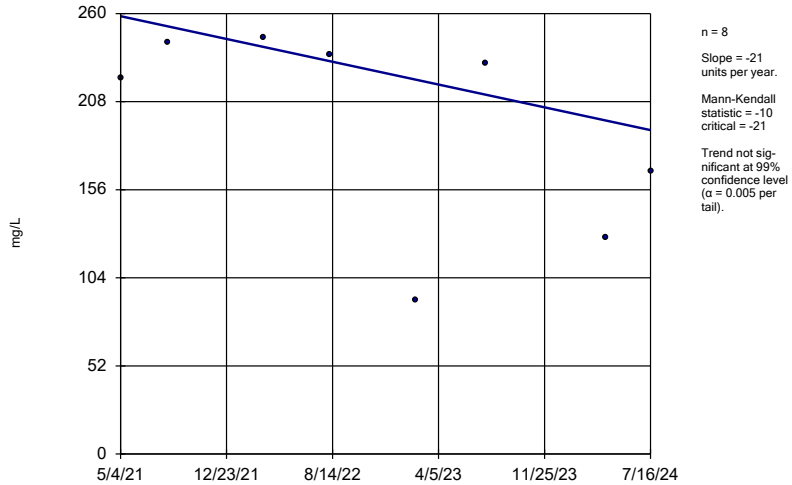
MW-5



Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

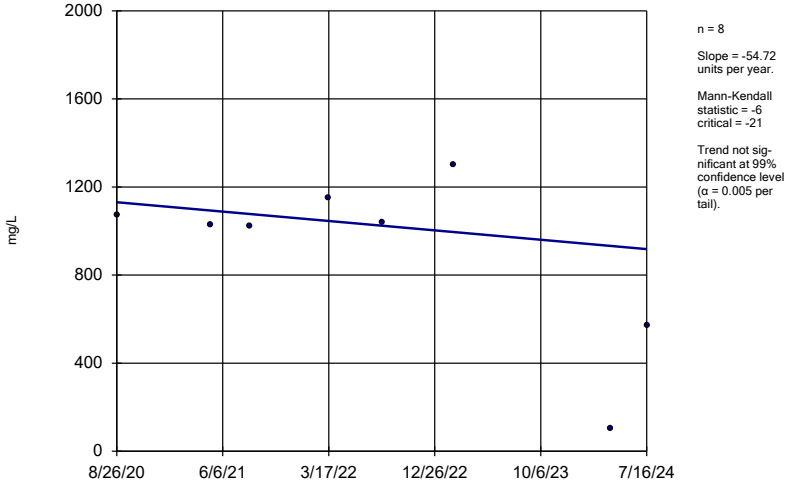
MW-6



Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-7

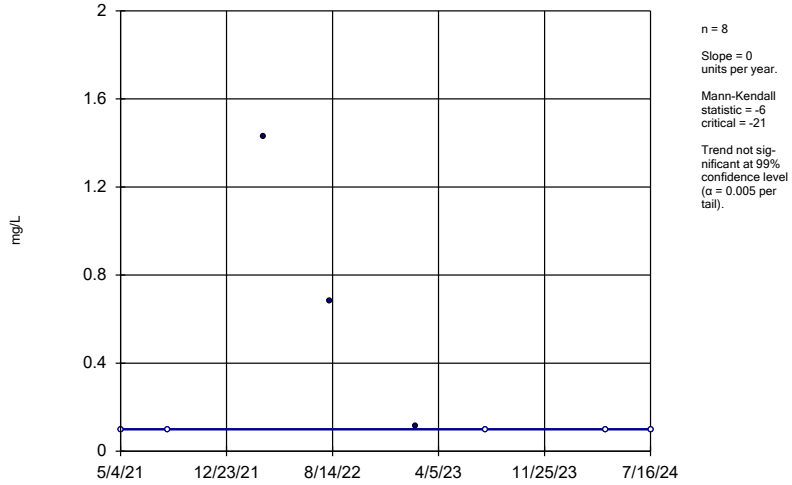


Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

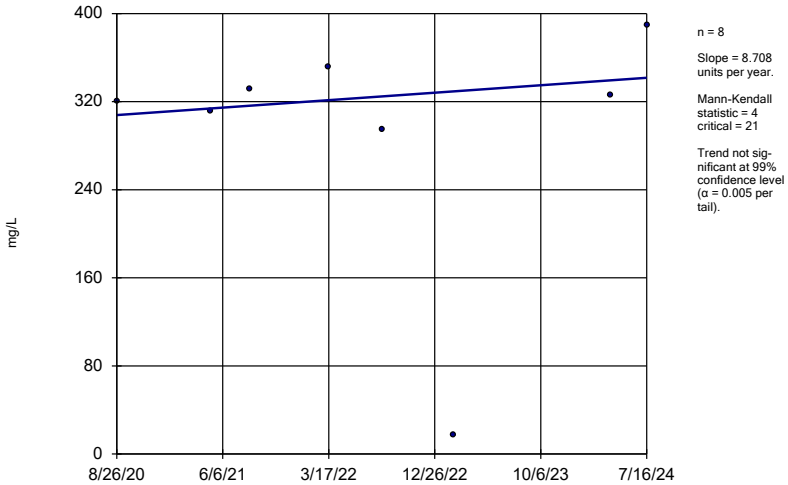
MW-8



Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-9

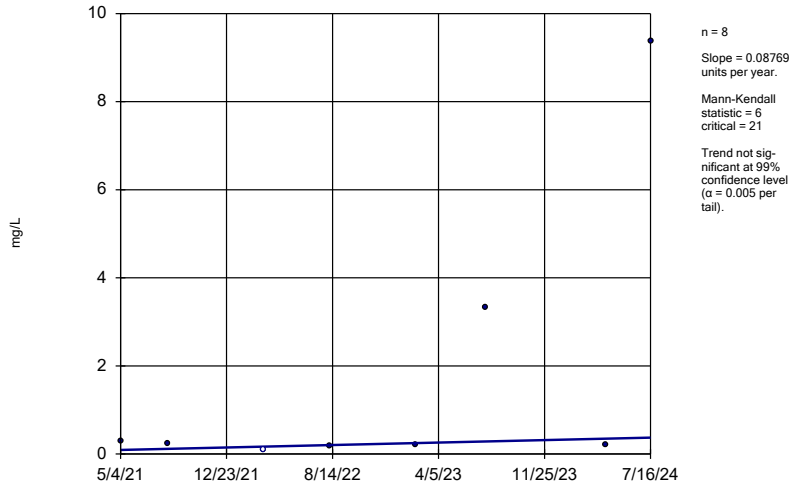


Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

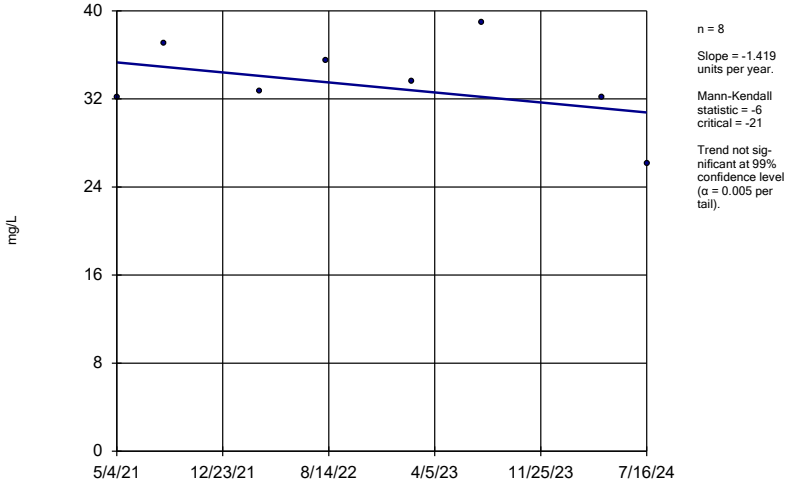
MW-10



Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-11



Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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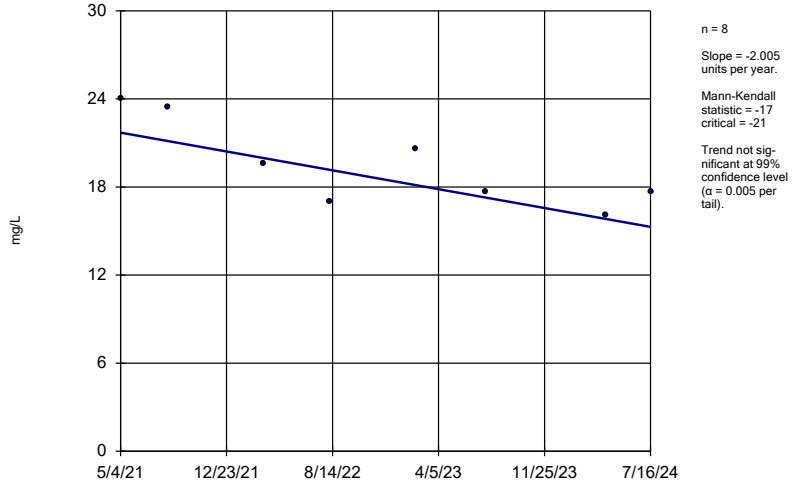
Sen's Slope Estimator

MW-12

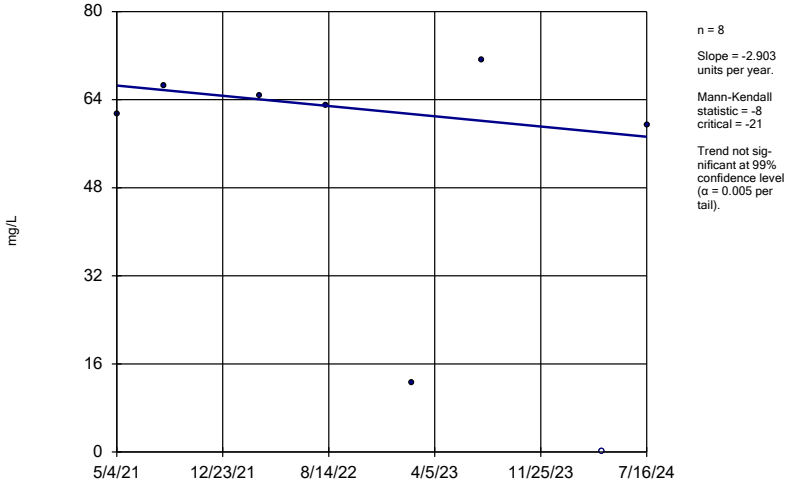


Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13

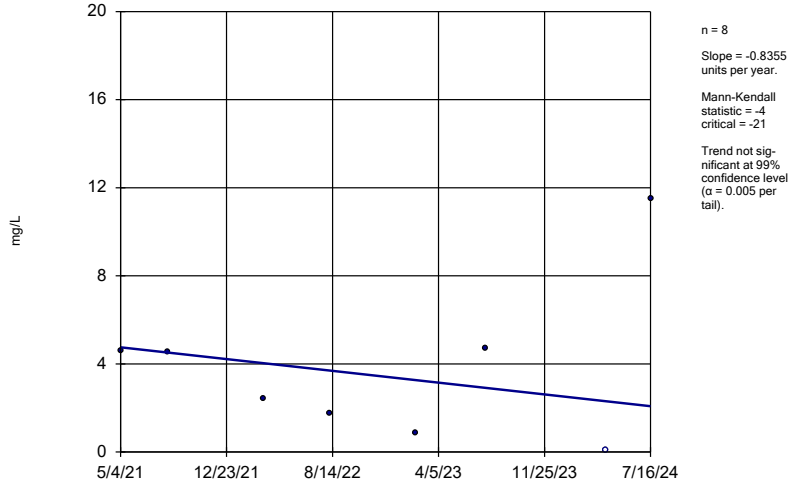


Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14

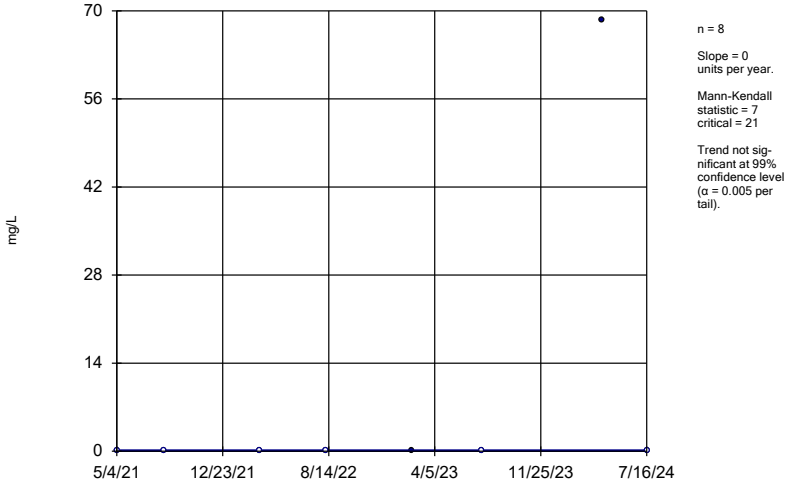


Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15

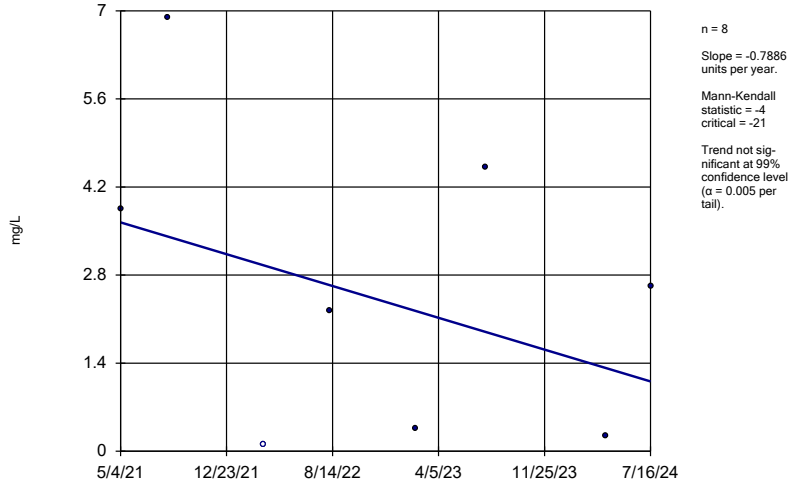


Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18 (bg)

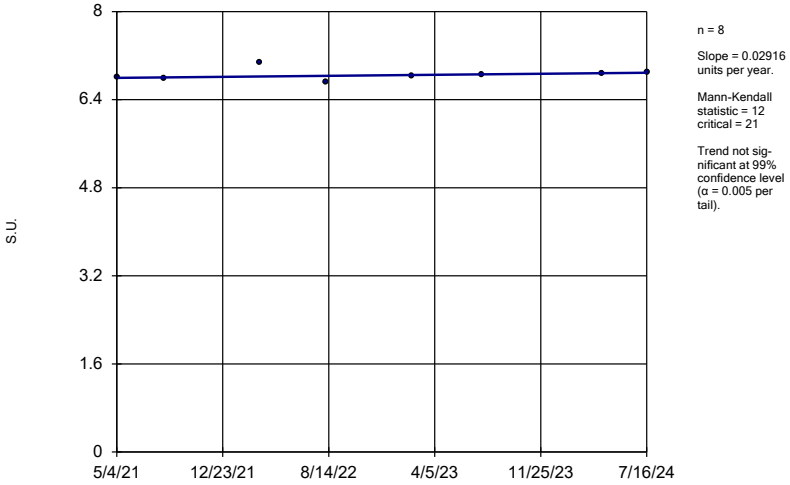


Constituent: Nitrogen, Ammonia Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-1 (bg)



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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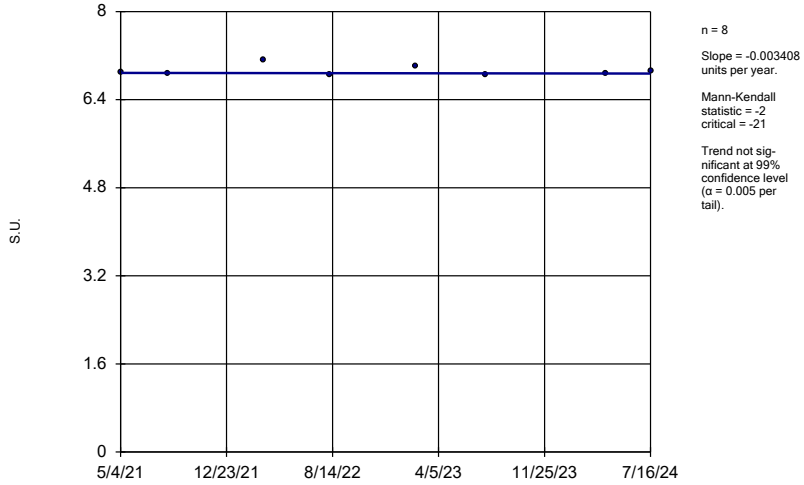
Sen's Slope Estimator

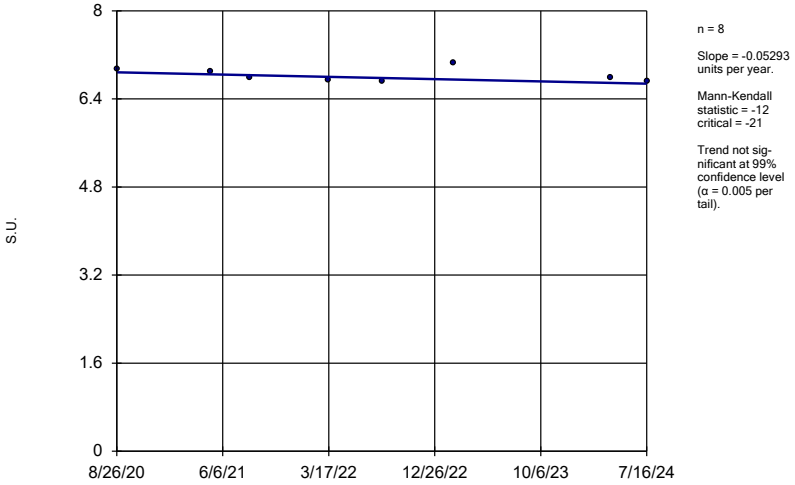
MW-2 (bg)



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-3

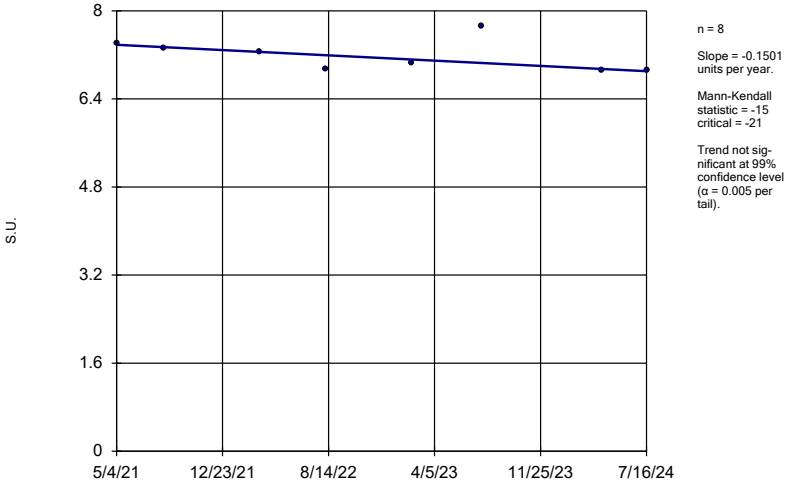


Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-4

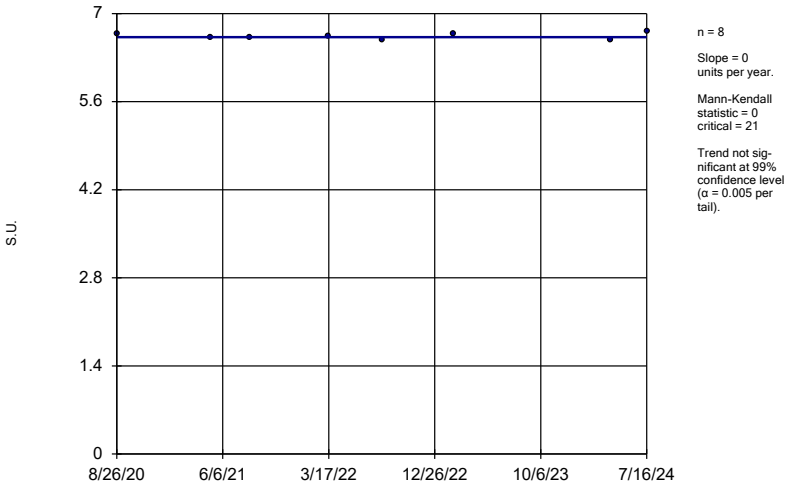


Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-5



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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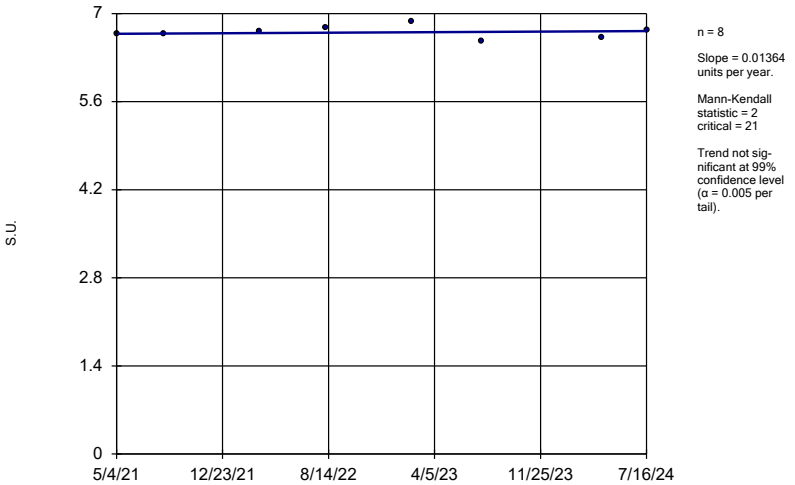
Sen's Slope Estimator

MW-6



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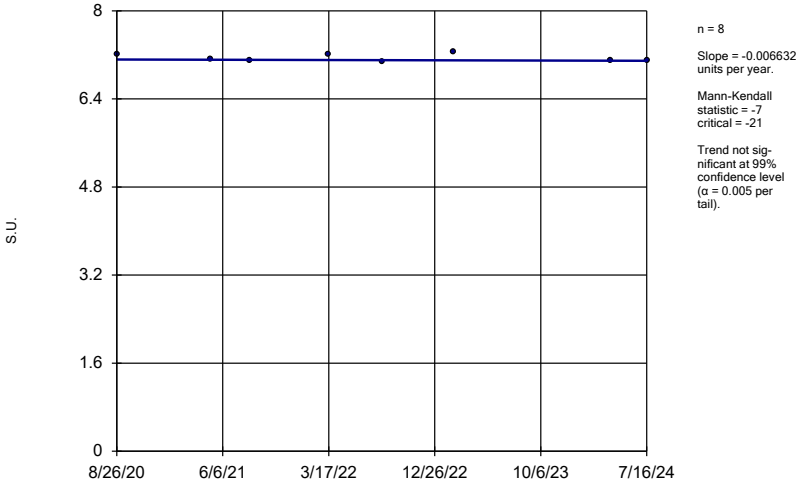
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-7



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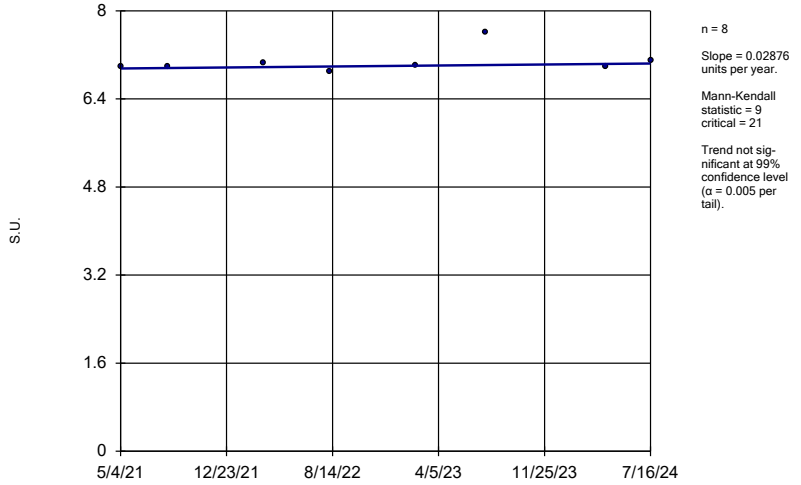
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-8



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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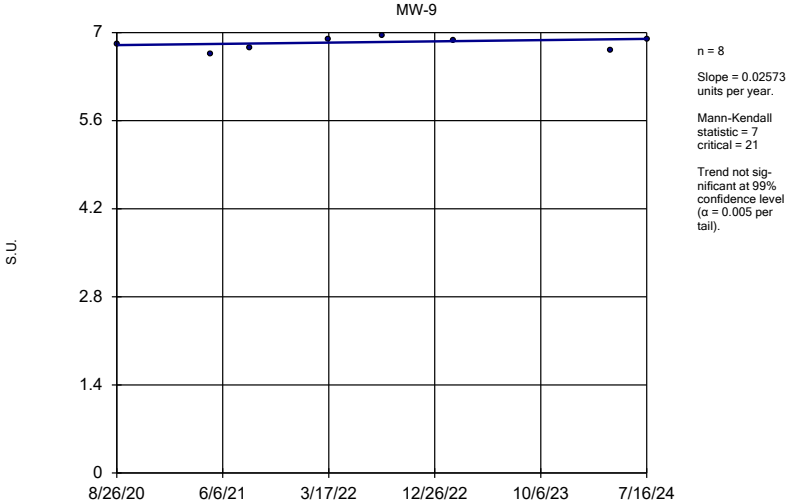
Sen's Slope Estimator

MW-9



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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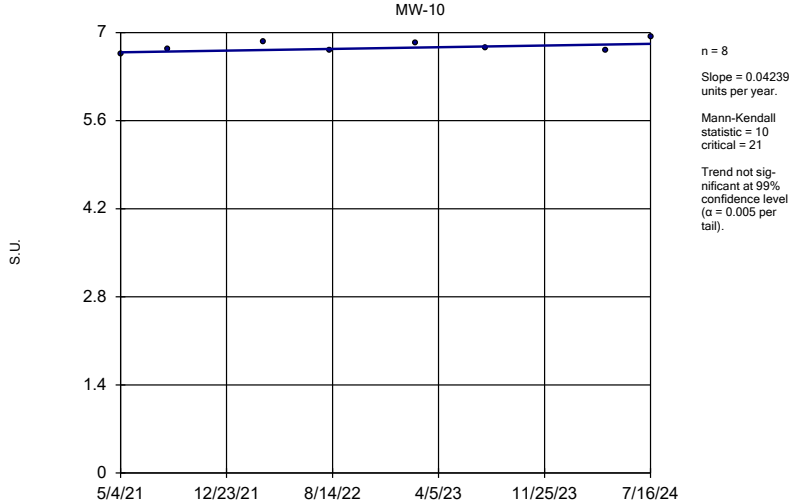
Sen's Slope Estimator

MW-10



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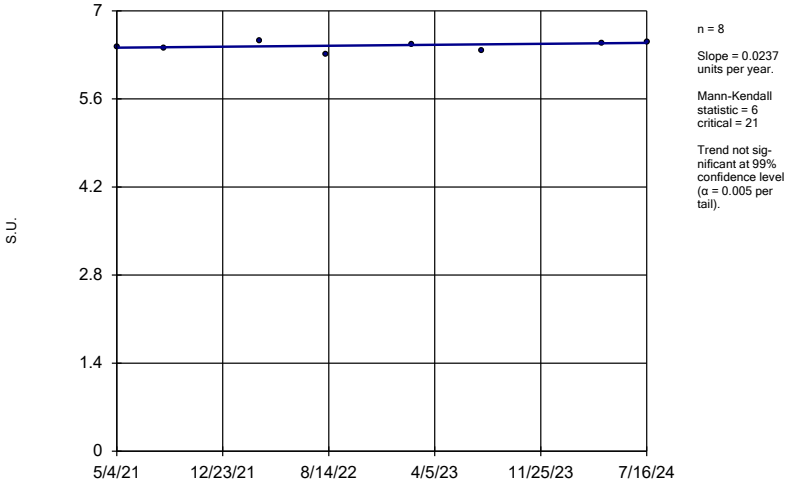
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-11



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Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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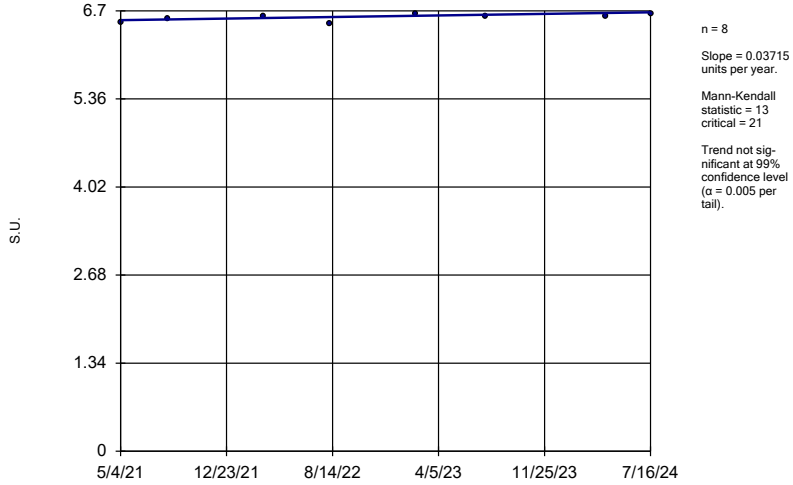
Sen's Slope Estimator

MW-12



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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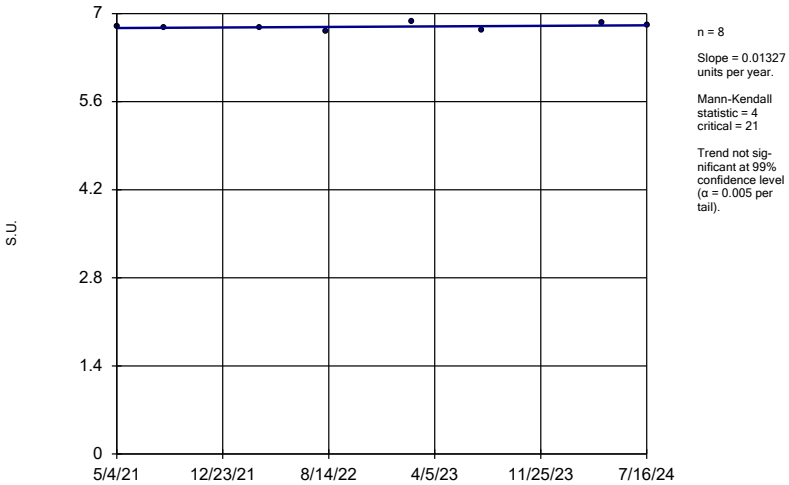
Sen's Slope Estimator

MW-13



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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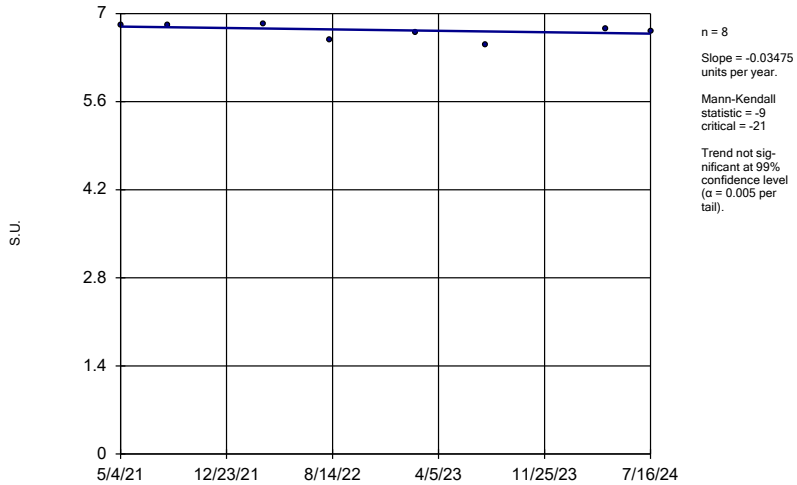
Sen's Slope Estimator

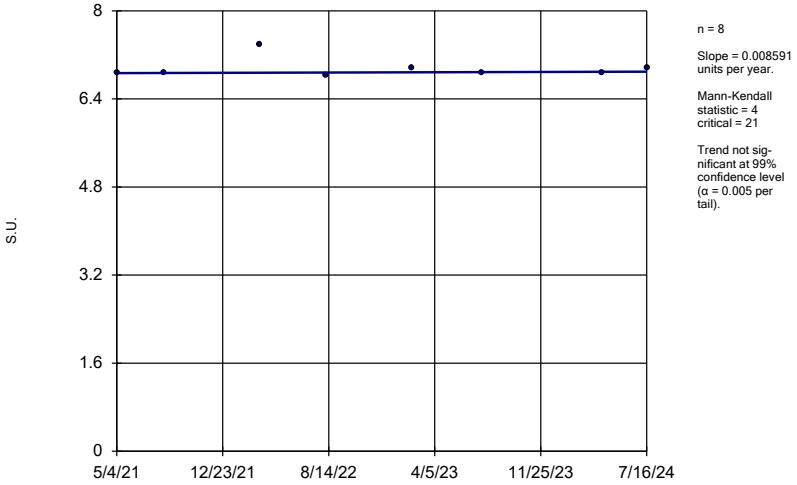
MW-14



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-15



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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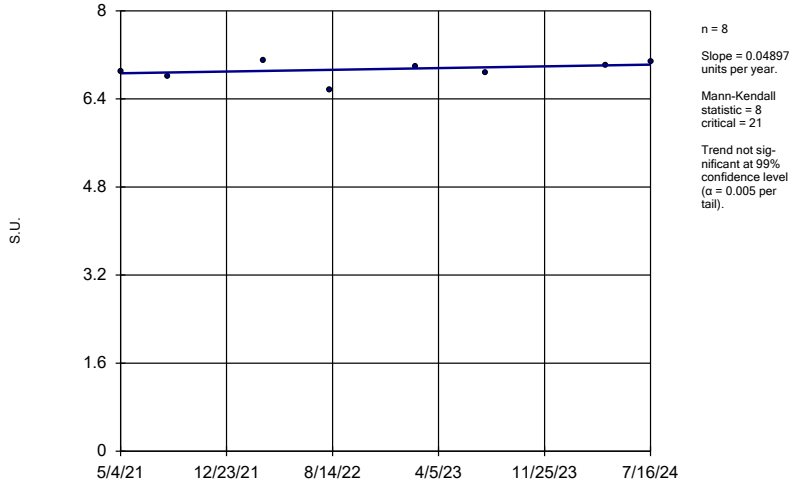
Sen's Slope Estimator

MW-16



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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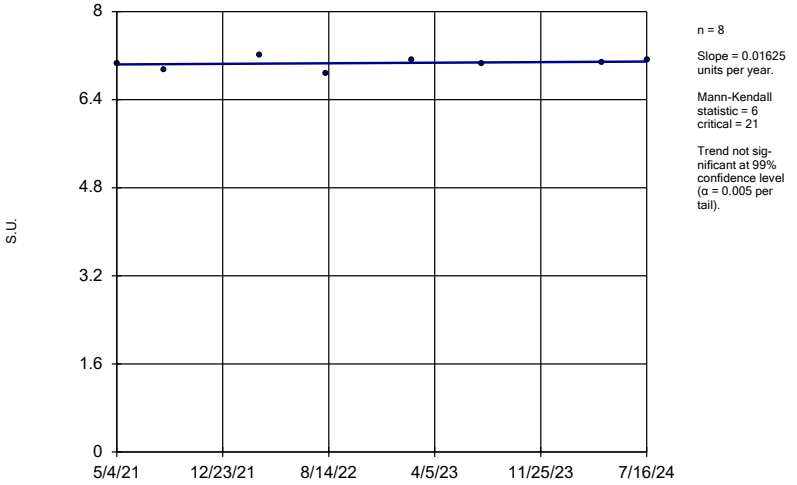
Sen's Slope Estimator

MW-17 (bg)



Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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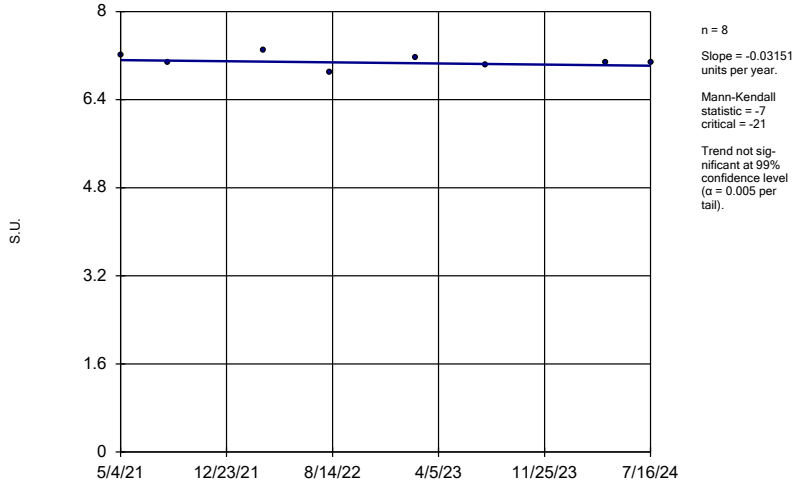
Sen's Slope Estimator

MW-18 (bg)

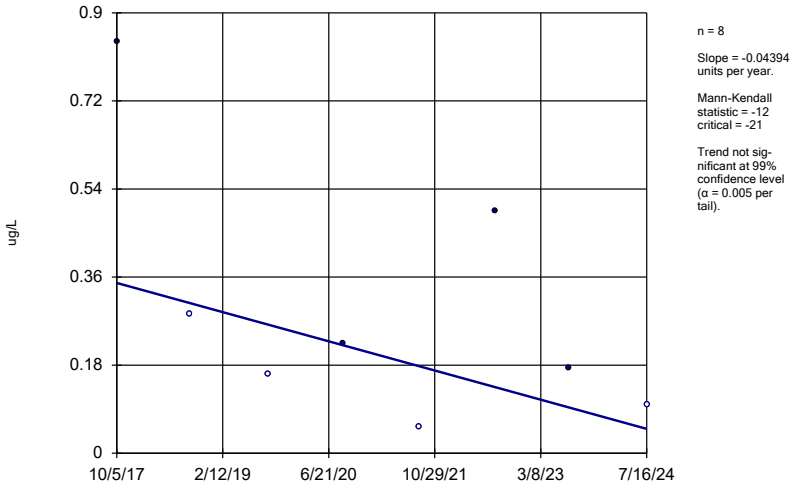


Constituent: pH Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

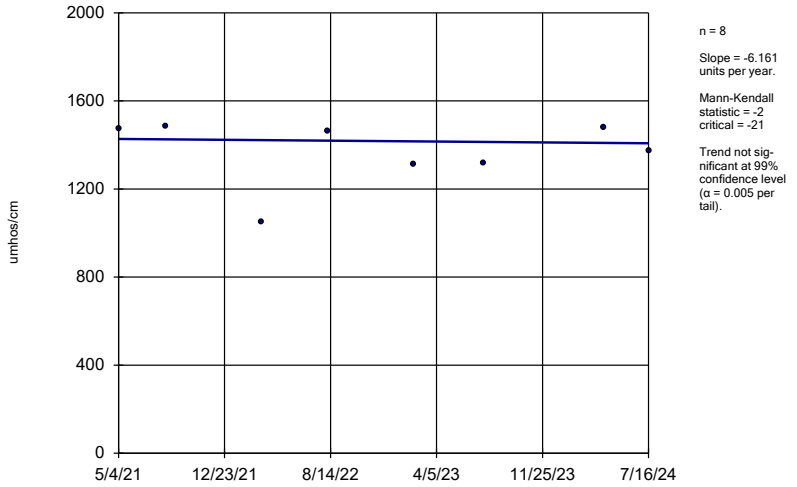
MW-11



Constituent: Phenanthrene Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

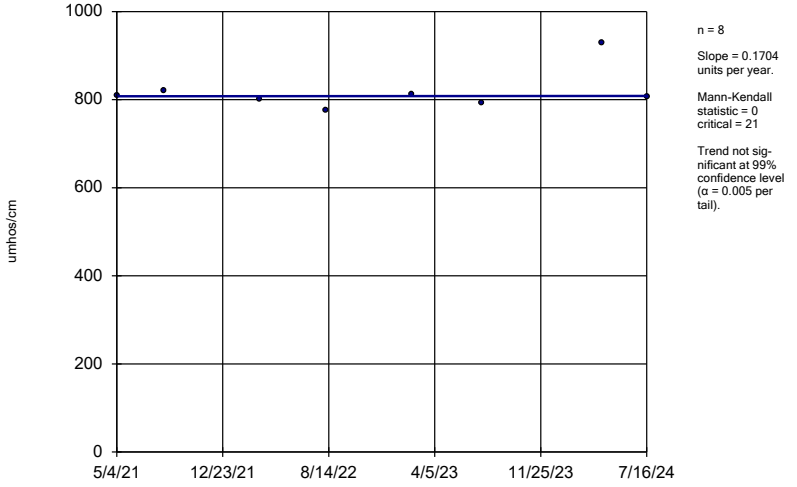
MW-1 (bg)



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

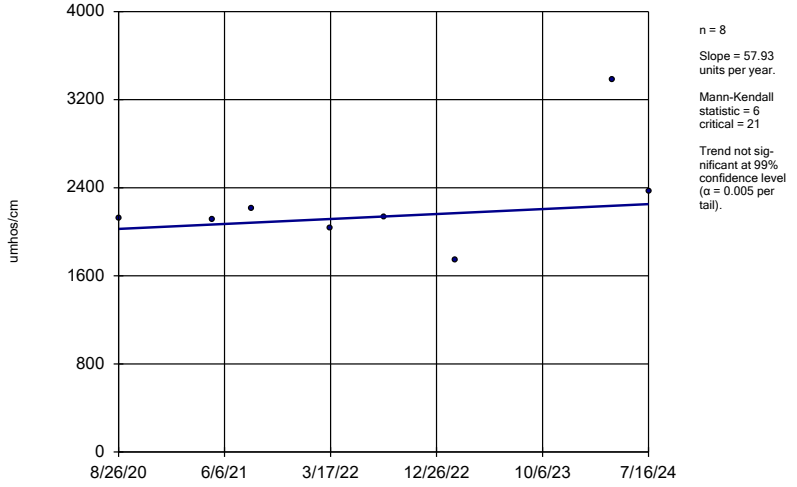
MW-2 (bg)



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

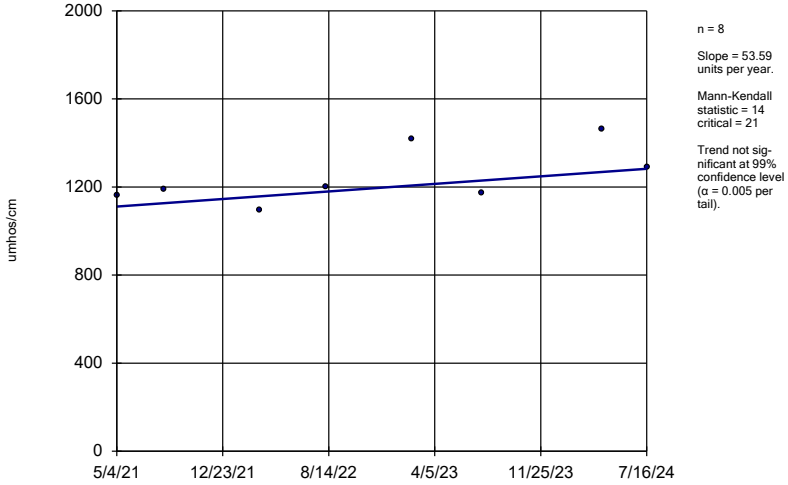
MW-3



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-4



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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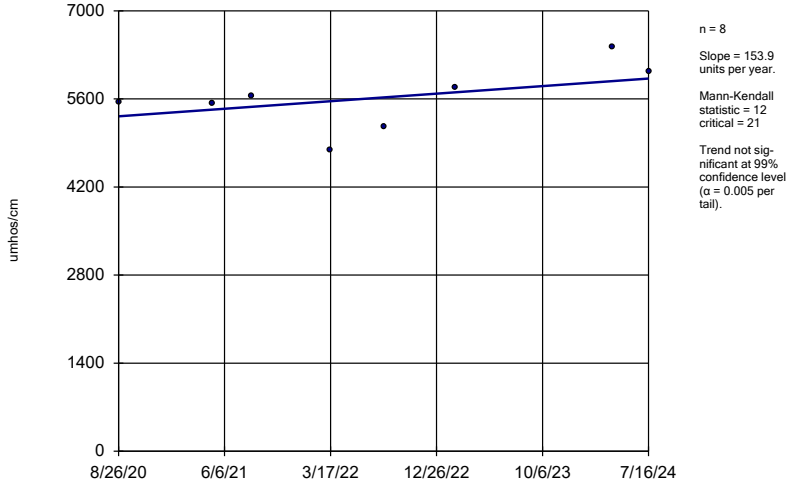
Sen's Slope Estimator

MW-5



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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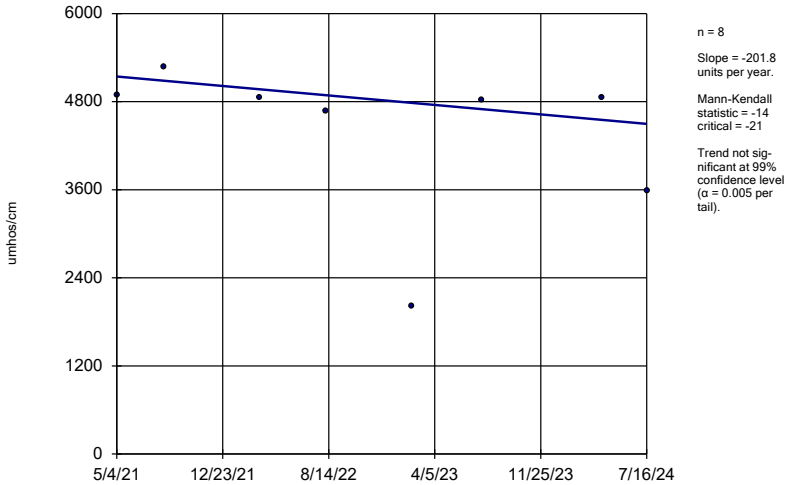
Sen's Slope Estimator

MW-6



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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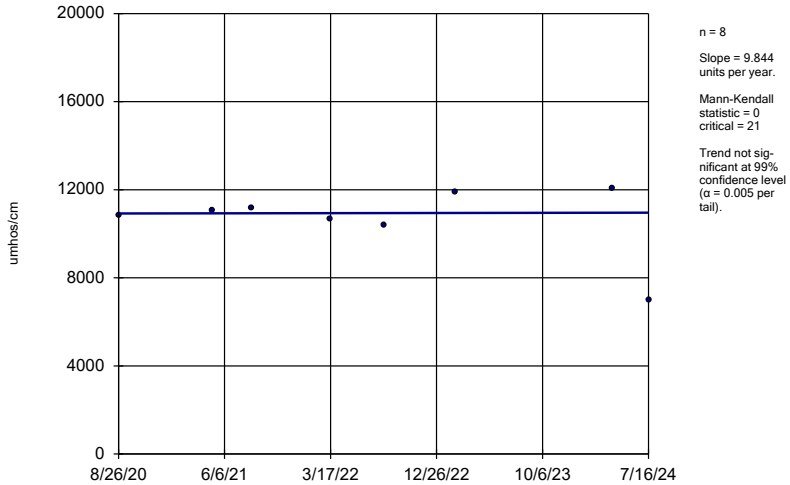
Sen's Slope Estimator

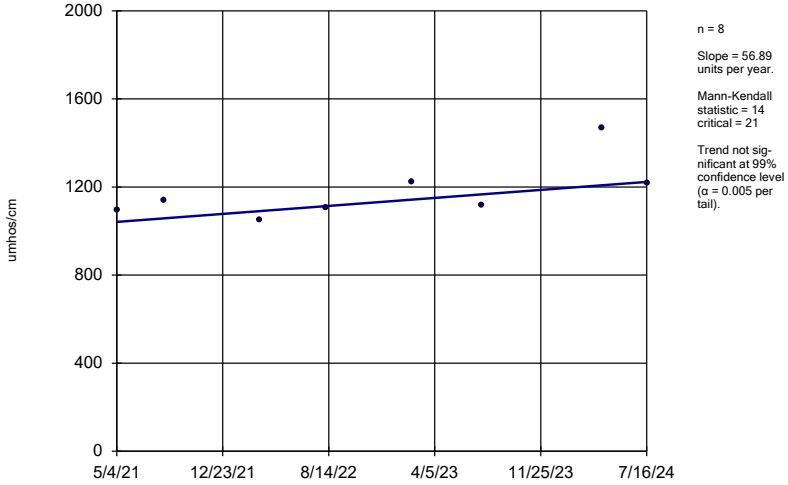
MW-7



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-8



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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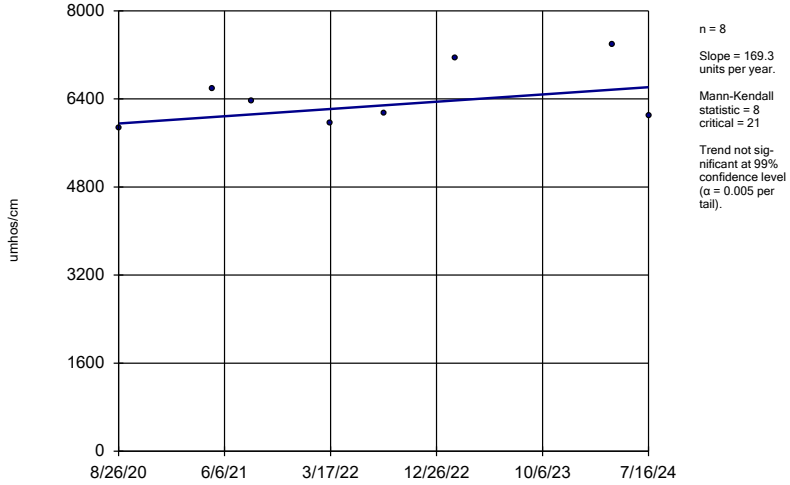
Sen's Slope Estimator

MW-9



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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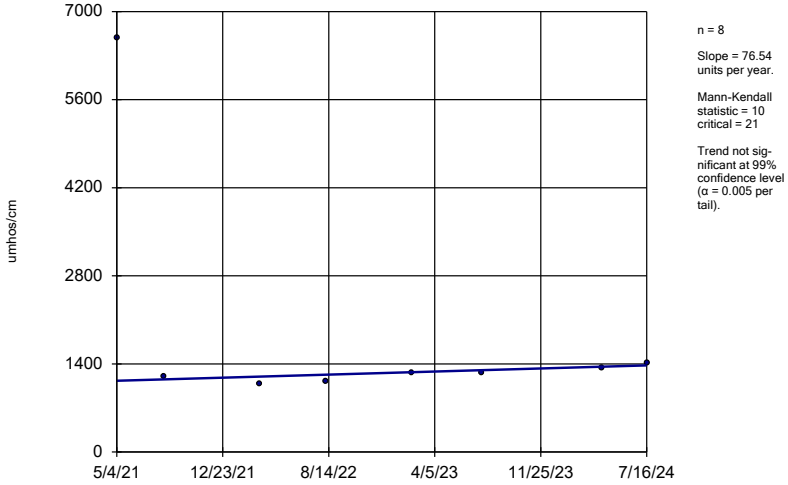
Sen's Slope Estimator

MW-10



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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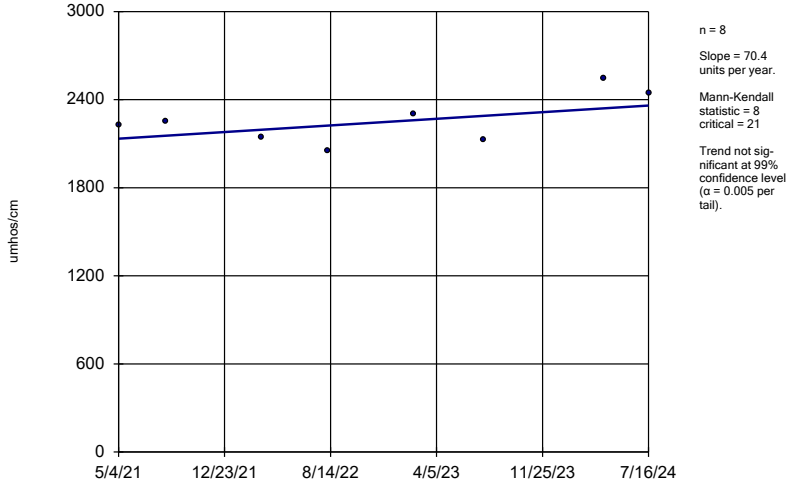
Sen's Slope Estimator

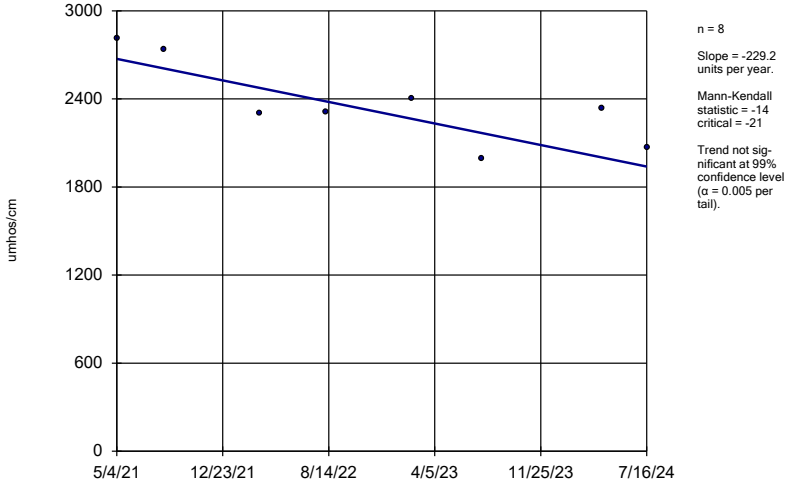
MW-11



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-12



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Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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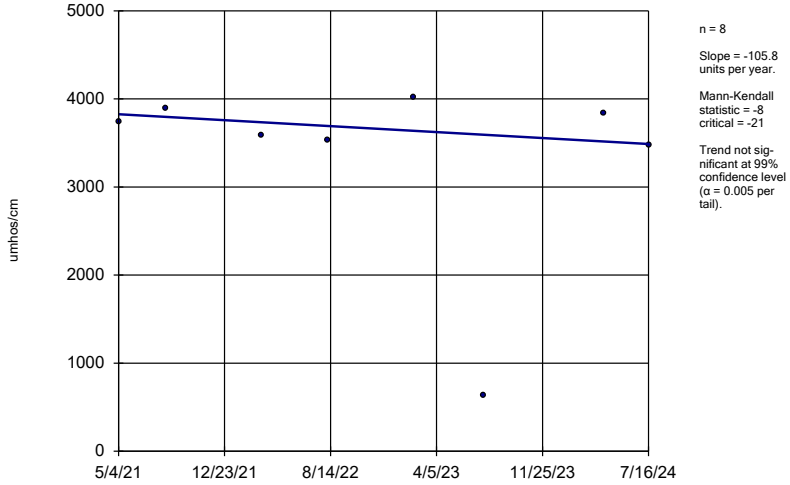
Sen's Slope Estimator

MW-13



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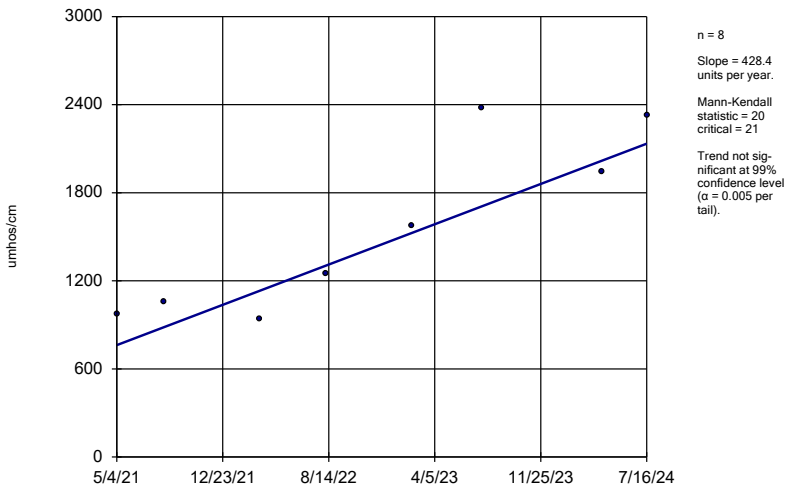
Sen's Slope Estimator

MW-14



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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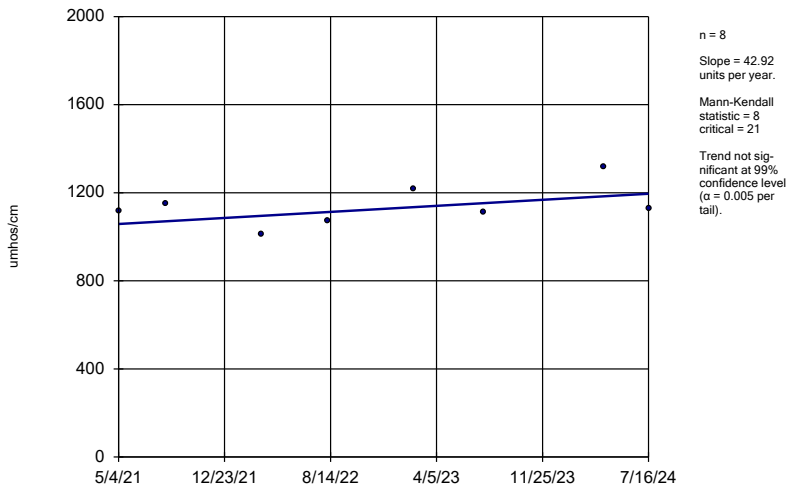
Sen's Slope Estimator

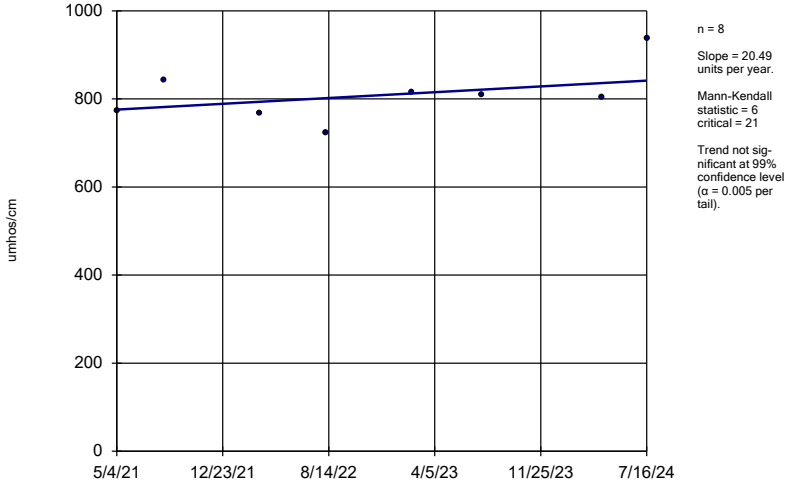
MW-15



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-16



Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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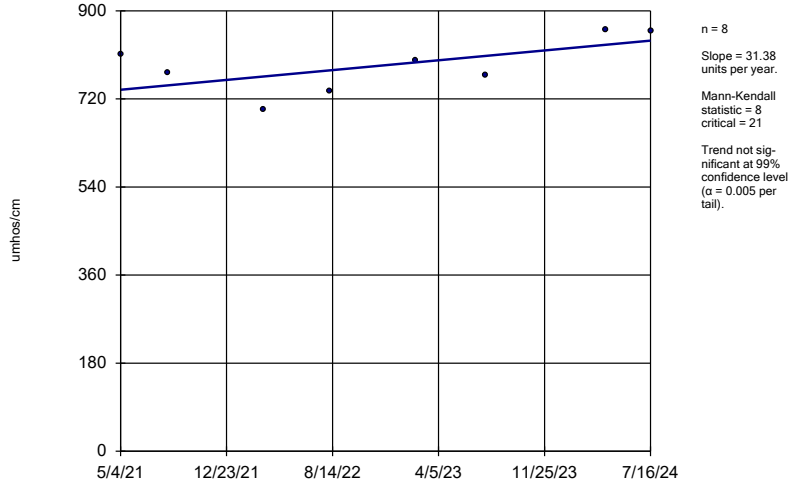
Sen's Slope Estimator

MW-17 (bg)

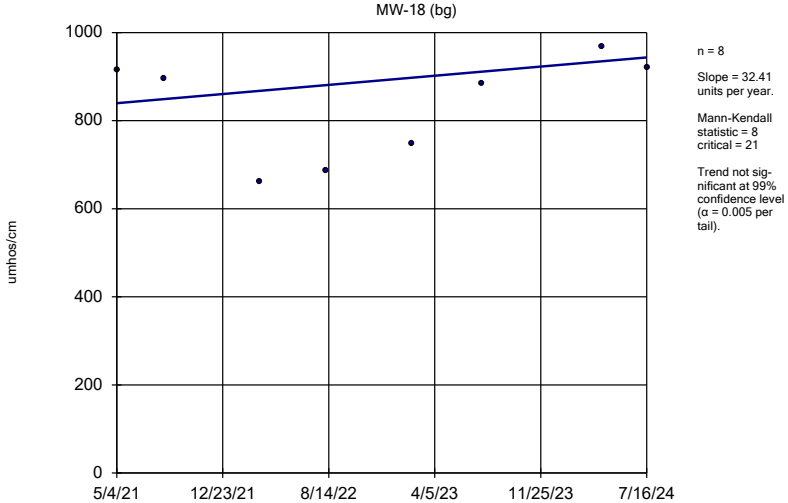


Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-18 (bg)

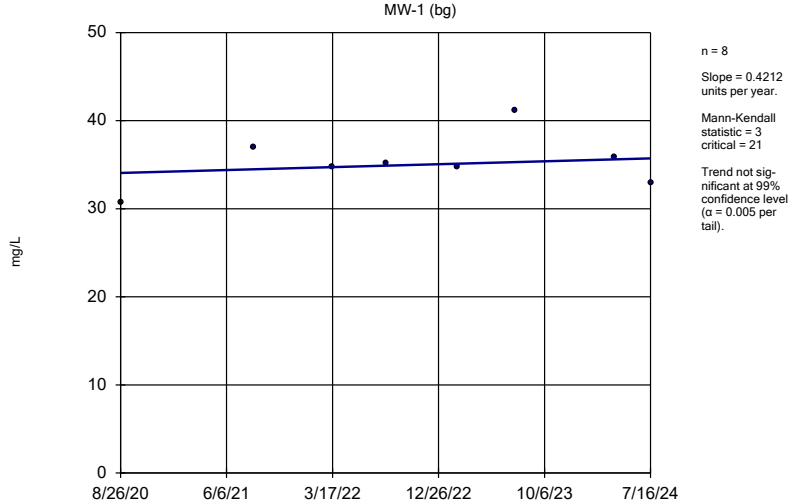


Constituent: Specific Conductance Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

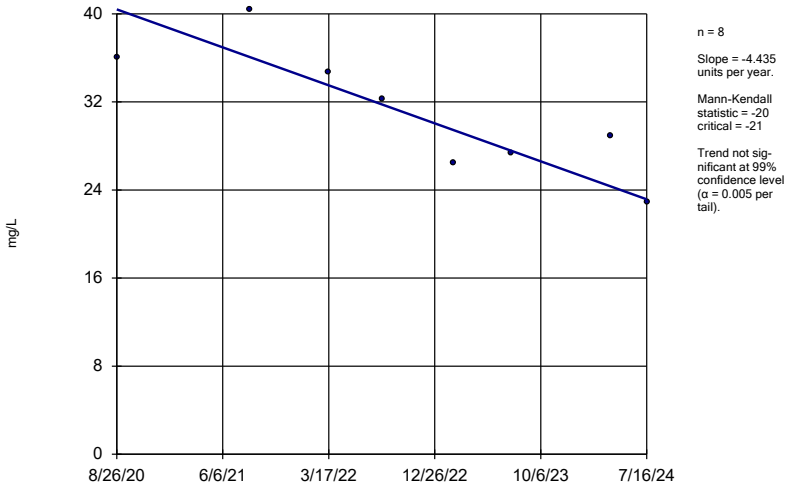
MW-1 (bg)



Constituent: Sulfate Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-2 (bg)



n = 8

Slope = -4.435 units per year.

Mann-Kendall statistic = -20
critical = -21

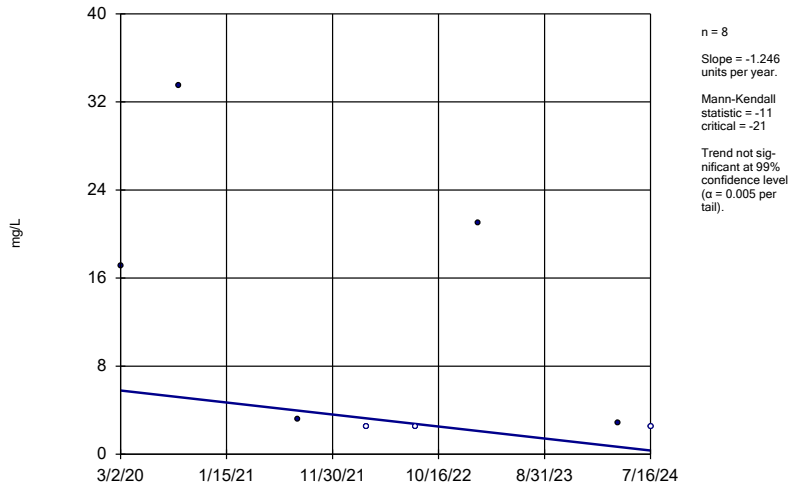
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/24/2024 9:40 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-3



n = 8

Slope = -1.246 units per year.

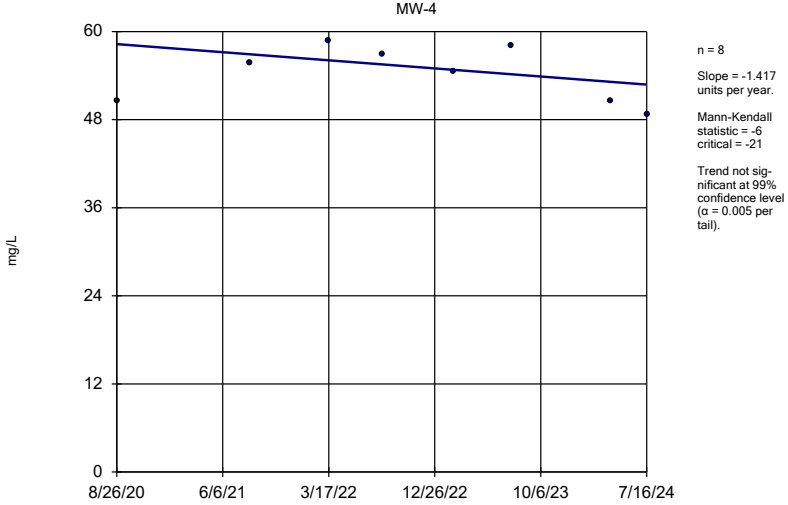
Mann-Kendall statistic = -11
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-4



n = 8

Slope = -1.417 units per year.

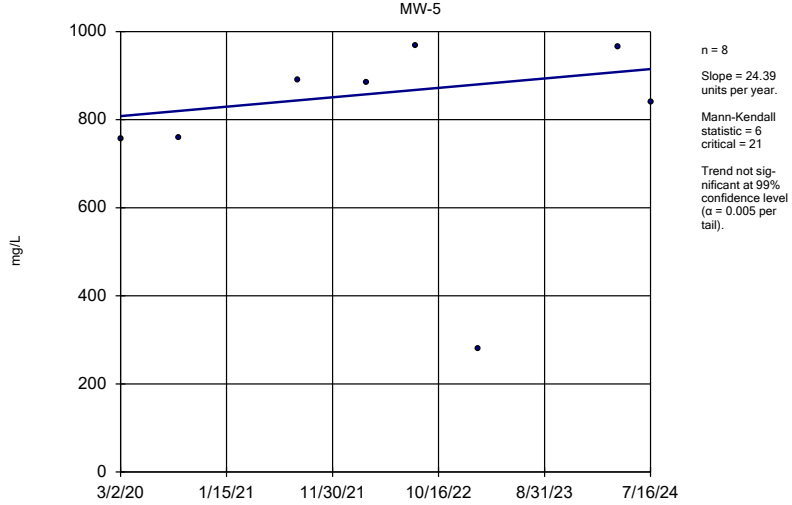
Mann-Kendall statistic = -6
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-5



n = 8

Slope = 24.39 units per year.

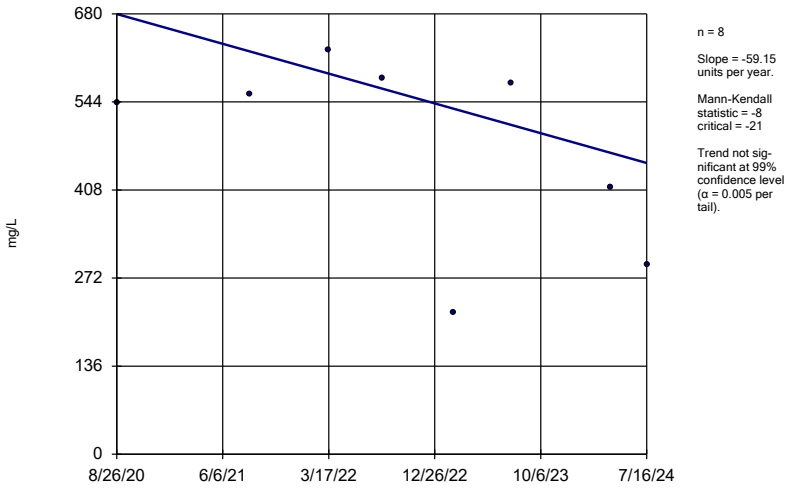
Mann-Kendall statistic = 6
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-6



n = 8

Slope = -59.15 units per year.

Mann-Kendall statistic = -8
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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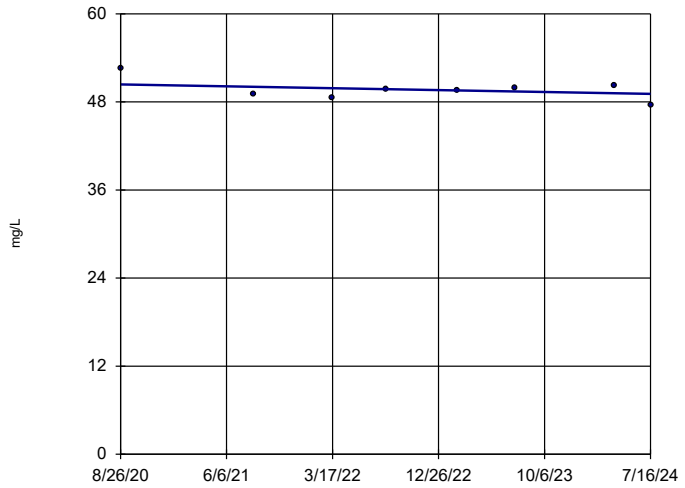
Sen's Slope Estimator

MW-8



n = 8

Slope = -0.3316 units per year.

Mann-Kendall statistic = -2
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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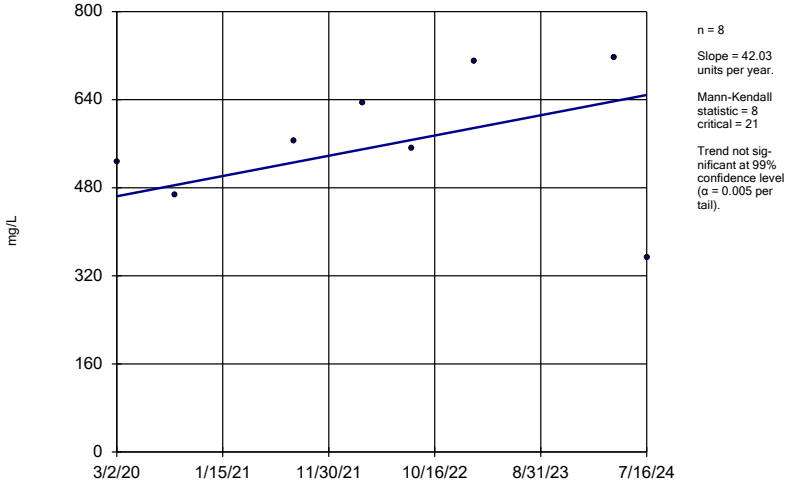
Sen's Slope Estimator

MW-9



n = 8

Slope = 42.03 units per year.

Mann-Kendall statistic = 8
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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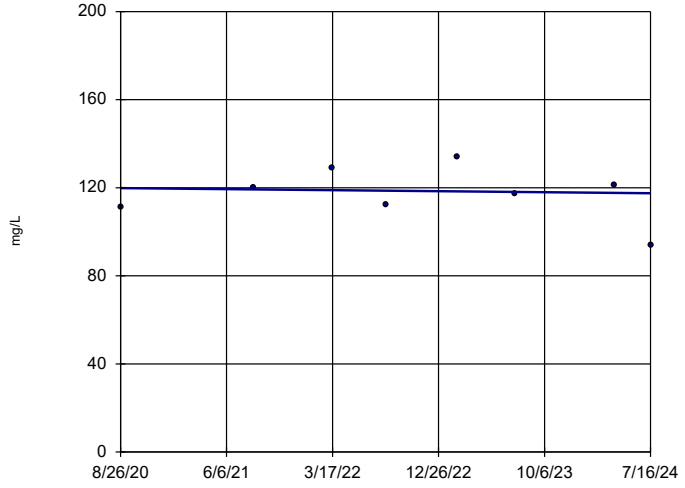
Sen's Slope Estimator

MW-10



n = 8

Slope = -0.5921 units per year.

Mann-Kendall statistic = 0
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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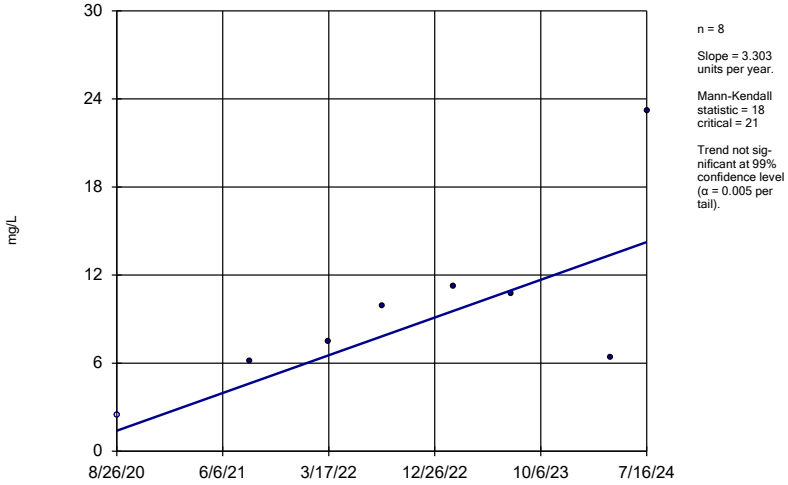
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12

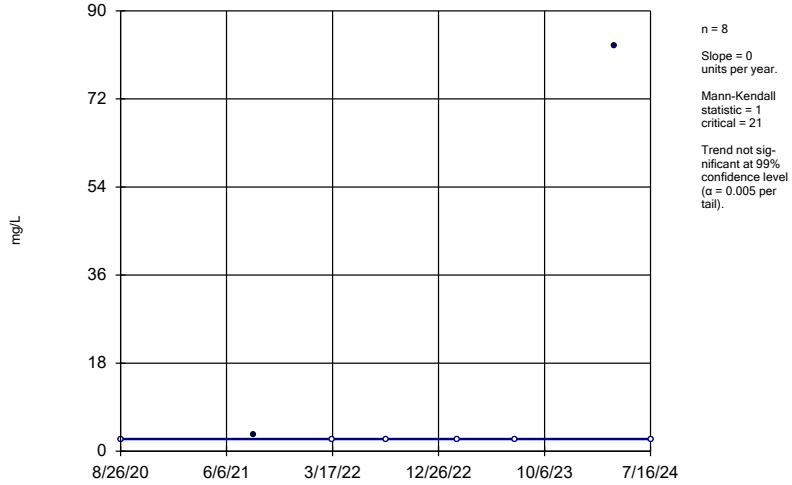


Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13

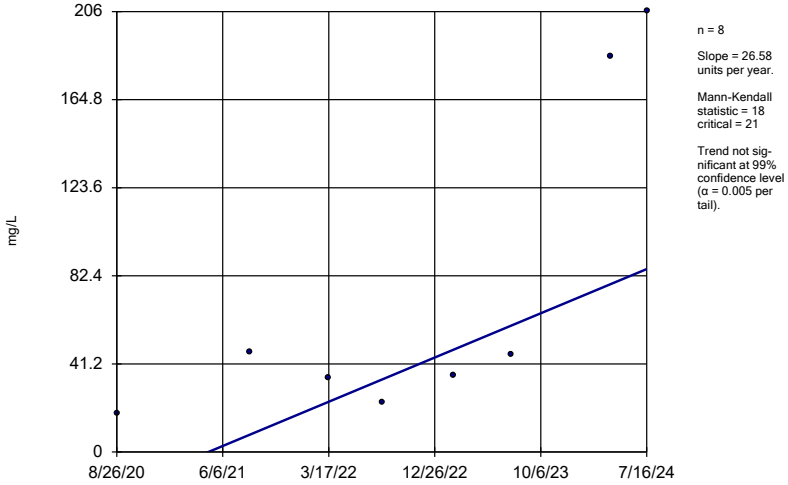


Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14

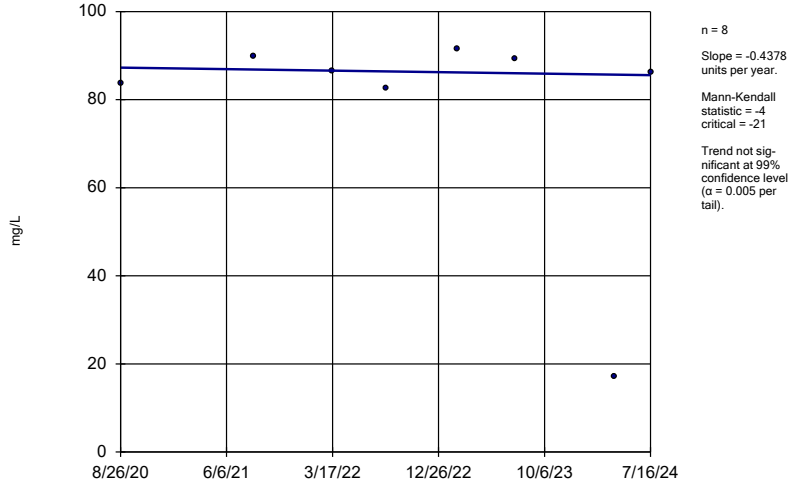


Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sanitas™ v.10.0.22 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

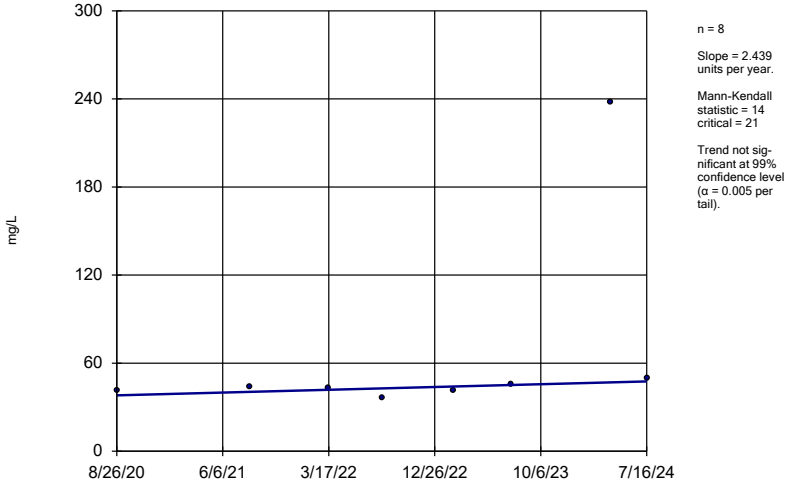
MW-15



Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

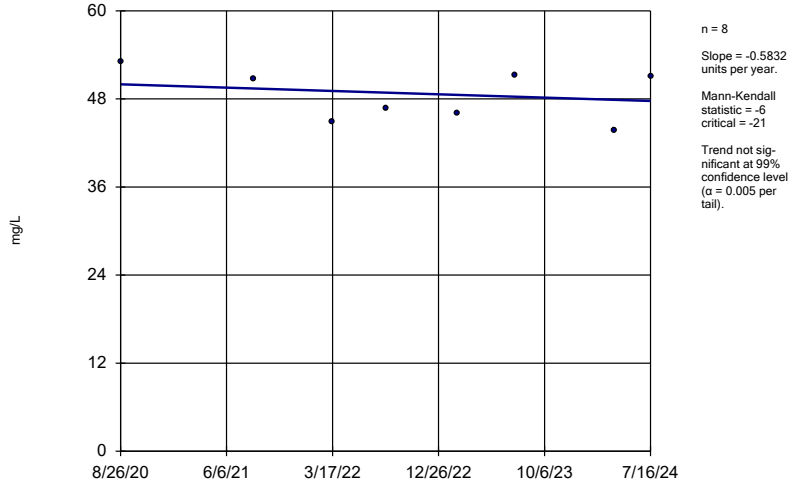
MW-16



Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

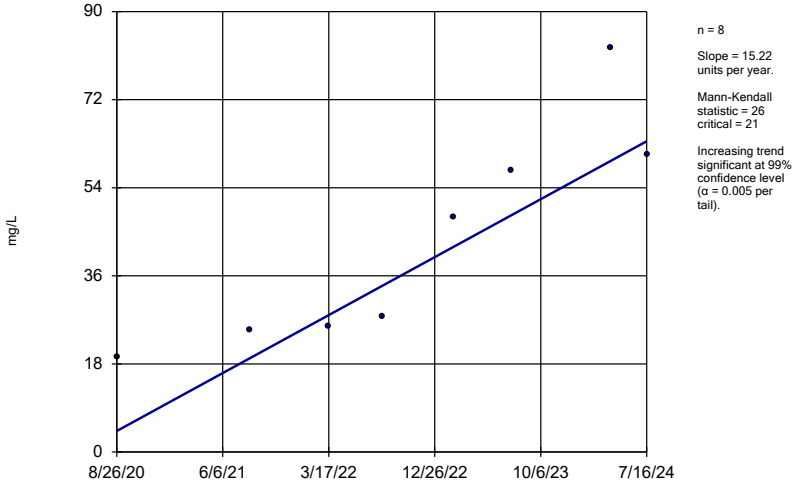
MW-17 (bg)



Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Sen's Slope Estimator

MW-18 (bg)

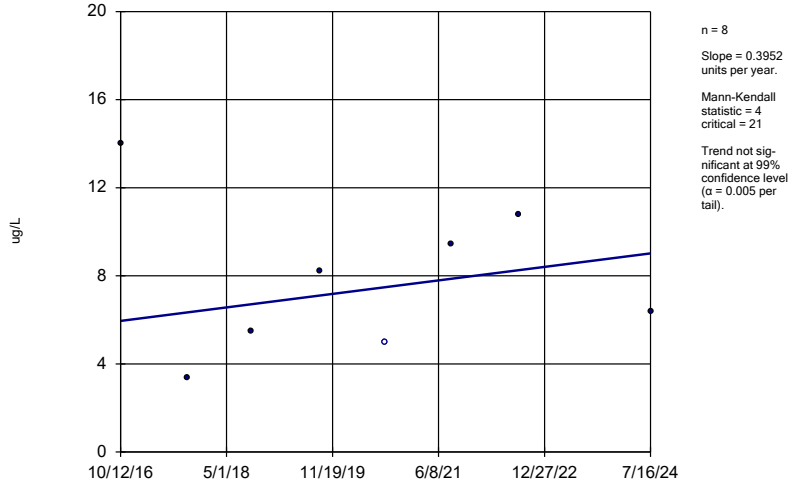


Constituent: Sulfate Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9

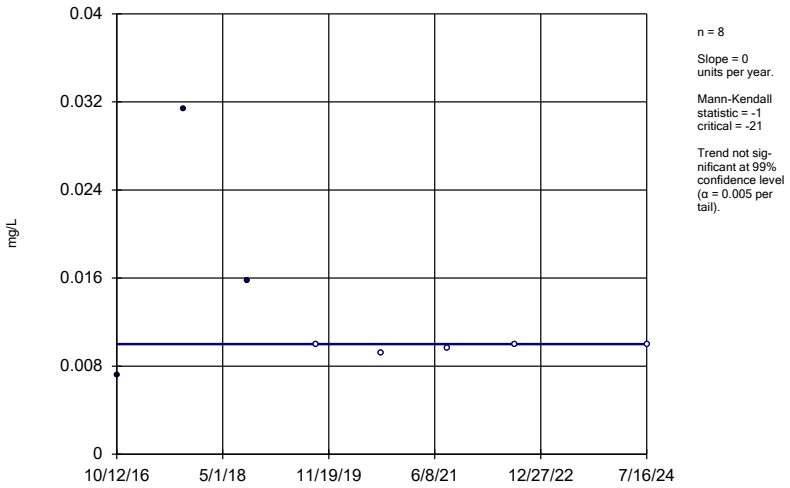


Constituent: Toluene Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



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: Total Phenols Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

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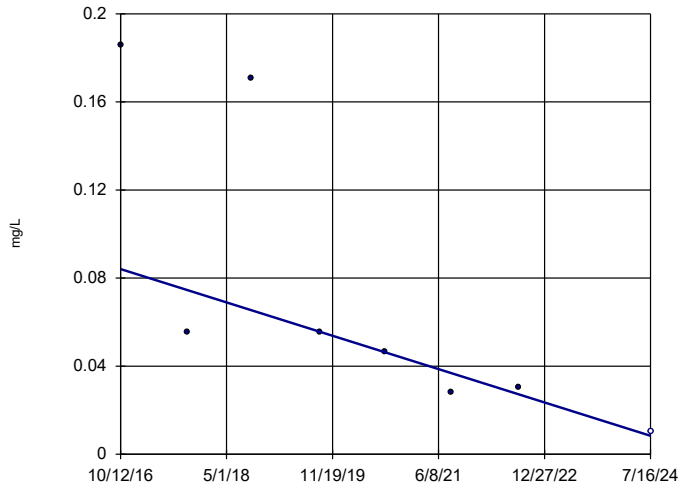
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9



n = 8

Slope = -0.009751 units per year.

Mann-Kendall statistic = -24
critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Phenols Analysis Run 9/24/2024 9:41 AM View: 2024AWQR - Mann Kendall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO-AM 2024AWQR

Attachment B

Control Limits

Unconsolidated Control Limit Spring 2024

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas Printed 8/28/2024, 3:33 PM

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-11**	**0.031**	**n/a**	**4/9/2024**	**0.0762**	**Yes**	**34**	**MW-18,MW-2**	**0.007008**	**0.012**	**47.06**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Arsenic (mg/L)	MW-14	0.031	n/a	4/9/2024	0.000738J	No	34	MW-18,MW-2	0.007008	0.012	47.06	None	No	0.0003117	Param Inter 1 of 2
Arsenic (mg/L)	MW-16	0.031	n/a	4/9/2024	0.0009375J	No	34	MW-18,MW-2	0.007008	0.012	47.06	None	No	0.0003117	Param Inter 1 of 2
Arsenic (mg/L)	MW-3	0.031	n/a	4/9/2024	0.0164	No	34	MW-18,MW-2	0.007008	0.012	47.06	None	No	0.0003117	Param Inter 1 of 2
Arsenic (mg/L)	**MW-5**	**0.031**	**n/a**	**4/9/2024**	**0.0509**	**Yes**	**34**	**MW-18,MW-2**	**0.007008**	**0.012**	**47.06**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Arsenic (mg/L)	**MW-7**	**0.031**	**n/a**	**4/9/2024**	**0.0446**	**Yes**	**34**	**MW-18,MW-2**	**0.007008**	**0.012**	**47.06**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Arsenic (mg/L)	**MW-9**	**0.031**	**n/a**	**4/9/2024**	**0.0907**	**Yes**	**34**	**MW-18,MW-2**	**0.007008**	**0.012**	**47.06**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-11**	**0.4418**	**n/a**	**4/9/2024**	**1.12**	**Yes**	**34**	**MW-18,MW-2**	**0.2949**	**0.07346**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	MW-13	0.4418	n/a	4/9/2024	0.288	No	34	MW-18,MW-2	0.2949	0.07346	0	None	No	0.0003117	Param Inter 1 of 2
Boron (mg/L)	**MW-14**	**0.4418**	**n/a**	**4/9/2024**	**0.774**	**Yes**	**34**	**MW-18,MW-2**	**0.2949**	**0.07346**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	MW-16	0.4418	n/a	4/9/2024	0.3435	No	34	MW-18,MW-2	0.2949	0.07346	0	None	No	0.0003117	Param Inter 1 of 2
Boron (mg/L)	**MW-3**	**0.4418**	**n/a**	**4/9/2024**	**4.03**	**Yes**	**34**	**MW-18,MW-2**	**0.2949**	**0.07346**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-5**	**0.4418**	**n/a**	**4/9/2024**	**20.1**	**Yes**	**34**	**MW-18,MW-2**	**0.2949**	**0.07346**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-7**	**0.4418**	**n/a**	**4/9/2024**	**34.6**	**Yes**	**34**	**MW-18,MW-2**	**0.2949**	**0.07346**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-9**	**0.4418**	**n/a**	**4/9/2024**	**11.4**	**Yes**	**34**	**MW-18,MW-2**	**0.2949**	**0.07346**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	**MW-11**	**49.89**	**n/a**	**4/9/2024**	**156**	**Yes**	**128**	**MW-18,MW-2**	**20.08**	**14.91**	**11.72**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	MW-14	49.89	n/a	4/9/2024	12.4	No	128	MW-18,MW-2	20.08	14.91	11.72	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-16	49.89	n/a	4/9/2024	5.19	No	128	MW-18,MW-2	20.08	14.91	11.72	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-3	49.89	n/a	4/9/2024	40.4	No	128	MW-18,MW-2	20.08	14.91	11.72	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	**MW-5**	**49.89**	**n/a**	**4/9/2024**	**141**	**Yes**	**128**	**MW-18,MW-2**	**20.08**	**14.91**	**11.72**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	**MW-7**	**49.89**	**n/a**	**4/9/2024**	**429**	**Yes**	**128**	**MW-18,MW-2**	**20.08**	**14.91**	**11.72**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	**MW-9**	**49.89**	**n/a**	**4/9/2024**	**511**	**Yes**	**128**	**MW-18,MW-2**	**20.08**	**14.91**	**11.72**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-11**	**73.46**	**n/a**	**4/9/2024**	**129**	**Yes**	**128**	**MW-18,MW-2**	**26.75**	**23.36**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-13**	**73.46**	**n/a**	**4/9/2024**	**97.1**	**Yes**	**128**	**MW-18,MW-2**	**26.75**	**23.36**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-14**	**73.46**	**n/a**	**4/9/2024**	**195**	**Yes**	**128**	**MW-18,MW-2**	**26.75**	**23.36**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-16**	**73.46**	**n/a**	**4/9/2024**	**194.1**	**Yes**	**128**	**MW-18,MW-2**	**26.75**	**23.36**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-3**	**73.46**	**n/a**	**4/9/2024**	**420**	**Yes**	**128**	**MW-18,MW-2**	**26.75**	**23.36**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-5**	**73.46**	**n/a**	**4/9/2024**	**166**	**Yes**	**128**	**MW-18,MW-2**	**26.75**	**23.36**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-7**	**73.46**	**n/a**	**4/9/2024**	**168**	**Yes**	**128**	**MW-18,MW-2**	**26.75**	**23.36**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-9	73.46	n/a	4/9/2024	27.3	No	128	MW-18,MW-2	26.75	23.36	0	None	No	0.0003117	Param Inter 1 of 2
Cobalt (mg/L)	**MW-11**	**0.004394**	**n/a**	**4/9/2024**	**0.0194**	**Yes**	**34**	**MW-18,MW-2**	**0.001439**	**0.001478**	**11.76**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	MW-14	0.004394	n/a	4/9/2024	0.000196J	No	34	MW-18,MW-2	0.001439	0.001478	11.76	None	No	0.0003117	Param Inter 1 of 2
Cobalt (mg/L)	**MW-3**	**0.004394**	**n/a**	**4/9/2024**	**0.00454**	**Yes**	**34**	**MW-18,MW-2**	**0.001439**	**0.001478**	**11.76**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	**MW-5**	**0.004394**	**n/a**	**4/9/2024**	**0.00805**	**Yes**	**34**	**MW-18,MW-2**	**0.001439**	**0.001478**	**11.76**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	**MW-7**	**0.004394**	**n/a**	**4/9/2024**	**0.00571**	**Yes**	**34**	**MW-18,MW-2**	**0.001439**	**0.001478**	**11.76**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	MW-9	0.004394	n/a	4/9/2024	0.00286	No	34	MW-18,MW-2	0.001439	0.001478	11.76	None	No	0.0003117	Param Inter 1 of 2
Iron (mg/L)	**MW-11**	**1.608**	**n/a**	**4/9/2024**	**69.4**	**Yes**	**10**	**MW-18,MW-2**	**0.4447**	**0.5814**	**40**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	MW-13	1.608	n/a	4/9/2024	0.0563J	No	10	MW-18,MW-2	0.4447	0.5814	40	None	No	0.0003117	Param Inter 1 of 2
Iron (mg/L)	MW-16	1.608	n/a	4/9/2024	0.06245J	No	10	MW-18,MW-2	0.4447	0.5814	40	None	No	0.0003117	Param Inter 1 of 2
Iron (mg/L)	**MW-3**	**1.608**	**n/a**	**4/9/2024**	**31.2**	**Yes**	**10**	**MW-18,MW-2**	**0.4447**	**0.5814**	**40**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	**MW-5**	**1.608**	**n/a**	**4/9/2024**	**38.9**	**Yes**	**10**	**MW-18,MW-2**	**0.4447**	**0.5814**	**40**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	MW-7	1.608	n/a	4/9/2024	0.583J	No	10	MW-18,MW-2	0.4447	0.5814	40	None	No	0.0003117	Param Inter 1 of 2
Magnesium (mg/L)	**MW-11**	**38.14**	**n/a**	**4/9/2024**	**97.8**	**Yes**	**34**	**MW-18,MW-2**	**30.35**	**3.894**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-13**	**38.14**	**n/a**	**4/9/2024**	**53.1**	**Yes**	**34**	**MW-18,MW-2**	**30.35**	**3.894**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-14**	**38.14**	**n/a**	**4/9/2024**	**84**	**Yes**	**34**	**MW-18,MW-2**	**30.35**	**3.894**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-3**	**38.14**	**n/a**	**4/9/2024**	**96.3**	**Yes**	**34**	**MW-18,MW-2**	**30.35**	**3.894**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-5**	**38.14**	**n/a**	**4/9/2024**	**463**	**Yes**	**34**	**MW-18,MW-2**	**30.35**	**3.894**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-7**	**38.14**	**n/a**	**4/9/2024**	**321**	**Yes**	**34**	**MW-18,MW-2**	**30.35**	**3.894**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-9**	**38.14**	**n/a**	**4/9/2024**	**265**	**Yes**	**34**	**MW-18,MW-2**	**30.35**	**3.894**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	MW-11	1.078	n/a	4/9/2024	1.04	No	34	MW-18,MW-2	0.4491	0.3146	0	None	No	0.0003117	Param Inter 1 of 2

Unconsolidated Control Limit Spring 2024

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas Printed 8/28/2024, 3:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Manganese (mg/L)	MW-14	1.078	n/a	4/9/2024	0.0805	No	34	MW-18,MW-2	0.4491	0.3146	0	None	No	0.0003117	Param Inter 1 of 2
Manganese (mg/L)	**MW-3**	**1.078**	**n/a**	**4/9/2024**	**5.68**	**Yes**	**34**	**MW-18,MW-2**	**0.4491**	**0.3146**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	**MW-5**	**1.078**	**n/a**	**4/9/2024**	**2.43**	**Yes**	**34**	**MW-18,MW-2**	**0.4491**	**0.3146**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	MW-7	1.078	n/a	4/9/2024	0.463	No	34	MW-18,MW-2	0.4491	0.3146	0	None	No	0.0003117	Param Inter 1 of 2
Manganese (mg/L)	**MW-9**	**1.078**	**n/a**	**4/9/2024**	**1.48**	**Yes**	**34**	**MW-18,MW-2**	**0.4491**	**0.3146**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-11**	**5.386**	**n/a**	**4/9/2024**	**32.1**	**Yes**	**128**	**MW-18,MW-2**	**1.96**	**1.713**	**17.19**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	MW-3	5.386	n/a	4/9/2024	2.22	No	128	MW-18,MW-2	1.96	1.713	17.19	None	No	0.0003117	Param Inter 1 of 2
Nitrogen, Ammonia (mg/L)	**MW-5**	**5.386**	**n/a**	**4/9/2024**	**71.4**	**Yes**	**128**	**MW-18,MW-2**	**1.96**	**1.713**	**17.19**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-7**	**5.386**	**n/a**	**4/9/2024**	**104**	**Yes**	**128**	**MW-18,MW-2**	**1.96**	**1.713**	**17.19**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-9**	**5.386**	**n/a**	**4/9/2024**	**326**	**Yes**	**128**	**MW-18,MW-2**	**1.96**	**1.713**	**17.19**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
pH (S.U.)	MW-11	7.884	6.207	4/9/2024	6.48	No	128	MW-18,MW-2	7.045	0.4193	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-13	7.884	6.207	4/9/2024	6.86	No	128	MW-18,MW-2	7.045	0.4193	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-14	7.884	6.207	4/9/2024	6.76	No	128	MW-18,MW-2	7.045	0.4193	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-16	7.884	6.207	4/9/2024	7.01	No	128	MW-18,MW-2	7.045	0.4193	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-3	7.884	6.207	4/9/2024	6.79	No	128	MW-18,MW-2	7.045	0.4193	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-5	7.884	6.207	4/9/2024	6.58	No	128	MW-18,MW-2	7.045	0.4193	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-7	7.884	6.207	4/9/2024	7.09	No	128	MW-18,MW-2	7.045	0.4193	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-9	7.884	6.207	4/9/2024	6.72	No	128	MW-18,MW-2	7.045	0.4193	0	None	No	0.0001558	Param Inter 1 of 2
Specific Conductance (umhos/cm)	**MW-11**	**1422**	**n/a**	**4/9/2024**	**2541**	**Yes**	**128**	**MW-18,MW-2**	**925.5**	**248.4**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-13**	**1422**	**n/a**	**4/9/2024**	**3831**	**Yes**	**128**	**MW-18,MW-2**	**925.5**	**248.4**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-14**	**1422**	**n/a**	**4/9/2024**	**1940**	**Yes**	**128**	**MW-18,MW-2**	**925.5**	**248.4**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	MW-16	1422	n/a	4/9/2024	805	No	128	MW-18,MW-2	925.5	248.4	0	None	No	0.0003117	Param Inter 1 of 2
Specific Conductance (umhos/cm)	**MW-3**	**1422**	**n/a**	**4/9/2024**	**3382**	**Yes**	**128**	**MW-18,MW-2**	**925.5**	**248.4**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-5**	**1422**	**n/a**	**4/9/2024**	**6432**	**Yes**	**128**	**MW-18,MW-2**	**925.5**	**248.4**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-7**	**1422**	**n/a**	**4/9/2024**	**12081**	**Yes**	**128**	**MW-18,MW-2**	**925.5**	**248.4**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-9**	**1422**	**n/a**	**4/9/2024**	**7381**	**Yes**	**128**	**MW-18,MW-2**	**925.5**	**248.4**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MW-13**	**78.47**	**n/a**	**4/9/2024**	**82.8**	**Yes**	**28**	**MW-18,MW-2**	**37**	**20.74**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MW-14**	**78.47**	**n/a**	**4/9/2024**	**185**	**Yes**	**28**	**MW-18,MW-2**	**37**	**20.74**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MW-16**	**78.47**	**n/a**	**4/9/2024**	**237.8**	**Yes**	**28**	**MW-18,MW-2**	**37**	**20.74**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	MW-3	78.47	n/a	4/9/2024	2.88J	No	28	MW-18,MW-2	37	20.74	0	None	No	0.0003117	Param Inter 1 of 2
Sulfate (mg/L)	**MW-5**	**78.47**	**n/a**	**4/9/2024**	**965**	**Yes**	**28**	**MW-18,MW-2**	**37**	**20.74**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MW-9**	**78.47**	**n/a**	**4/9/2024**	**717**	**Yes**	**28**	**MW-18,MW-2**	**37**	**20.74**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**

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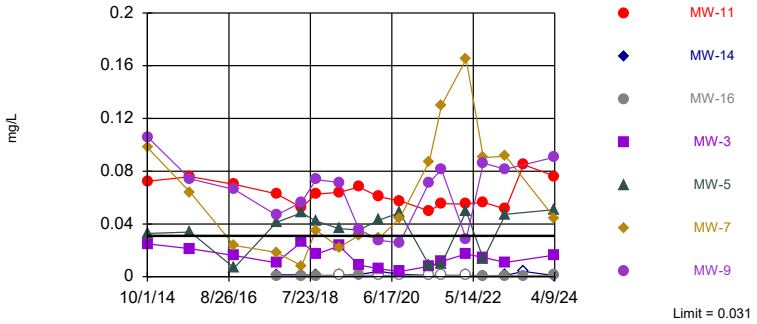
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.007008, Std. Dev.=0.012, n=34, 47.06% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 7 points to limit. Assumes 6 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unconsol-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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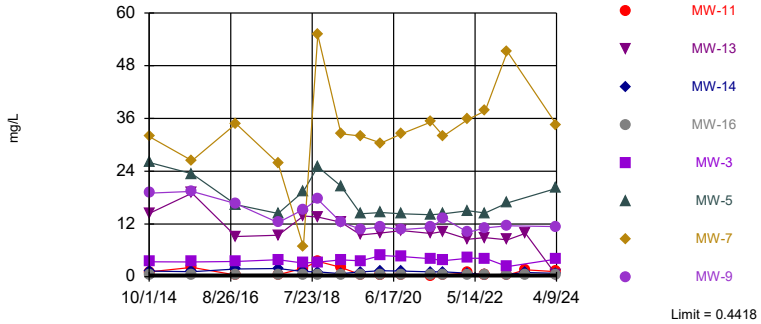
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-14, MW-3, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.2949, Std. Dev.=0.07346, n=34. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: Boron Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unconsol-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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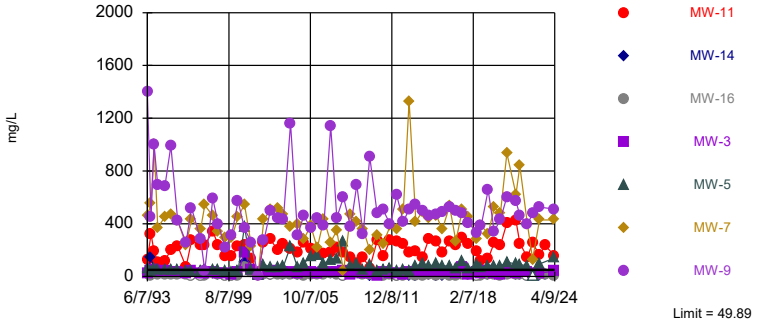
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=20.08, Std. Dev.=14.91, n=128, 11.72% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 7 points to limit. Assumes 6 future values. Kappa overridden to 2.

Constituent: Chemical Oxygen Demand Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limi
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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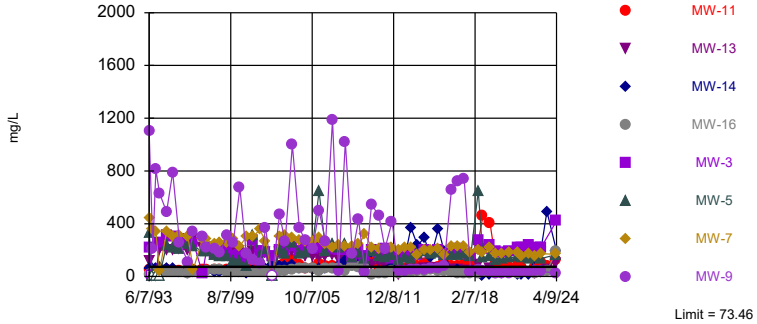
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-13, MW-14, MW-16, MW-3, MW-5, MW-7

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=26.75, Std. Dev.=23.36, n=128. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: Chloride Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unconsol-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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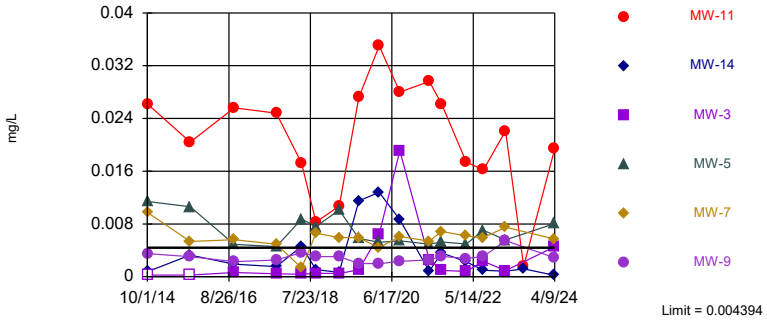
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-3, MW-5, MW-7

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.001439, Std. Dev.=0.001478, n=34, 11.76% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Cobalt Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unconsol-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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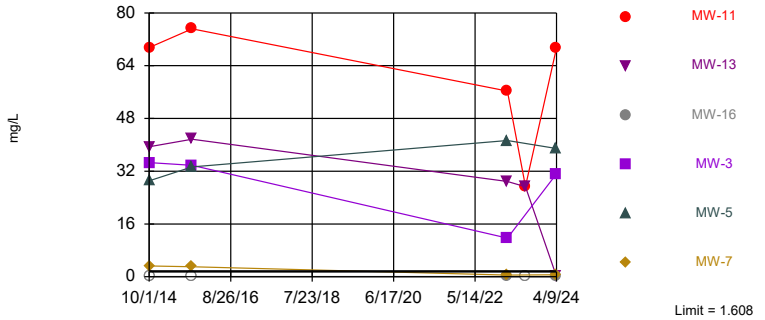
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-3, MW-5

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.4447, Std. Dev.=0.5814, n=10, 40% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Iron Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unconsol-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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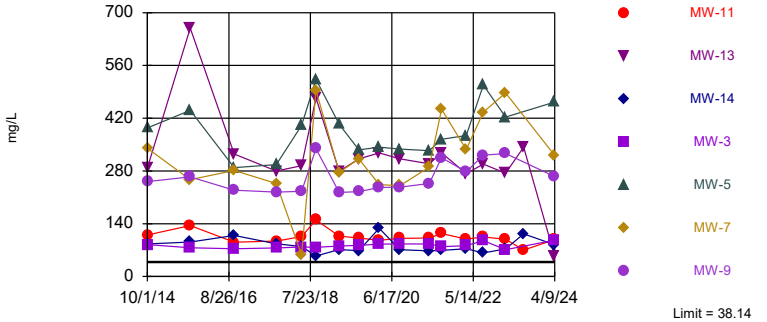
Exceeds Limit: MW-11, MW-13, MW-14, MW-3, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=30.35, Std. Dev.=3.894, n=34. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 7 points to limit. Assumes 6 future values. Kappa overridden to 2.

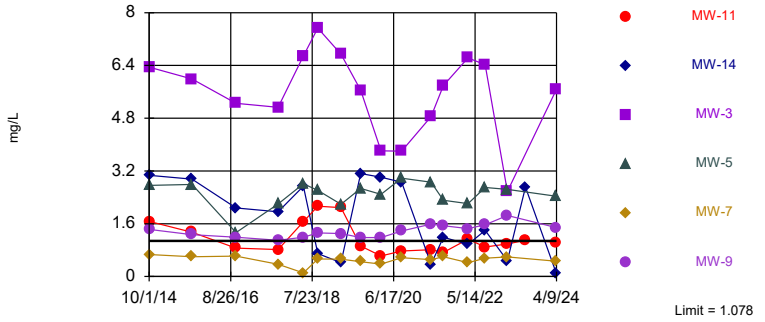
Constituent: Magnesium Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unconsol-Spr
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Exceeds Limit: MW-3, MW-5, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.4491, Std. Dev.=0.3146, n=34. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Manganese Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unconsol-Spr
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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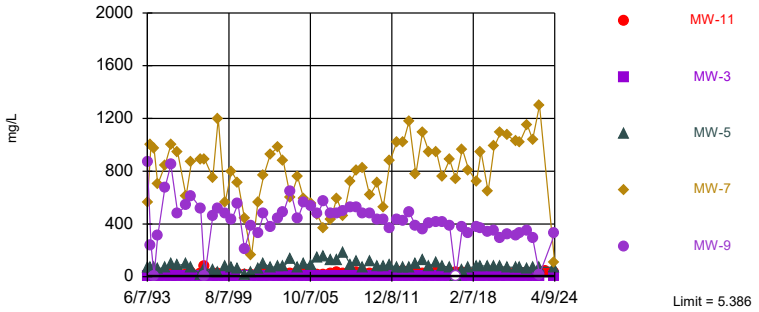
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=1.96, Std. Dev.=1.713, n=128, 17.19% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 5 points to limit. Assumes 8 future values. Kappa overridden to 2.

Constituent: Nitrogen, Ammonia Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unco

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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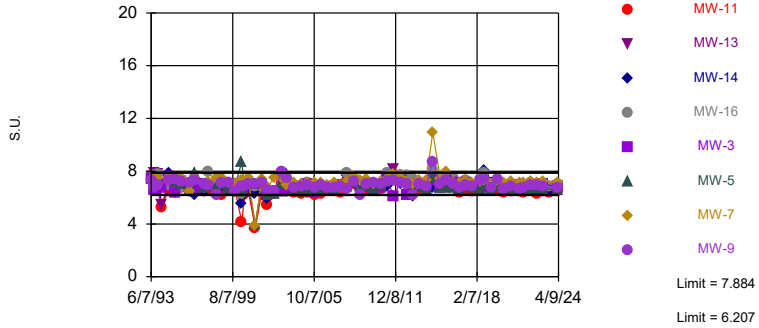
Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.045, Std. Dev.=0.4193, n=128. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: pH Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unconsol-Spring

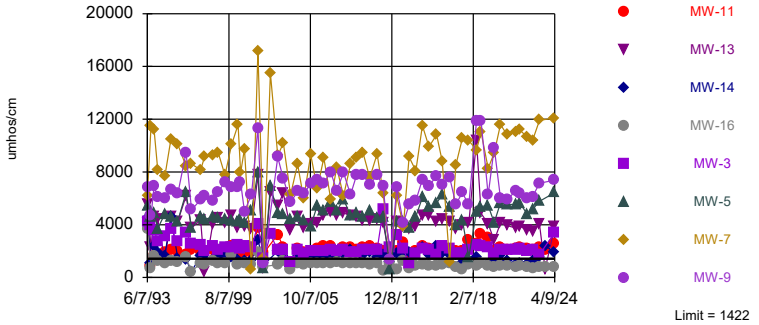
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Exceeds Limit: MW-11, MW-13, MW-14, MW-3, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=925.5, Std. Dev.=248.4, n=128. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: Specific Conductance Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Un

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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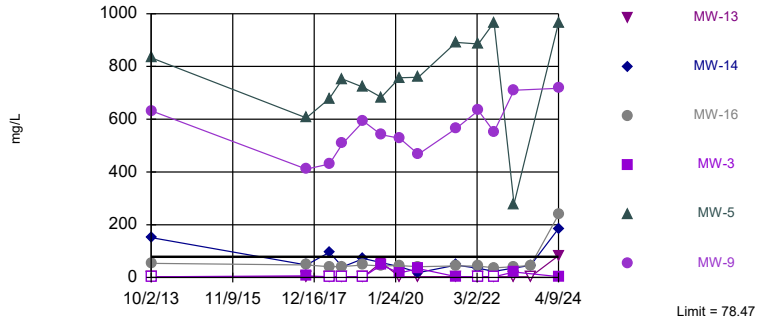
Hollow symbols indicate censored values.

Exceeds Limit: MW-13, MW-14, MW-16, MW-5, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=37, Std. Dev.=20.74, n=28. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Sulfate Analysis Run 8/28/2024 3:32 PM View: 2024AWQR - Control Limit-Unconsol-Spring

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Bedrock Control Limit Spring 2024

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas Printed 8/28/2024, 3:15 PM

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-12**	**0.001172**	**n/a**	**4/9/2024**	**0.0895**	**Yes**	**34**	**MW-1,MW-17**	**0.0009644**	**0.000104**	**85.29**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Arsenic (mg/L)	**MW-15**	**0.001172**	**n/a**	**4/9/2024**	**0.102**	**Yes**	**34**	**MW-1,MW-17**	**0.0009644**	**0.000104**	**85.29**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Arsenic (mg/L)	**MW-6**	**0.001172**	**n/a**	**4/9/2024**	**0.0295**	**Yes**	**34**	**MW-1,MW-17**	**0.0009644**	**0.000104**	**85.29**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	MW-10	0.9976	n/a	4/9/2024	0.519	No	34	MW-1,MW-17	0.4022	0.2977	2.941	None	No	0.0003117	Param Inter 1 of 2
Boron (mg/L)	**MW-12**	**0.9976**	**n/a**	**4/9/2024**	**1.87**	**Yes**	**34**	**MW-1,MW-17**	**0.4022**	**0.2977**	**2.941**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-15**	**0.9976**	**n/a**	**4/9/2024**	**7.68**	**Yes**	**34**	**MW-1,MW-17**	**0.4022**	**0.2977**	**2.941**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	MW-4	0.9976	n/a	4/9/2024	0.332	No	34	MW-1,MW-17	0.4022	0.2977	2.941	None	No	0.0003117	Param Inter 1 of 2
Boron (mg/L)	**MW-6**	**0.9976**	**n/a**	**4/9/2024**	**14.1**	**Yes**	**34**	**MW-1,MW-17**	**0.4022**	**0.2977**	**2.941**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	MW-8	0.9976	n/a	4/9/2024	0.772	No	34	MW-1,MW-17	0.4022	0.2977	2.941	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-10	19.3	n/a	4/9/2024	5.36	No	98	MW-1,MW-17	6.675	6.315	54.08	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	**MW-12**	**19.3**	**n/a**	**4/9/2024**	**25.2**	**Yes**	**98**	**MW-1,MW-17**	**6.675**	**6.315**	**54.08**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	**MW-15**	**19.3**	**n/a**	**4/9/2024**	**102**	**Yes**	**98**	**MW-1,MW-17**	**6.675**	**6.315**	**54.08**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	**MW-6**	**19.3**	**n/a**	**4/9/2024**	**85.8**	**Yes**	**98**	**MW-1,MW-17**	**6.675**	**6.315**	**54.08**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-10	225.4	n/a	4/9/2024	49.3	No	97	MW-1,MW-17	90.23	67.59	0	None	No	0.0003117	Param Inter 1 of 2
Chloride (mg/L)	**MW-12**	**225.4**	**n/a**	**4/9/2024**	**302**	**Yes**	**97**	**MW-1,MW-17**	**90.23**	**67.59**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-15	225.4	n/a	4/9/2024	78.7	No	97	MW-1,MW-17	90.23	67.59	0	None	No	0.0003117	Param Inter 1 of 2
Chloride (mg/L)	MW-4	225.4	n/a	4/9/2024	186	No	97	MW-1,MW-17	90.23	67.59	0	None	No	0.0003117	Param Inter 1 of 2
Chloride (mg/L)	**MW-6**	**225.4**	**n/a**	**4/9/2024**	**317**	**Yes**	**97**	**MW-1,MW-17**	**90.23**	**67.59**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-8	225.4	n/a	4/9/2024	176	No	97	MW-1,MW-17	90.23	67.59	0	None	No	0.0003117	Param Inter 1 of 2
Cobalt (mg/L)	**MW-12**	**0.0005694**	**n/a**	**4/9/2024**	**0.00158**	**Yes**	**34**	**MW-1,MW-17**	**0.000284**	**0.0001427**	**47.06**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	**MW-15**	**0.0005694**	**n/a**	**4/9/2024**	**0.00183**	**Yes**	**34**	**MW-1,MW-17**	**0.000284**	**0.0001427**	**47.06**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	**MW-6**	**0.0005694**	**n/a**	**4/9/2024**	**0.00386**	**Yes**	**34**	**MW-1,MW-17**	**0.000284**	**0.0001427**	**47.06**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	MW-8	0.0005694	n/a	4/9/2024	0.000382J	No	34	MW-1,MW-17	0.000284	0.0001427	47.06	None	No	0.0003117	Param Inter 1 of 2
Iron (mg/L)	**MW-10**	**0.05**	**n/a**	**4/9/2024**	**0.206**	**Yes**	**10**	**MW-1,MW-17**	**0.05**	**0**	**100**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	**MW-12**	**0.05**	**n/a**	**4/9/2024**	**26.8**	**Yes**	**10**	**MW-1,MW-17**	**0.05**	**0**	**100**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	**MW-15**	**0.05**	**n/a**	**4/9/2024**	**19.6**	**Yes**	**10**	**MW-1,MW-17**	**0.05**	**0**	**100**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	MW-4	0.05	n/a	4/9/2024	0.0535J	No	10	MW-1,MW-17	0.05	0	100	None	No	0.0003117	Param Inter 1 of 2
Iron (mg/L)	**MW-6**	**0.05**	**n/a**	**4/9/2024**	**14.3**	**Yes**	**10**	**MW-1,MW-17**	**0.05**	**0**	**100**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	MW-10	57.75	n/a	4/9/2024	51.4	No	34	MW-1,MW-17	39.21	9.271	0	None	No	0.0003117	Param Inter 1 of 2
Magnesium (mg/L)	**MW-12**	**57.75**	**n/a**	**4/9/2024**	**69.9**	**Yes**	**34**	**MW-1,MW-17**	**39.21**	**9.271**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-15**	**57.75**	**n/a**	**4/9/2024**	**278**	**Yes**	**34**	**MW-1,MW-17**	**39.21**	**9.271**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-6**	**57.75**	**n/a**	**4/9/2024**	**324**	**Yes**	**34**	**MW-1,MW-17**	**39.21**	**9.271**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	MW-10	1.166	n/a	4/9/2024	0.209	No	34	MW-1,MW-17	0.2597	0.453	50	None	No	0.0003117	Param Inter 1 of 2
Manganese (mg/L)	MW-12	1.166	n/a	4/9/2024	0.942	No	34	MW-1,MW-17	0.2597	0.453	50	None	No	0.0003117	Param Inter 1 of 2
Manganese (mg/L)	MW-6	1.166	n/a	4/9/2024	0.319	No	34	MW-1,MW-17	0.2597	0.453	50	None	No	0.0003117	Param Inter 1 of 2
Nickel (mg/L)	**MW-6**	**0.005074**	**n/a**	**4/9/2024**	**0.0458**	**Yes**	**32**	**MW-1,MW-17**	**0.00292**	**0.001077**	**68.75**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	MW-10	1.306	n/a	4/9/2024	0.195J	No	98	MW-1,MW-17	0.2658	0.5202	84.69	None	No	0.0003117	Param Inter 1 of 2
Nitrogen, Ammonia (mg/L)	**MW-12**	**1.306**	**n/a**	**4/9/2024**	**16.1**	**Yes**	**98**	**MW-1,MW-17**	**0.2658**	**0.5202**	**84.69**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-15**	**1.306**	**n/a**	**4/9/2024**	**68.5**	**Yes**	**98**	**MW-1,MW-17**	**0.2658**	**0.5202**	**84.69**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-6**	**1.306**	**n/a**	**4/9/2024**	**128**	**Yes**	**98**	**MW-1,MW-17**	**0.2658**	**0.5202**	**84.69**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
pH (S.U.)	MW-10	7.777	6.225	4/9/2024	6.72	No	99	MW-1,MW-17	7.001	0.3881	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-12	7.777	6.225	4/9/2024	6.62	No	99	MW-1,MW-17	7.001	0.3881	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-15	7.777	6.225	4/9/2024	6.88	No	99	MW-1,MW-17	7.001	0.3881	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-4	7.777	6.225	4/9/2024	6.92	No	99	MW-1,MW-17	7.001	0.3881	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-6	7.777	6.225	4/9/2024	6.62	No	99	MW-1,MW-17	7.001	0.3881	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-8	7.777	6.225	4/9/2024	6.98	No	99	MW-1,MW-17	7.001	0.3881	0	None	No	0.0001558	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-10	1596	n/a	4/9/2024	1342	No	100	MW-1,MW-17	1082	257.2	0	None	No	0.0003117	Param Inter 1 of 2
Specific Conductance (umhos/cm)	**MW-12**	**1596**	**n/a**	**4/9/2024**	**2337**	**Yes**	**100**	**MW-1,MW-17**	**1082**	**257.2**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	MW-15	1596	n/a	4/9/2024	1316	No	100	MW-1,MW-17	1082	257.2	0	None	No	0.0003117	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-4	1596	n/a	4/9/2024	1464	No	100	MW-1,MW-17	1082	257.2	0	None	No	0.0003117	Param Inter 1 of 2

Bedrock Control Limit Spring 2024

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas Printed 8/28/2024, 3:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Specific Conductance (umhos/cm)	**MW-6**	**1596**	**n/a**	**4/9/2024**	**4852**	**Yes**	**100**	**MW-1,MW-17**	**1082**	**257.2**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	MW-8	1596	n/a	4/9/2024	1467	No	100	MW-1,MW-17	1082	257.2	0	None	No	0.0003117	Param Inter 1 of 2
Sulfate (mg/L)	**MW-10**	**70.74**	**n/a**	**4/9/2024**	**121**	**Yes**	**27**	**MW-1,MW-17**	**42.57**	**14.09**	**3.704**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	MW-12	70.74	n/a	4/9/2024	6.43	No	27	MW-1,MW-17	42.57	14.09	3.704	None	No	0.0003117	Param Inter 1 of 2
Sulfate (mg/L)	MW-15	70.74	n/a	4/9/2024	17.2	No	27	MW-1,MW-17	42.57	14.09	3.704	None	No	0.0003117	Param Inter 1 of 2
Sulfate (mg/L)	MW-4	70.74	n/a	4/9/2024	50.6	No	27	MW-1,MW-17	42.57	14.09	3.704	None	No	0.0003117	Param Inter 1 of 2
Sulfate (mg/L)	**MW-6**	**70.74**	**n/a**	**4/9/2024**	**412**	**Yes**	**27**	**MW-1,MW-17**	**42.57**	**14.09**	**3.704**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	MW-8	70.74	n/a	4/9/2024	50.2	No	27	MW-1,MW-17	42.57	14.09	3.704	None	No	0.0003117	Param Inter 1 of 2

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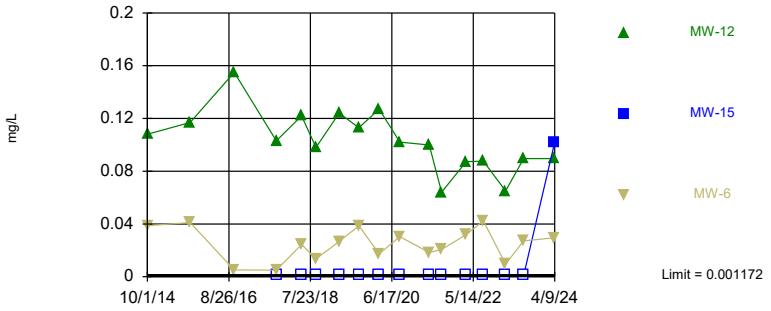
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-15, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.0009644, Std. Dev.=0.000104, n=34, 85.29% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 3 points to limit. Assumes 10 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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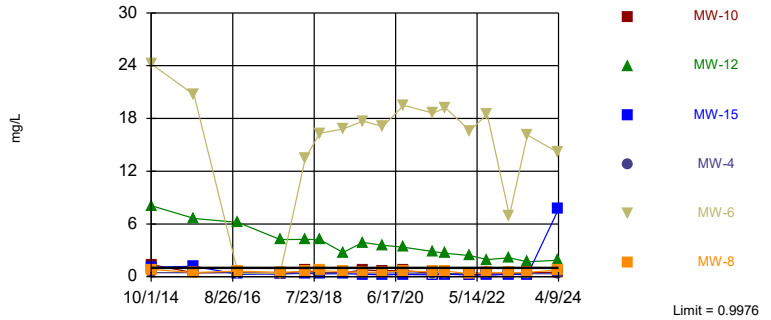
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-15, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.4022, Std. Dev.=0.2977, n=34, 2.941% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Boron Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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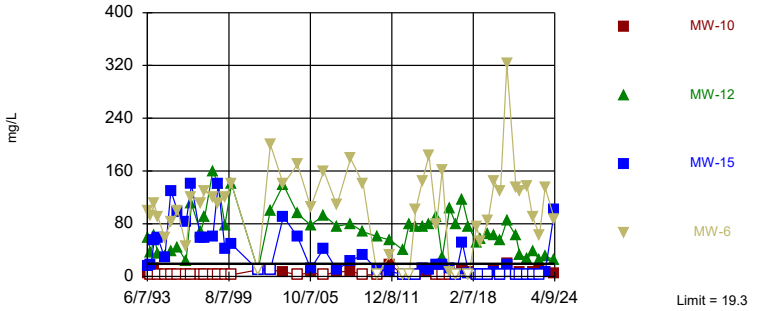
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-15, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=6.675, Std. Dev.=6.315, n=98, 54.08% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Chemical Oxygen Demand Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limi
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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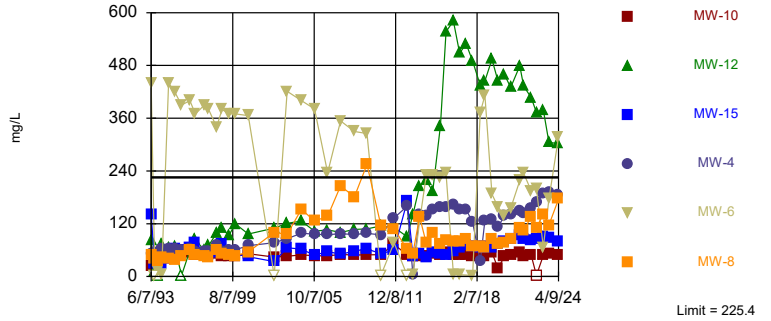
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=90.23, Std. Dev.=67.59, n=97. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Chloride Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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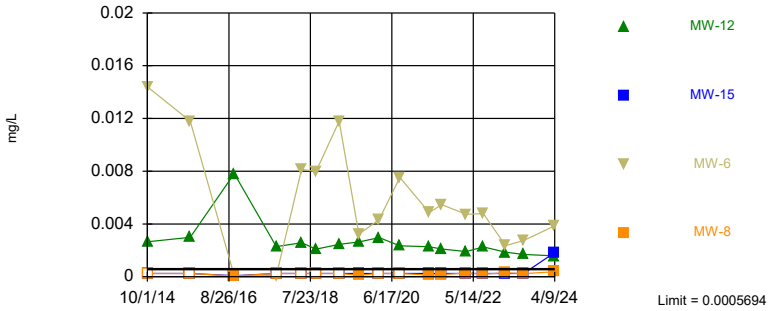
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-15, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.000284, Std. Dev.=0.0001427, n=34, 47.06% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Cobalt Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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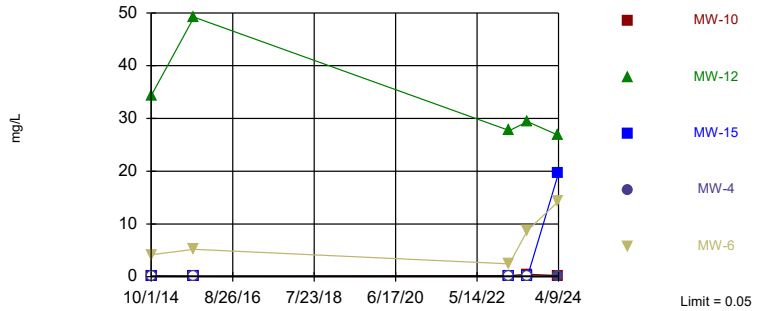
Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-12, MW-15, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.05, Std. Dev.=0, n=10, 100% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 5 points to limit. Assumes 8 future values. Kappa overridden to 2.

Constituent: Iron Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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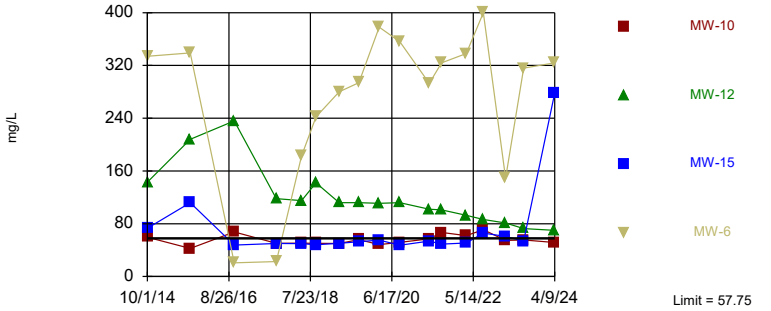
Exceeds Limit: MW-12, MW-15, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=39.21, Std. Dev.=9.271, n=34. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Magnesium Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spri
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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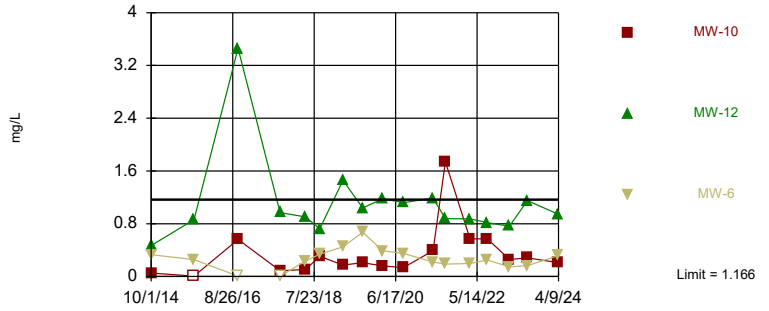
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.2597, Std. Dev.=0.453, n=34, 50% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 3 points to limit. Assumes 10 future values. Kappa overridden to 2.

Constituent: Manganese Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spri
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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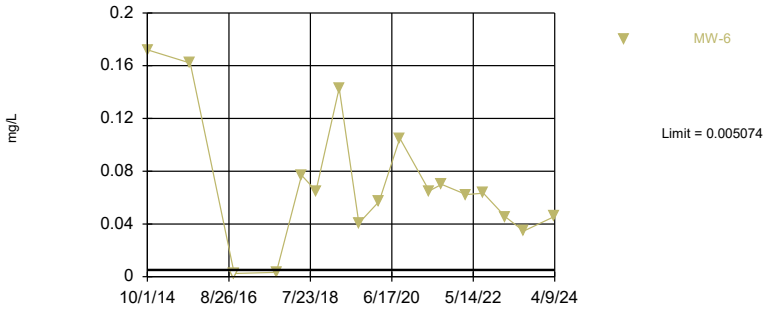
Hollow symbols indicate censored values.

Exceeds Limit: MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.00292, Std. Dev.=0.001077, n=32, 68.75% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Assumes 12 future values. Kappa overridden to 2.

Constituent: Nickel Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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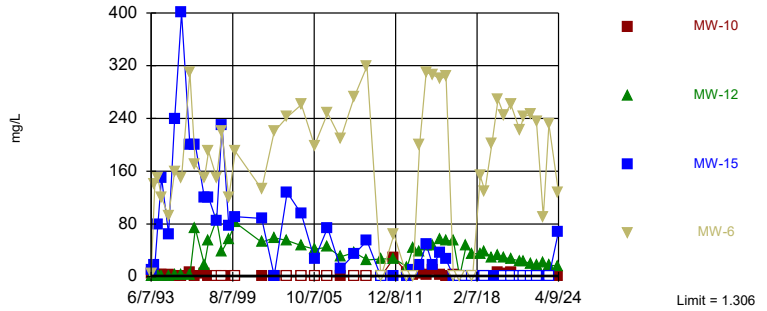
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-15, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.2658, Std. Dev.=0.5202, n=98, 84.69% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Nitrogen, Ammonia Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedro
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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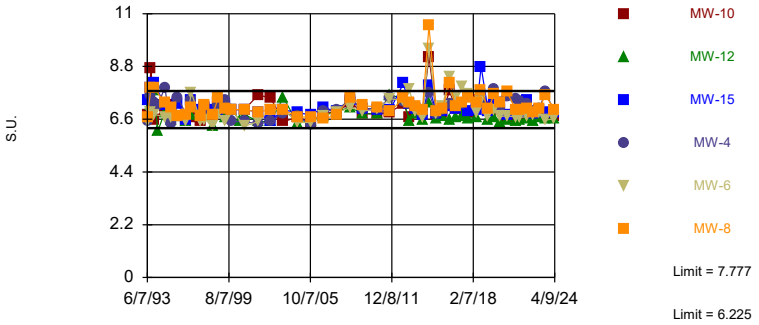
Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.001, Std. Dev.=0.3881, n=99. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: pH Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spring
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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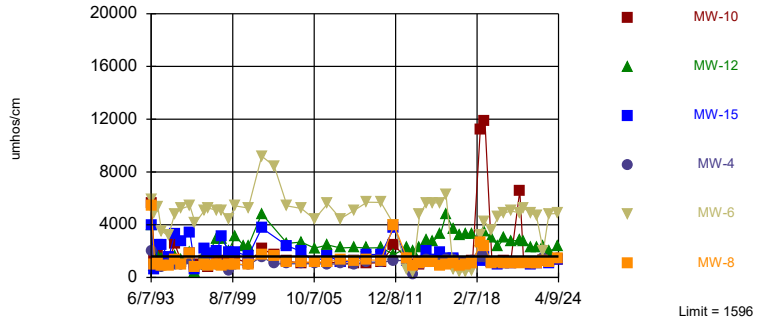
Exceeds Limit: MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=1082, Std. Dev.=257.2, n=100. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

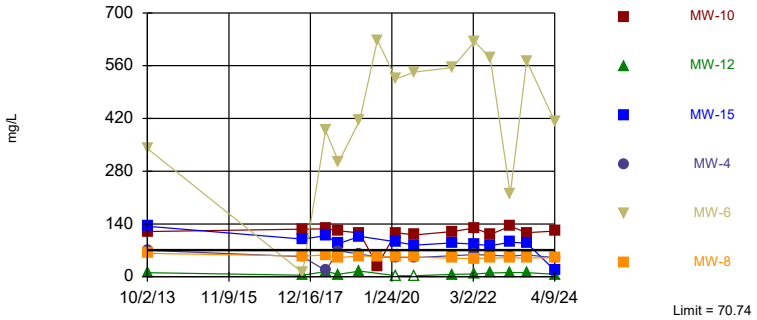
Constituent: Specific Conductance Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Be
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=42.57, Std. Dev.=14.09, n=27, 3.704% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Sulfate Analysis Run 8/28/2024 3:06 PM View: 2024AWQR - Control Limit-Bedrock-Spring

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Unconsolidated Control Limit Fall 2024

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas Printed 8/28/2024, 3:43 PM

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-11**	**0.03017**	**n/a**	**7/16/2024**	**0.0575**	**Yes**	**36**	**MW-18,MW-2**	**0.006786**	**0.01169**	**47.22**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Arsenic (mg/L)	**MW-13**	**0.03017**	**n/a**	**7/16/2024**	**0.0952**	**Yes**	**36**	**MW-18,MW-2**	**0.006786**	**0.01169**	**47.22**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Arsenic (mg/L)	MW-14	0.03017	n/a	7/16/2024	0.000948J	No	36	MW-18,MW-2	0.006786	0.01169	47.22	None	No	0.0003117	Param Inter 1 of 2
Arsenic (mg/L)	MW-16	0.03017	n/a	7/16/2024	0.00067J	No	36	MW-18,MW-2	0.006786	0.01169	47.22	None	No	0.0003117	Param Inter 1 of 2
Arsenic (mg/L)	MW-3	0.03017	n/a	7/16/2024	0.0272	No	36	MW-18,MW-2	0.006786	0.01169	47.22	None	No	0.0003117	Param Inter 1 of 2
Arsenic (mg/L)	**MW-5**	**0.03017**	**n/a**	**7/16/2024**	**0.051**	**Yes**	**36**	**MW-18,MW-2**	**0.006786**	**0.01169**	**47.22**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Arsenic (mg/L)	MW-7	0.03017	n/a	7/16/2024	0.0297	No	36	MW-18,MW-2	0.006786	0.01169	47.22	None	No	0.0003117	Param Inter 1 of 2
Arsenic (mg/L)	**MW-9**	**0.03017**	**n/a**	**7/16/2024**	**0.0485**	**Yes**	**36**	**MW-18,MW-2**	**0.006786**	**0.01169**	**47.22**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-11**	**0.4426**	**n/a**	**7/16/2024**	**1.74**	**Yes**	**36**	**MW-18,MW-2**	**0.2961**	**0.07324**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-13**	**0.4426**	**n/a**	**7/16/2024**	**9.79**	**Yes**	**36**	**MW-18,MW-2**	**0.2961**	**0.07324**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-14**	**0.4426**	**n/a**	**7/16/2024**	**1.54**	**Yes**	**36**	**MW-18,MW-2**	**0.2961**	**0.07324**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	MW-16	0.4426	n/a	7/16/2024	0.264	No	36	MW-18,MW-2	0.2961	0.07324	0	None	No	0.0003117	Param Inter 1 of 2
Boron (mg/L)	**MW-3**	**0.4426**	**n/a**	**7/16/2024**	**3.81**	**Yes**	**36**	**MW-18,MW-2**	**0.2961**	**0.07324**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-5**	**0.4426**	**n/a**	**7/16/2024**	**22.4**	**Yes**	**36**	**MW-18,MW-2**	**0.2961**	**0.07324**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-7**	**0.4426**	**n/a**	**7/16/2024**	**31.6**	**Yes**	**36**	**MW-18,MW-2**	**0.2961**	**0.07324**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-9**	**0.4426**	**n/a**	**7/16/2024**	**12.9**	**Yes**	**36**	**MW-18,MW-2**	**0.2961**	**0.07324**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	**MW-11**	**49.75**	**n/a**	**7/16/2024**	**122**	**Yes**	**130**	**MW-18,MW-2**	**20.08**	**14.83**	**11.54**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	**MW-13**	**49.75**	**n/a**	**7/16/2024**	**114**	**Yes**	**130**	**MW-18,MW-2**	**20.08**	**14.83**	**11.54**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	MW-14	49.75	n/a	7/16/2024	22.8	No	130	MW-18,MW-2	20.08	14.83	11.54	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-16	49.75	n/a	7/16/2024	12.6	No	130	MW-18,MW-2	20.08	14.83	11.54	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-3	49.75	n/a	7/16/2024	43.8	No	130	MW-18,MW-2	20.08	14.83	11.54	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	**MW-5**	**49.75**	**n/a**	**7/16/2024**	**217**	**Yes**	**130**	**MW-18,MW-2**	**20.08**	**14.83**	**11.54**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	**MW-7**	**49.75**	**n/a**	**7/16/2024**	**305**	**Yes**	**130**	**MW-18,MW-2**	**20.08**	**14.83**	**11.54**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	**MW-9**	**49.75**	**n/a**	**7/16/2024**	**280**	**Yes**	**130**	**MW-18,MW-2**	**20.08**	**14.83**	**11.54**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-11**	**73.28**	**n/a**	**7/16/2024**	**293**	**Yes**	**130**	**MW-18,MW-2**	**26.87**	**23.2**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-13	73.28	n/a	7/16/2024	64.6	No	130	MW-18,MW-2	26.87	23.2	0	None	No	0.0003117	Param Inter 1 of 2
Chloride (mg/L)	**MW-14**	**73.28**	**n/a**	**7/16/2024**	**357**	**Yes**	**130**	**MW-18,MW-2**	**26.87**	**23.2**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-16	73.28	n/a	7/16/2024	68.3	No	130	MW-18,MW-2	26.87	23.2	0	None	No	0.0003117	Param Inter 1 of 2
Chloride (mg/L)	**MW-3**	**73.28**	**n/a**	**7/16/2024**	**298**	**Yes**	**130**	**MW-18,MW-2**	**26.87**	**23.2**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-5**	**73.28**	**n/a**	**7/16/2024**	**192**	**Yes**	**130**	**MW-18,MW-2**	**26.87**	**23.2**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	**MW-7**	**73.28**	**n/a**	**7/16/2024**	**195**	**Yes**	**130**	**MW-18,MW-2**	**26.87**	**23.2**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-9	73.28	n/a	7/16/2024	38.9	No	130	MW-18,MW-2	26.87	23.2	0	None	No	0.0003117	Param Inter 1 of 2
Cobalt (mg/L)	**MW-11**	**0.004364**	**n/a**	**7/16/2024**	**0.01**	**Yes**	**36**	**MW-18,MW-2**	**0.001445**	**0.00146**	**11.11**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	MW-13	0.004364	n/a	7/16/2024	0.00239	No	36	MW-18,MW-2	0.001445	0.00146	11.11	None	No	0.0003117	Param Inter 1 of 2
Cobalt (mg/L)	MW-14	0.004364	n/a	7/16/2024	0.00107	No	36	MW-18,MW-2	0.001445	0.00146	11.11	None	No	0.0003117	Param Inter 1 of 2
Cobalt (mg/L)	MW-3	0.004364	n/a	7/16/2024	0.000835	No	36	MW-18,MW-2	0.001445	0.00146	11.11	None	No	0.0003117	Param Inter 1 of 2
Cobalt (mg/L)	**MW-5**	**0.004364**	**n/a**	**7/16/2024**	**0.013**	**Yes**	**36**	**MW-18,MW-2**	**0.001445**	**0.00146**	**11.11**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	MW-7	0.004364	n/a	7/16/2024	0.0042	No	36	MW-18,MW-2	0.001445	0.00146	11.11	None	No	0.0003117	Param Inter 1 of 2
Cobalt (mg/L)	MW-9	0.004364	n/a	7/16/2024	0.00349J	No	36	MW-18,MW-2	0.001445	0.00146	11.11	None	No	0.0003117	Param Inter 1 of 2
Iron (mg/L)	**MW-11**	**1.964**	**n/a**	**7/16/2024**	**63.6**	**Yes**	**12**	**MW-18,MW-2**	**0.5455**	**0.7094**	**33.33**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	**MW-13**	**1.964**	**n/a**	**7/16/2024**	**29.2**	**Yes**	**12**	**MW-18,MW-2**	**0.5455**	**0.7094**	**33.33**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	**MW-3**	**1.964**	**n/a**	**7/16/2024**	**42.7**	**Yes**	**12**	**MW-18,MW-2**	**0.5455**	**0.7094**	**33.33**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	**MW-5**	**1.964**	**n/a**	**7/16/2024**	**39.9**	**Yes**	**12**	**MW-18,MW-2**	**0.5455**	**0.7094**	**33.33**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	**MW-7**	**1.964**	**n/a**	**7/16/2024**	**11.1**	**Yes**	**12**	**MW-18,MW-2**	**0.5455**	**0.7094**	**33.33**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	MW-9	1.964	n/a	7/16/2024	0.0497J	No	12	MW-18,MW-2	0.5455	0.7094	33.33	None	No	0.0003117	Param Inter 1 of 2
Magnesium (mg/L)	**MW-11**	**38.09**	**n/a**	**7/16/2024**	**95.4**	**Yes**	**36**	**MW-18,MW-2**	**30.36**	**3.866**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-13**	**38.09**	**n/a**	**7/16/2024**	**263**	**Yes**	**36**	**MW-18,MW-2**	**30.36**	**3.866**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-14**	**38.09**	**n/a**	**7/16/2024**	**102**	**Yes**	**36**	**MW-18,MW-2**	**30.36**	**3.866**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-3**	**38.09**	**n/a**	**7/16/2024**	**84.9**	**Yes**	**36**	**MW-18,MW-2**	**30.36**	**3.866**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-5**	**38.09**	**n/a**	**7/16/2024**	**514**	**Yes**	**36**	**MW-18,MW-2**	**30.36**	**3.866**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**

Unconsolidated Control Limit Fall 2024

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas Printed 8/28/2024, 3:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Magnesium (mg/L)	**MW-7**	**38.09**	**n/a**	**7/16/2024**	**240**	**Yes**	**36**	**MW-18,MW-2**	**30.36**	**3.866**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-9**	**38.09**	**n/a**	**7/16/2024**	**251**	**Yes**	**36**	**MW-18,MW-2**	**30.36**	**3.866**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	**MW-11**	**1.128**	**n/a**	**7/16/2024**	**1.3**	**Yes**	**36**	**MW-18,MW-2**	**0.465**	**0.3317**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	**MW-13**	**1.128**	**n/a**	**7/16/2024**	**1.71**	**Yes**	**36**	**MW-18,MW-2**	**0.465**	**0.3317**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	**MW-14**	**1.128**	**n/a**	**7/16/2024**	**1.14**	**Yes**	**36**	**MW-18,MW-2**	**0.465**	**0.3317**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	**MW-3**	**1.128**	**n/a**	**7/16/2024**	**5.69**	**Yes**	**36**	**MW-18,MW-2**	**0.465**	**0.3317**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	**MW-5**	**1.128**	**n/a**	**7/16/2024**	**2.2**	**Yes**	**36**	**MW-18,MW-2**	**0.465**	**0.3317**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	MW-7	1.128	n/a	7/16/2024	0.709	No	36	MW-18,MW-2	0.465	0.3317	0	None	No	0.0003117	Param Inter 1 of 2
Manganese (mg/L)	**MW-9**	**1.128**	**n/a**	**7/16/2024**	**1.13**	**Yes**	**36**	**MW-18,MW-2**	**0.465**	**0.3317**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-11**	**5.367**	**n/a**	**7/16/2024**	**26.1**	**Yes**	**130**	**MW-18,MW-2**	**1.965**	**1.701**	**16.92**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-13**	**5.367**	**n/a**	**7/16/2024**	**59.3**	**Yes**	**130**	**MW-18,MW-2**	**1.965**	**1.701**	**16.92**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-14**	**5.367**	**n/a**	**7/16/2024**	**11.5**	**Yes**	**130**	**MW-18,MW-2**	**1.965**	**1.701**	**16.92**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	MW-3	5.367	n/a	7/16/2024	3.08	No	130	MW-18,MW-2	1.965	1.701	16.92	None	No	0.0003117	Param Inter 1 of 2
Nitrogen, Ammonia (mg/L)	**MW-5**	**5.367**	**n/a**	**7/16/2024**	**125**	**Yes**	**130**	**MW-18,MW-2**	**1.965**	**1.701**	**16.92**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-7**	**5.367**	**n/a**	**7/16/2024**	**572**	**Yes**	**130**	**MW-18,MW-2**	**1.965**	**1.701**	**16.92**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-9**	**5.367**	**n/a**	**7/16/2024**	**389**	**Yes**	**130**	**MW-18,MW-2**	**1.965**	**1.701**	**16.92**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
pH (S.U.)	MW-11	7.877	6.212	7/16/2024	6.51	No	130	MW-18,MW-2	7.045	0.4162	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-13	7.877	6.212	7/16/2024	6.81	No	130	MW-18,MW-2	7.045	0.4162	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-14	7.877	6.212	7/16/2024	6.72	No	130	MW-18,MW-2	7.045	0.4162	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-16	7.877	6.212	7/16/2024	7.07	No	130	MW-18,MW-2	7.045	0.4162	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-3	7.877	6.212	7/16/2024	6.72	No	130	MW-18,MW-2	7.045	0.4162	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-5	7.877	6.212	7/16/2024	6.72	No	130	MW-18,MW-2	7.045	0.4162	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-7	7.877	6.212	7/16/2024	7.1	No	130	MW-18,MW-2	7.045	0.4162	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-9	7.877	6.212	7/16/2024	6.9	No	130	MW-18,MW-2	7.045	0.4162	0	None	No	0.0001558	Param Inter 1 of 2
Specific Conductance (umhos/cm)	**MW-11**	**1418**	**n/a**	**7/16/2024**	**2446**	**Yes**	**130**	**MW-18,MW-2**	**924.6**	**246.7**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-13**	**1418**	**n/a**	**7/16/2024**	**3480**	**Yes**	**130**	**MW-18,MW-2**	**924.6**	**246.7**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-14**	**1418**	**n/a**	**7/16/2024**	**2324**	**Yes**	**130**	**MW-18,MW-2**	**924.6**	**246.7**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	MW-16	1418	n/a	7/16/2024	938.5	No	130	MW-18,MW-2	924.6	246.7	0	None	No	0.0003117	Param Inter 1 of 2
Specific Conductance (umhos/cm)	**MW-3**	**1418**	**n/a**	**7/16/2024**	**2367**	**Yes**	**130**	**MW-18,MW-2**	**924.6**	**246.7**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-5**	**1418**	**n/a**	**7/16/2024**	**6040**	**Yes**	**130**	**MW-18,MW-2**	**924.6**	**246.7**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-7**	**1418**	**n/a**	**7/16/2024**	**7002**	**Yes**	**130**	**MW-18,MW-2**	**924.6**	**246.7**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	**MW-9**	**1418**	**n/a**	**7/16/2024**	**6097**	**Yes**	**130**	**MW-18,MW-2**	**924.6**	**246.7**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MW-14**	**78.62**	**n/a**	**7/16/2024**	**206**	**Yes**	**30**	**MW-18,MW-2**	**37.32**	**20.65**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	MW-16	78.62	n/a	7/16/2024	49.5	No	30	MW-18,MW-2	37.32	20.65	0	None	No	0.0003117	Param Inter 1 of 2
Sulfate (mg/L)	**MW-5**	**78.62**	**n/a**	**7/16/2024**	**840**	**Yes**	**30**	**MW-18,MW-2**	**37.32**	**20.65**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MW-9**	**78.62**	**n/a**	**7/16/2024**	**354**	**Yes**	**30**	**MW-18,MW-2**	**37.32**	**20.65**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**

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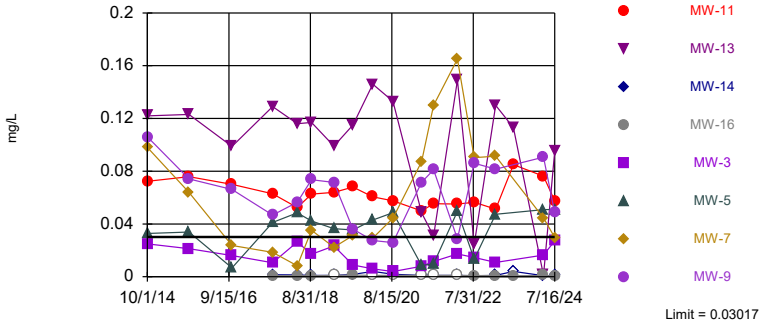
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-13, MW-5, MW -9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.006786, Std. Dev.=0.01169, n=36, 47.22% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unconsol-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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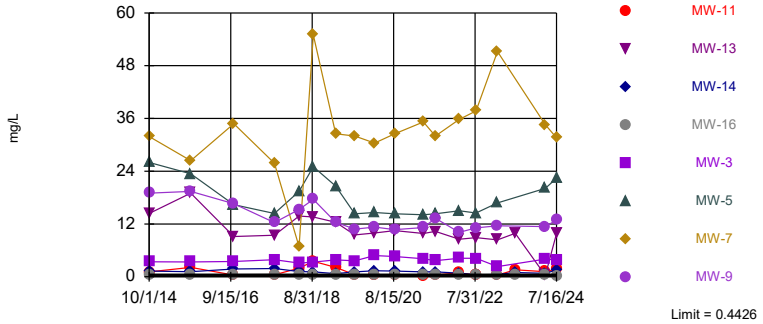
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-13, MW-14, MW-3, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.2961, Std. Dev.=0.07324, n=36. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: Boron Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unconsol-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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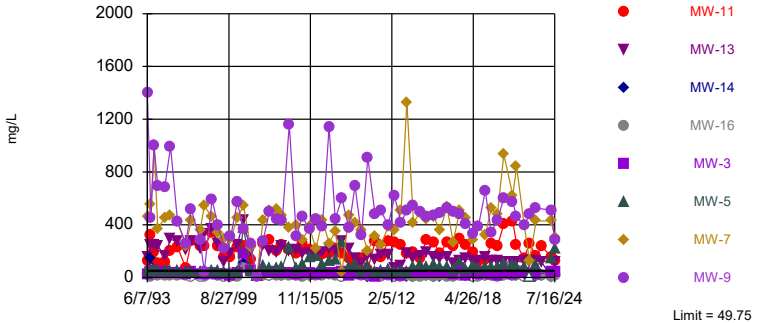
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-13, MW-5, MW -7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=20.08, Std. Dev.=14.83, n=130, 11.54% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: Chemical Oxygen Demand Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limi
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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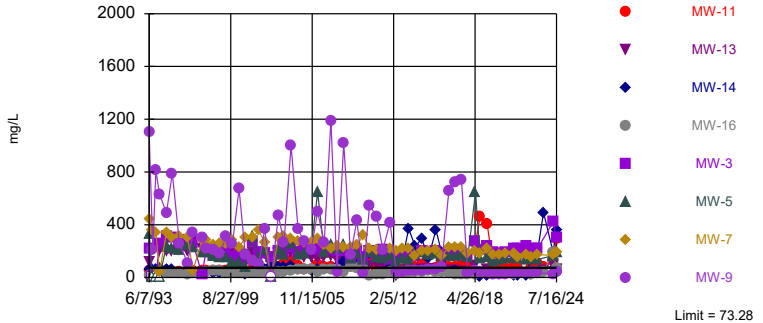
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-14, MW-3, MW -5, MW-7

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=26.87, Std. Dev.=23.2, n=130. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: Chloride Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unconsol-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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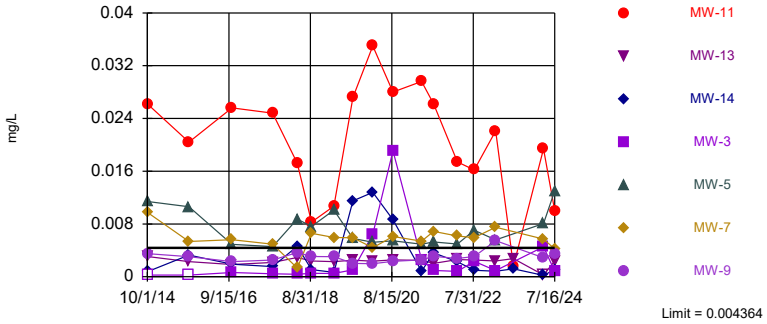
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-5

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.001445, Std. Dev.=0.00146, n=36, 11.11% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 7 points to limit. Assumes 6 future values. Kappa overridden to 2.

Constituent: Cobalt Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unconsol-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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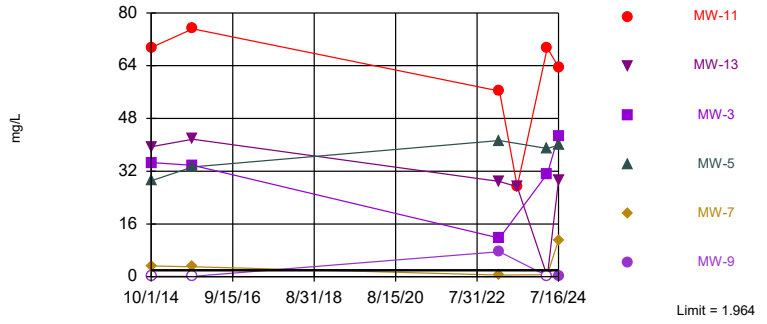
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-13, MW-3, MW-5, MW-7

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.5455, Std. Dev.=0.7094, n=12, 33.33% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Iron Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unconsol-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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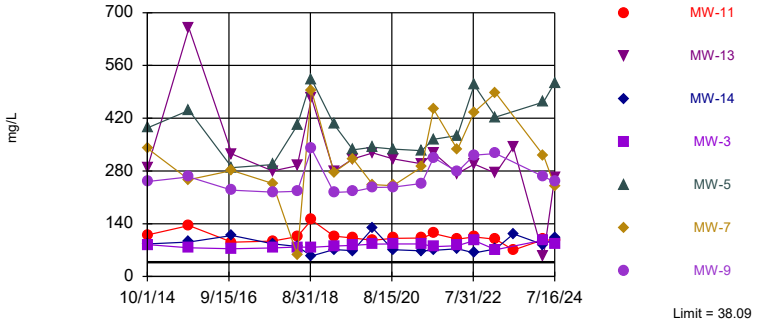
Exceeds Limit: MW-11, MW-13, MW-14, MW-3, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=30.36, Std. Dev.=3.866, n=36. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 7 points to limit. Assumes 6 future values. Kappa overridden to 2.

Constituent: Magnesium Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unconsol-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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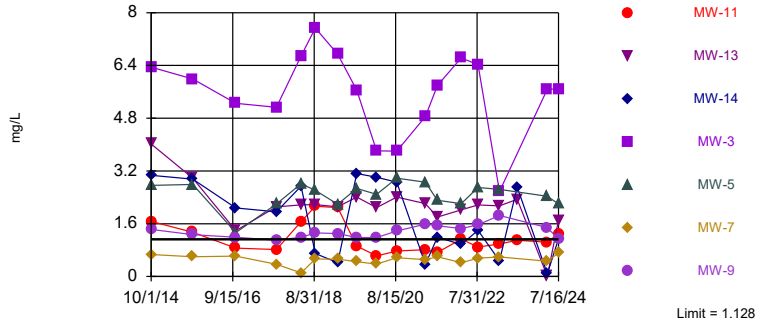
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-13, MW-14, MW-3, MW-5, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.465, Std. Dev.=0.3317, n=36. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 7 points to limit. Assumes 6 future values. Kappa overridden to 2.

Constituent: Manganese Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unconsol-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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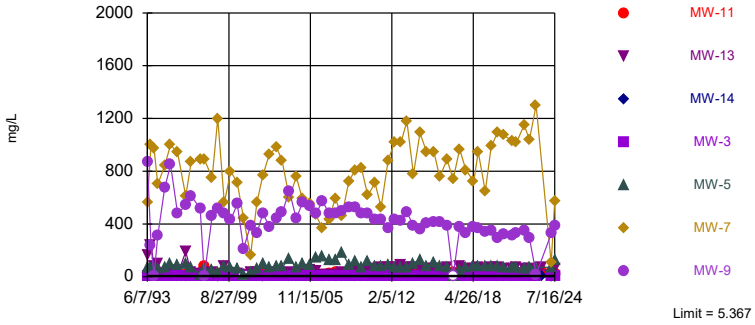
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-13, MW-14, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=1.965, Std. Dev.=1.701, n=130, 16.92% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 7 points to limit. Assumes 6 future values. Kappa overridden to 2.

Constituent: Nitrogen, Ammonia Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unco
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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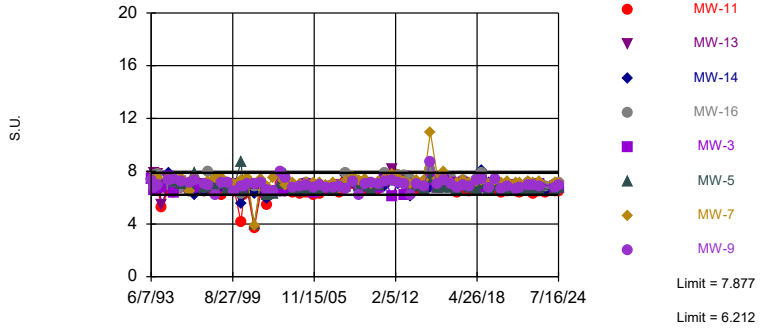
Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.045, Std. Dev.=0.4162, n=130. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: pH Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unconsol-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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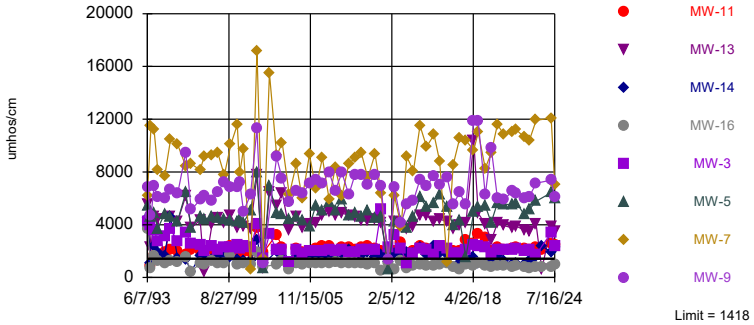
Exceeds Limit: MW-11, MW-13, MW-14, MW-3, MW-5, MW-7, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=924.6, Std. Dev.=246.7, n=130. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 8 points to limit. Assumes 5 future values. Kappa overridden to 2.

Constituent: Specific Conductance Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Un
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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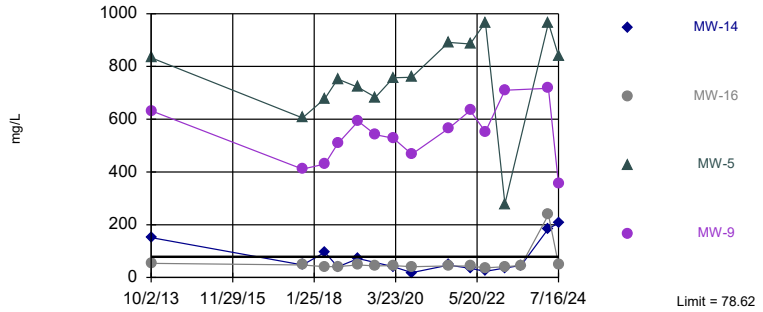
Exceeds Limit: MW-14, MW-5, MW-9

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=37.32, Std. Dev.=20.65, n=30. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Sulfate Analysis Run 8/28/2024 3:41 PM View: 2024AWQR - Control Limit-Unconsol-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Bedrock Control Limit Fall 2024

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas Printed 8/28/2024, 3:28 PM

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-10	0.001169	n/a	7/16/2024	0.000736J	No	36	MW-1,MW-17	0.0009663	0.0001013	86.11	None	No	0.0003117	Param Inter 1 of 2
Arsenic (mg/L)	**MW-12**	**0.001169**	**n/a**	**7/16/2024**	**0.0704**	**Yes**	**36**	**MW-1,MW-17**	**0.0009663**	**0.0001013**	**86.11**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Arsenic (mg/L)	**MW-6**	**0.001169**	**n/a**	**7/16/2024**	**0.0238**	**Yes**	**36**	**MW-1,MW-17**	**0.0009663**	**0.0001013**	**86.11**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-10**	**1.128**	**n/a**	**7/16/2024**	**1.67**	**Yes**	**36**	**MW-1,MW-17**	**0.4253**	**0.3514**	**2.778**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	**MW-12**	**1.128**	**n/a**	**7/16/2024**	**2.41**	**Yes**	**36**	**MW-1,MW-17**	**0.4253**	**0.3514**	**2.778**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	MW-15	1.128	n/a	7/16/2024	0.215	No	36	MW-1,MW-17	0.4253	0.3514	2.778	None	No	0.0003117	Param Inter 1 of 2
Boron (mg/L)	MW-4	1.128	n/a	7/16/2024	0.331	No	36	MW-1,MW-17	0.4253	0.3514	2.778	None	No	0.0003117	Param Inter 1 of 2
Boron (mg/L)	**MW-6**	**1.128**	**n/a**	**7/16/2024**	**10**	**Yes**	**36**	**MW-1,MW-17**	**0.4253**	**0.3514**	**2.778**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Boron (mg/L)	MW-8	1.128	n/a	7/16/2024	0.358	No	36	MW-1,MW-17	0.4253	0.3514	2.778	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-10	19.18	n/a	7/16/2024	18.2	No	100	MW-1,MW-17	6.647	6.266	54	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	**MW-12**	**19.18**	**n/a**	**7/16/2024**	**28.7**	**Yes**	**100**	**MW-1,MW-17**	**6.647**	**6.266**	**54**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	MW-15	19.18	n/a	7/16/2024	11.6	No	100	MW-1,MW-17	6.647	6.266	54	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	MW-4	19.18	n/a	7/16/2024	5.455	No	100	MW-1,MW-17	6.647	6.266	54	None	No	0.0003117	Param Inter 1 of 2
Chemical Oxygen Demand (mg/L)	**MW-6**	**19.18**	**n/a**	**7/16/2024**	**46.9**	**Yes**	**100**	**MW-1,MW-17**	**6.647**	**6.266**	**54**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chemical Oxygen Demand (mg/L)	MW-8	19.18	n/a	7/16/2024	6.31	No	100	MW-1,MW-17	6.647	6.266	54	None	No	0.0003117	Param Inter 1 of 2
Chloride (mg/L)	MW-10	226.1	n/a	7/16/2024	76.3	No	99	MW-1,MW-17	90.98	67.58	0	None	No	0.0003117	Param Inter 1 of 2
Chloride (mg/L)	**MW-12**	**226.1**	**n/a**	**7/16/2024**	**298**	**Yes**	**99**	**MW-1,MW-17**	**90.98**	**67.58**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-15	226.1	n/a	7/16/2024	90.1	No	99	MW-1,MW-17	90.98	67.58	0	None	No	0.0003117	Param Inter 1 of 2
Chloride (mg/L)	MW-4	226.1	n/a	7/16/2024	178.5	No	99	MW-1,MW-17	90.98	67.58	0	None	No	0.0003117	Param Inter 1 of 2
Chloride (mg/L)	**MW-6**	**226.1**	**n/a**	**7/16/2024**	**385**	**Yes**	**99**	**MW-1,MW-17**	**90.98**	**67.58**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-8	226.1	n/a	7/16/2024	146	No	99	MW-1,MW-17	90.98	67.58	0	None	No	0.0003117	Param Inter 1 of 2
Cobalt (mg/L)	**MW-10**	**0.0005597**	**n/a**	**7/16/2024**	**0.00104**	**Yes**	**36**	**MW-1,MW-17**	**0.0002821**	**0.0001388**	**50**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	**MW-12**	**0.0005597**	**n/a**	**7/16/2024**	**0.00175**	**Yes**	**36**	**MW-1,MW-17**	**0.0002821**	**0.0001388**	**50**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	**MW-6**	**0.0005597**	**n/a**	**7/16/2024**	**0.00143**	**Yes**	**36**	**MW-1,MW-17**	**0.0002821**	**0.0001388**	**50**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Cobalt (mg/L)	MW-8	0.0005597	n/a	7/16/2024	0.000225J	No	36	MW-1,MW-17	0.0002821	0.0001388	50	None	No	0.0003117	Param Inter 1 of 2
Iron (mg/L)	**MW-10**	**0.05**	**n/a**	**7/16/2024**	**1.4**	**Yes**	**12**	**MW-1,MW-17**	**0.05**	**0**	**100**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	**MW-12**	**0.05**	**n/a**	**7/16/2024**	**25**	**Yes**	**12**	**MW-1,MW-17**	**0.05**	**0**	**100**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Iron (mg/L)	**MW-6**	**0.05**	**n/a**	**7/16/2024**	**11.3**	**Yes**	**12**	**MW-1,MW-17**	**0.05**	**0**	**100**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-10**	**57.93**	**n/a**	**7/16/2024**	**67.6**	**Yes**	**36**	**MW-1,MW-17**	**39.23**	**9.349**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	**MW-12**	**57.93**	**n/a**	**7/16/2024**	**77.8**	**Yes**	**36**	**MW-1,MW-17**	**39.23**	**9.349**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Magnesium (mg/L)	MW-15	57.93	n/a	7/16/2024	51.7	No	36	MW-1,MW-17	39.23	9.349	0	None	No	0.0003117	Param Inter 1 of 2
Magnesium (mg/L)	**MW-6**	**57.93**	**n/a**	**7/16/2024**	**159**	**Yes**	**36**	**MW-1,MW-17**	**39.23**	**9.349**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Manganese (mg/L)	MW-10	1.134	n/a	7/16/2024	0.279	No	36	MW-1,MW-17	0.2485	0.4425	50	None	No	0.0003117	Param Inter 1 of 2
Manganese (mg/L)	MW-12	1.134	n/a	7/16/2024	0.93	No	36	MW-1,MW-17	0.2485	0.4425	50	None	No	0.0003117	Param Inter 1 of 2
Manganese (mg/L)	MW-6	1.134	n/a	7/16/2024	0.244	No	36	MW-1,MW-17	0.2485	0.4425	50	None	No	0.0003117	Param Inter 1 of 2
Nickel (mg/L)	MW-6	0.004992	n/a	7/16/2024	0.018J	No	34	MW-1,MW-17	0.002895	0.001049	70.59	None	No	0.0003117	Param Inter 1 of 2
Nitrogen, Ammonia (mg/L)	**MW-10**	**1.293**	**n/a**	**7/16/2024**	**9.38**	**Yes**	**100**	**MW-1,MW-17**	**0.2625**	**0.5155**	**85**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-12**	**1.293**	**n/a**	**7/16/2024**	**17.7**	**Yes**	**100**	**MW-1,MW-17**	**0.2625**	**0.5155**	**85**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Nitrogen, Ammonia (mg/L)	**MW-6**	**1.293**	**n/a**	**7/16/2024**	**167**	**Yes**	**100**	**MW-1,MW-17**	**0.2625**	**0.5155**	**85**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
pH (S.U.)	MW-10	7.77	6.232	7/16/2024	6.93	No	101	MW-1,MW-17	7.001	0.3845	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-12	7.77	6.232	7/16/2024	6.65	No	101	MW-1,MW-17	7.001	0.3845	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-15	7.77	6.232	7/16/2024	6.96	No	101	MW-1,MW-17	7.001	0.3845	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-4	7.77	6.232	7/16/2024	6.92	No	101	MW-1,MW-17	7.001	0.3845	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-6	7.77	6.232	7/16/2024	6.74	No	101	MW-1,MW-17	7.001	0.3845	0	None	No	0.0001558	Param Inter 1 of 2
pH (S.U.)	MW-8	7.77	6.232	7/16/2024	7.1	No	101	MW-1,MW-17	7.001	0.3845	0	None	No	0.0001558	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-10	1597	n/a	7/16/2024	1405	No	102	MW-1,MW-17	1083	257.3	0	None	No	0.0003117	Param Inter 1 of 2
Specific Conductance (umhos/cm)	**MW-12**	**1597**	**n/a**	**7/16/2024**	**2072**	**Yes**	**102**	**MW-1,MW-17**	**1083**	**257.3**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Specific Conductance (umhos/cm)	MW-15	1597	n/a	7/16/2024	1129	No	102	MW-1,MW-17	1083	257.3	0	None	No	0.0003117	Param Inter 1 of 2
Specific Conductance (umhos/cm)	MW-4	1597	n/a	7/16/2024	1290	No	102	MW-1,MW-17	1083	257.3	0	None	No	0.0003117	Param Inter 1 of 2
Specific Conductance (umhos/cm)	**MW-6**	**1597**	**n/a**	**7/16/2024**	**3588**	**Yes**	**102**	**MW-1,MW-17**	**1083**	**257.3**	**0**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**

Bedrock Control Limit Fall 2024

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas Printed 8/28/2024, 3:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Specific Conductance (umhos/cm)	MW-8	1597	n/a	7/16/2024	1215	No	102	MW-1,MW-17	1083	257.3	0	None	No	0.0003117	Param Inter 1 of 2
Sulfate (mg/L)	**MW-10**	**70.1**	**n/a**	**7/16/2024**	**94**	**Yes**	**29**	**MW-1,MW-17**	**42.53**	**13.79**	**3.448**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	MW-12	70.1	n/a	7/16/2024	23.2	No	29	MW-1,MW-17	42.53	13.79	3.448	None	No	0.0003117	Param Inter 1 of 2
Sulfate (mg/L)	**MW-15**	**70.1**	**n/a**	**7/16/2024**	**86.1**	**Yes**	**29**	**MW-1,MW-17**	**42.53**	**13.79**	**3.448**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	MW-4	70.1	n/a	7/16/2024	48.8	No	29	MW-1,MW-17	42.53	13.79	3.448	None	No	0.0003117	Param Inter 1 of 2
Sulfate (mg/L)	**MW-6**	**70.1**	**n/a**	**7/16/2024**	**293**	**Yes**	**29**	**MW-1,MW-17**	**42.53**	**13.79**	**3.448**	**None**	**No**	**0.0003117**	**Param Inter 1 of 2**
Sulfate (mg/L)	MW-8	70.1	n/a	7/16/2024	47.5	No	29	MW-1,MW-17	42.53	13.79	3.448	None	No	0.0003117	Param Inter 1 of 2

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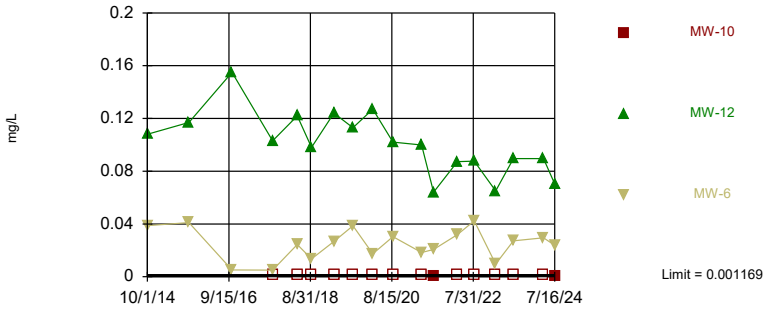
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.0009663, Std. Dev.=0.0001013, n=36, 86.11% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 3 points to limit. Assumes 10 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 8/28/2024 3:26 PM View: 2024AWQR - Control Limit-Bedrock-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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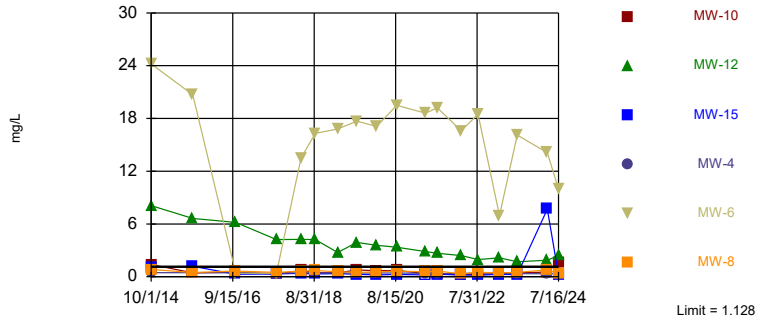
Exceeds Limit: MW-10, MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.4253, Std. Dev.=0.3514, n=36, 2.778% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Boron Analysis Run 8/28/2024 3:26 PM View: 2024AWQR - Control Limit-Bedrock-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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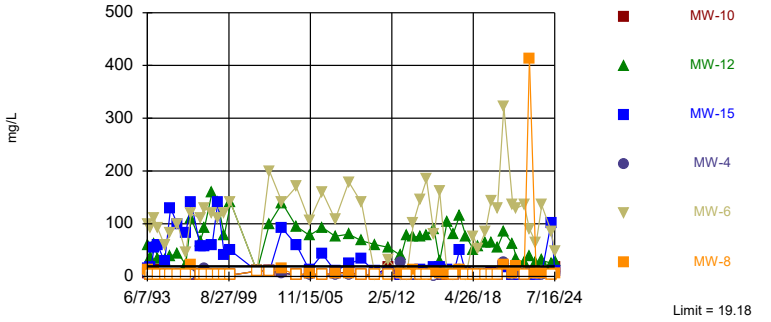
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=6.647, Std. Dev.=6.266, n=100, 54% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Chemical Oxygen Demand Analysis Run 8/28/2024 3:26 PM View: 2024AWQR - Control Limi
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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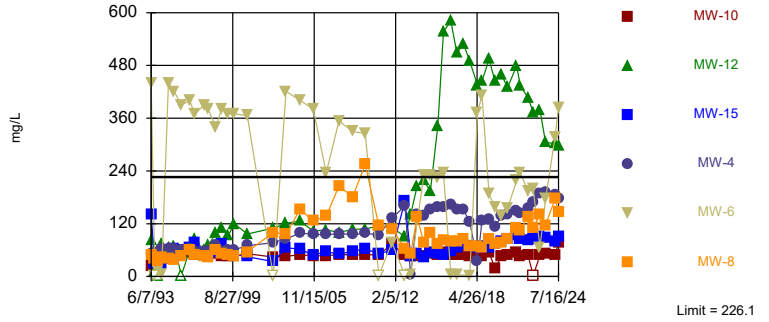
Hollow symbols indicate censored values.

Exceeds Limit: MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=90.98, Std. Dev.=67.58, n=99. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Chloride Analysis Run 8/28/2024 3:26 PM View: 2024AWQR - Control Limit-Bedrock-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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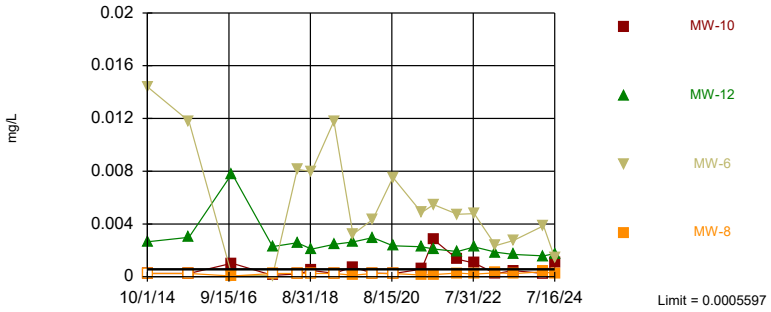
Exceeds Limit: MW-10, MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.0002821, Std. Dev.=0.0001388, n=36, 50% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Cobalt Analysis Run 8/28/2024 3:27 PM View: 2024AWQR - Control Limit-Bedrock-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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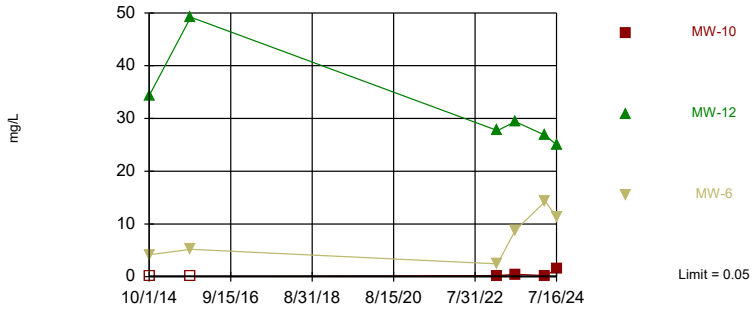
Exceeds Limit: MW-10, MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.05, Std. Dev.=0, n=12, 100% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 3 points to limit. Assumes 10 future values. Kappa overridden to 2.

Constituent: Iron Analysis Run 8/28/2024 3:27 PM View: 2024AWQR - Control Limit-Bedrock-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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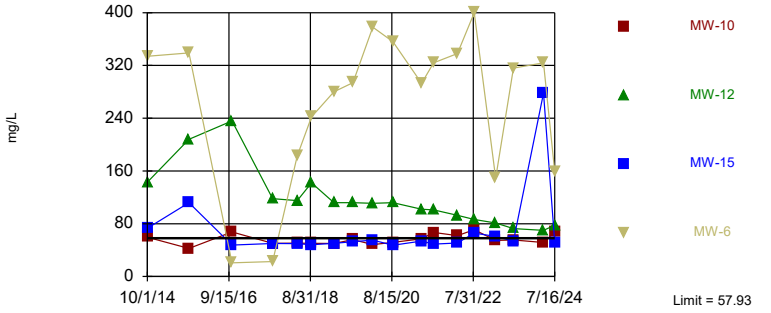
Exceeds Limit: MW-10, MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=39.23, Std. Dev.=9.349, n=36. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Magnesium Analysis Run 8/28/2024 3:27 PM View: 2024AWQR - Control Limit-Bedrock-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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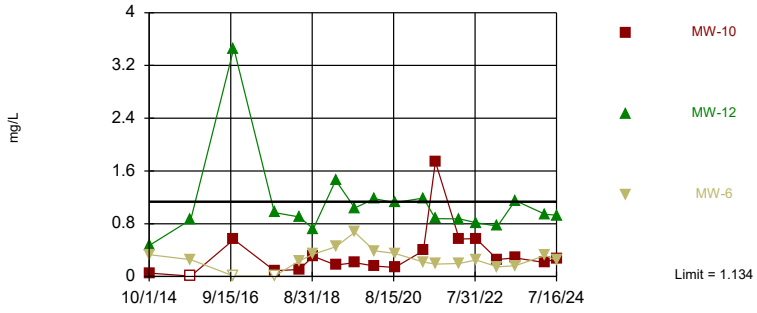
Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.2485, Std. Dev.=0.4425, n=36, 50% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 3 points to limit. Assumes 10 future values. Kappa overridden to 2.

Constituent: Manganese Analysis Run 8/28/2024 3:27 PM View: 2024AWQR - Control Limit-Bedrock-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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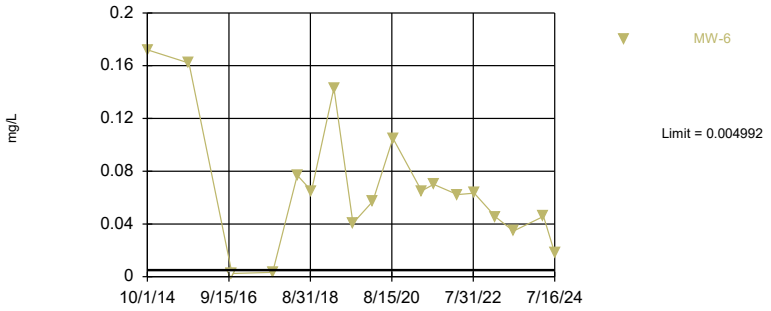
Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.002895, Std. Dev.=0.001049, n=34, 70.59% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Assumes 12 future values. Kappa overridden to 2.

Constituent: Nickel Analysis Run 8/28/2024 3:27 PM View: 2024AWQR - Control Limit-Bedrock-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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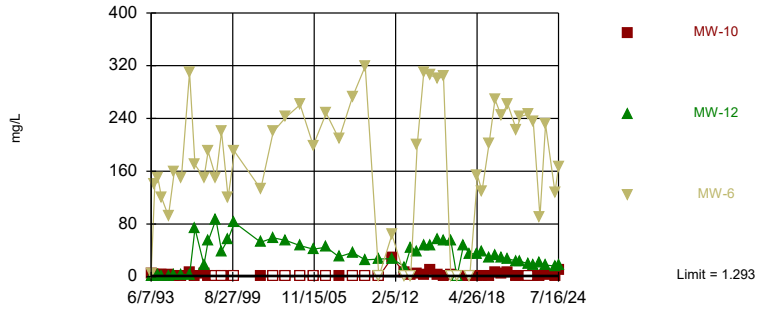
Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.2625, Std. Dev.=0.5155, n=100, 85% NDs (user selected parametric test despite non-detects). Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 3 points to limit. Assumes 10 future values. Kappa overridden to 2.

Constituent: Nitrogen, Ammonia Analysis Run 8/28/2024 3:27 PM View: 2024AWQR - Control Limit-Bedro
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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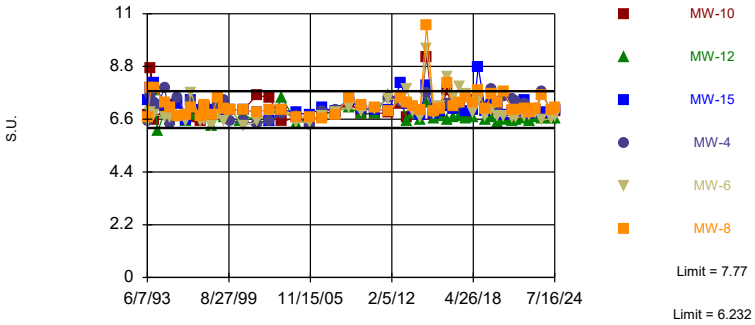
Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.001, Std. Dev.=0.3845, n=101. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: pH Analysis Run 8/28/2024 3:27 PM View: 2024AWQR - Control Limit-Bedrock-Fall
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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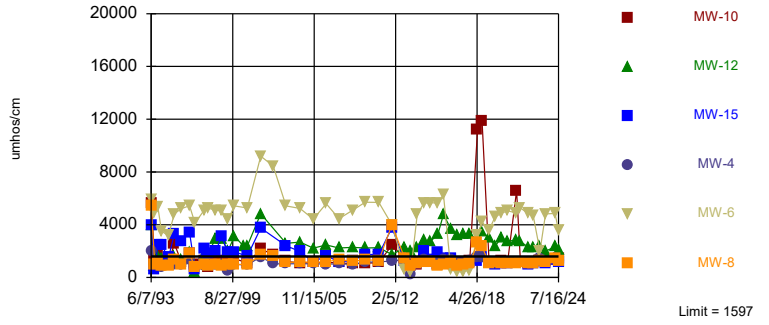
Exceeds Limit: MW-12, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=1083, Std. Dev.=257.3, n=102. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

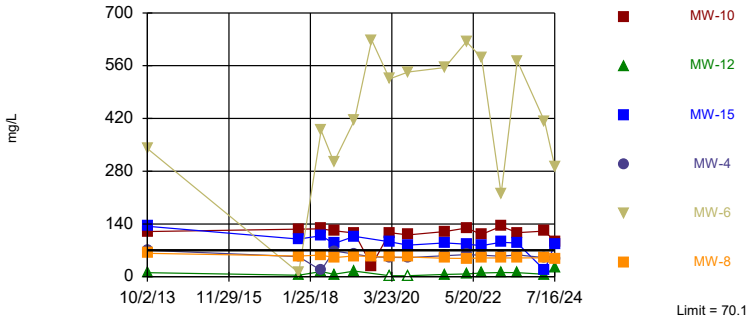
Constituent: Specific Conductance Analysis Run 8/28/2024 3:27 PM View: 2024AWQR - Control Limit-Be
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-15, MW-6

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=42.53, Std. Dev.=13.79, n=29, 3.448% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Sulfate Analysis Run 8/28/2024 3:27 PM View: 2024AWQR - Control Limit-Bedrock-Fall

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Attachment C

Time Series Graphs

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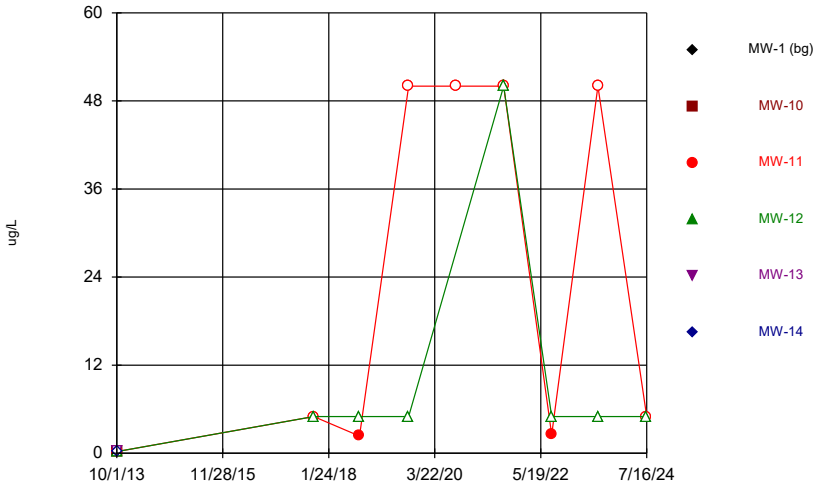
Time Series



Constituent: 2-Butanone Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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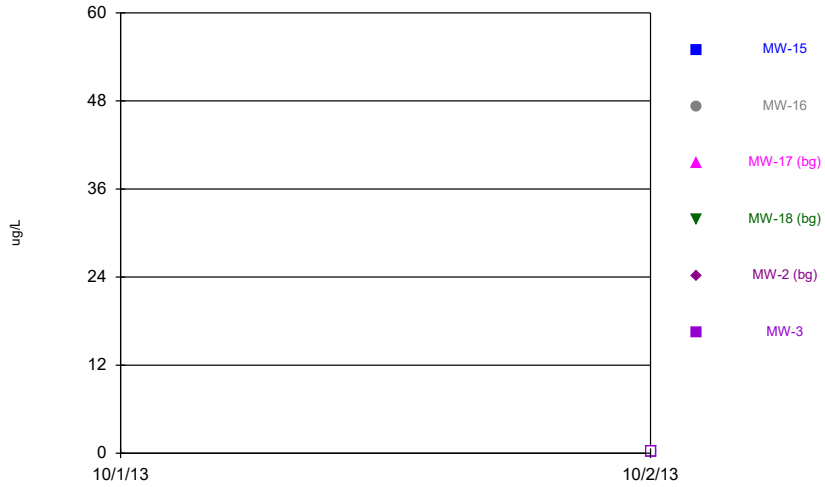
Hollow symbols indicate censored values.

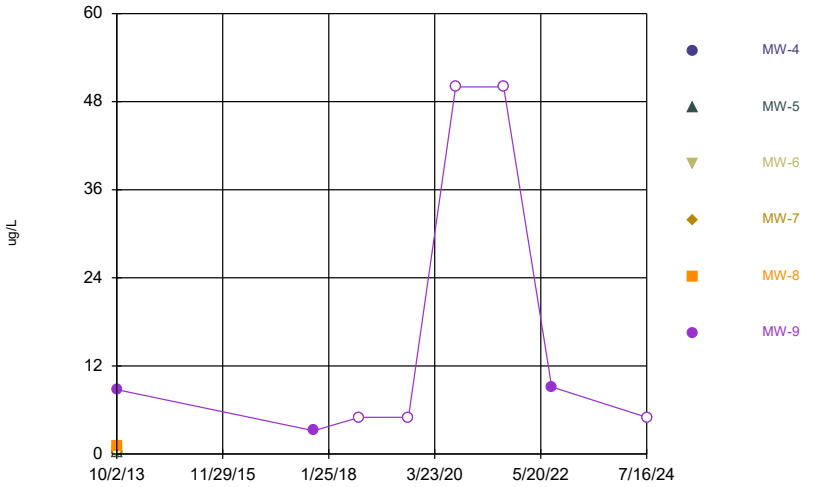
Time Series



Constituent: 2-Butanone Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

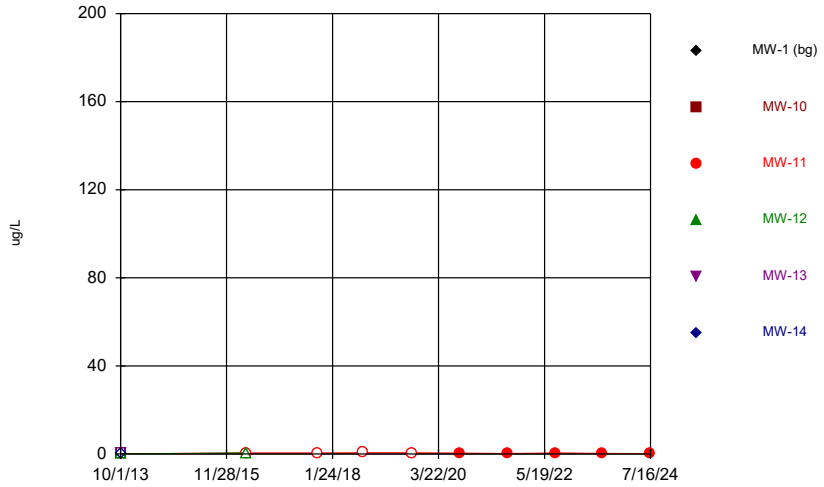
Time Series



Constituent: 2-Butanone Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Acenaphthene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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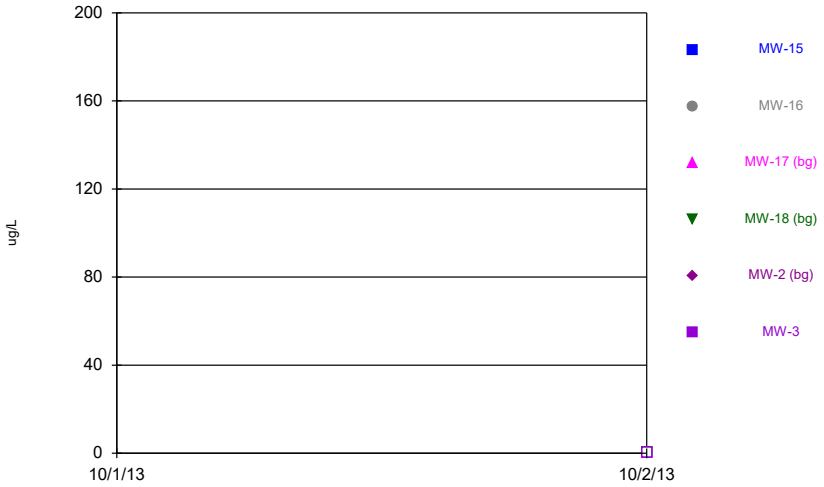
Hollow symbols indicate censored values.

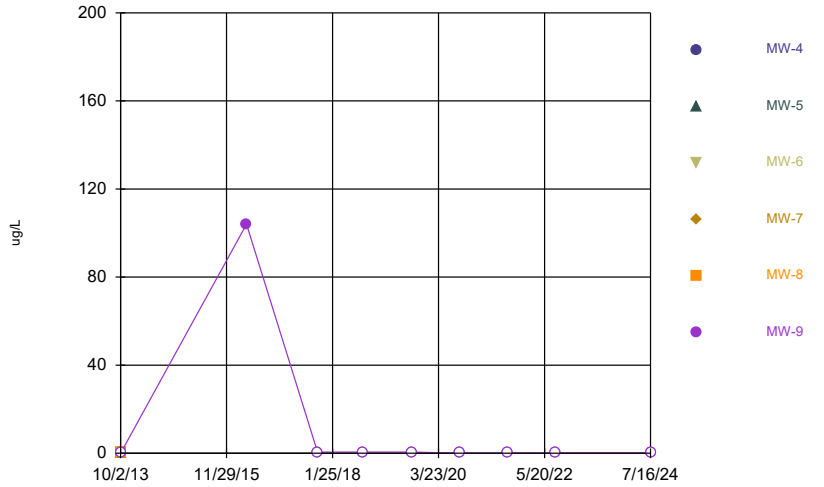
Time Series



Constituent: Acenaphthene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Acenaphthene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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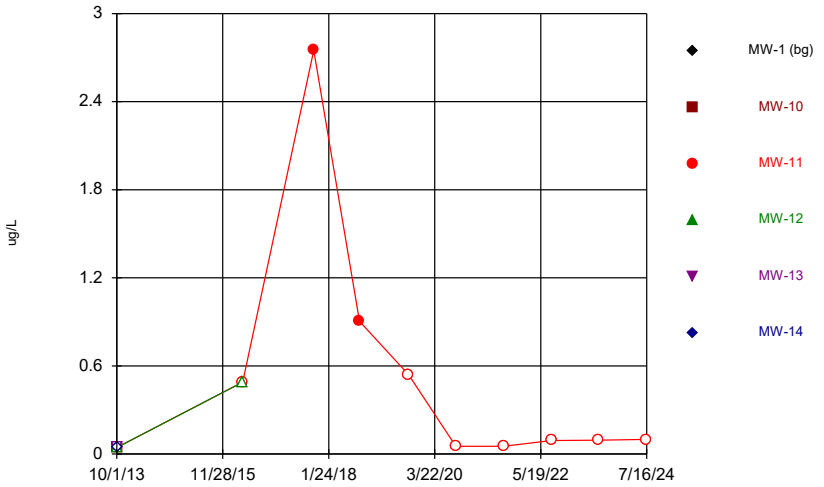
Hollow symbols indicate censored values.

Time Series



Constituent: Acenaphthylene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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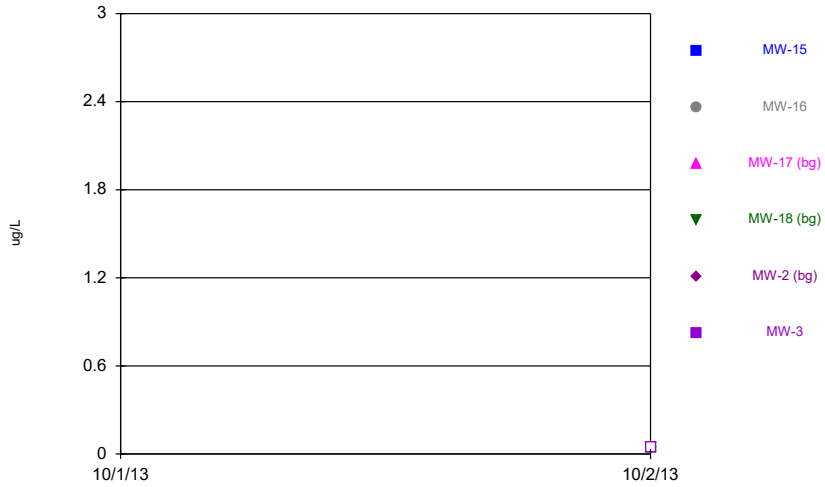
Hollow symbols indicate censored values.

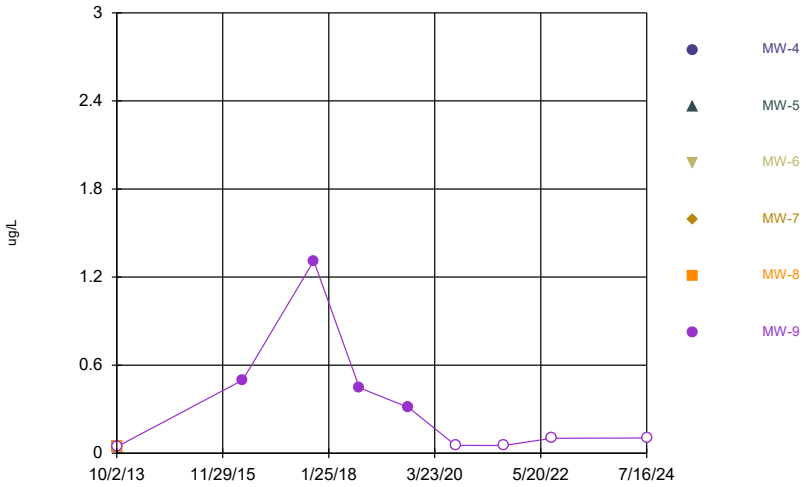
Time Series



Constituent: Acenaphthylene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

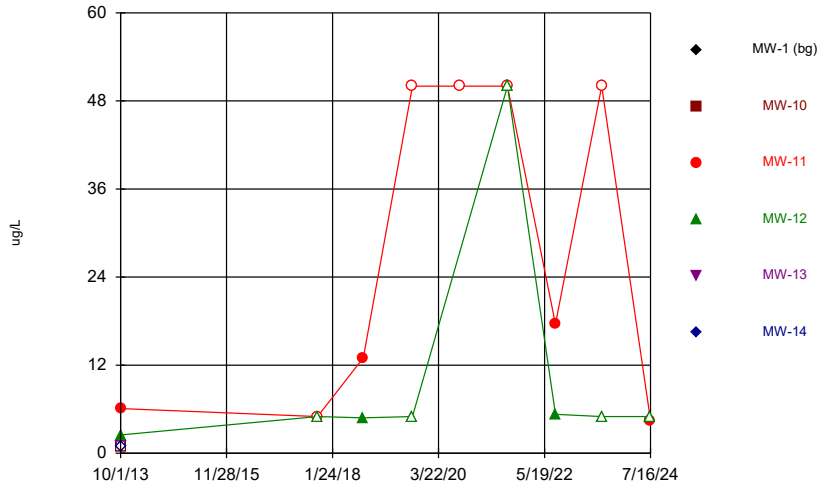
Time Series



Constituent: Acenaphthylene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

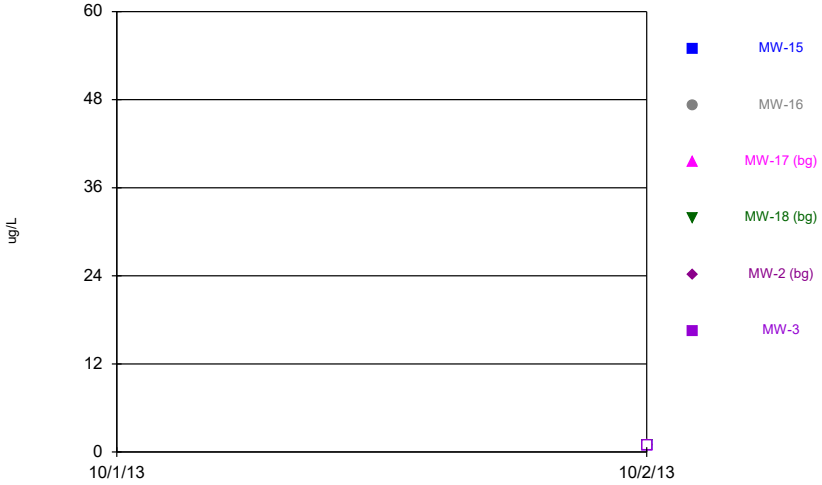
Time Series



Constituent: Acetone Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

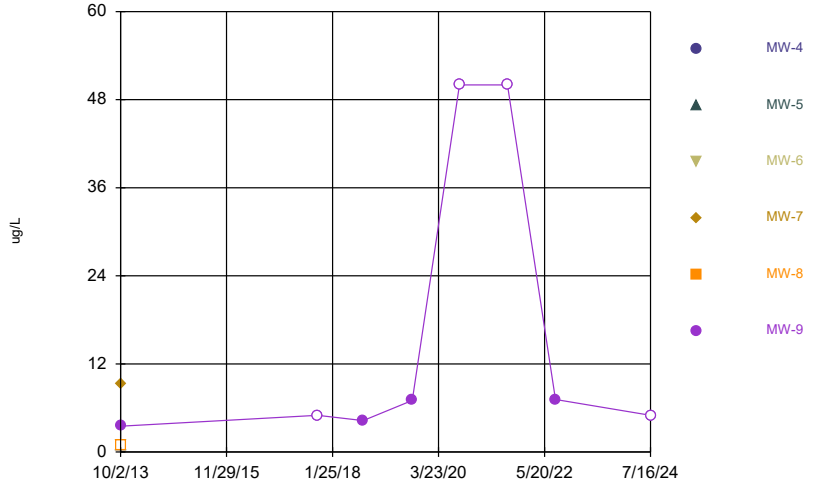
Time Series



Constituent: Acetone Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

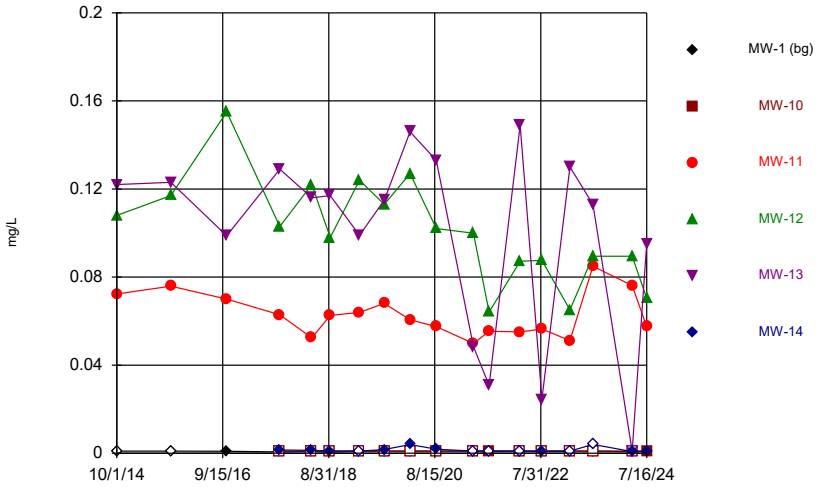
Time Series



Constituent: Acetone Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

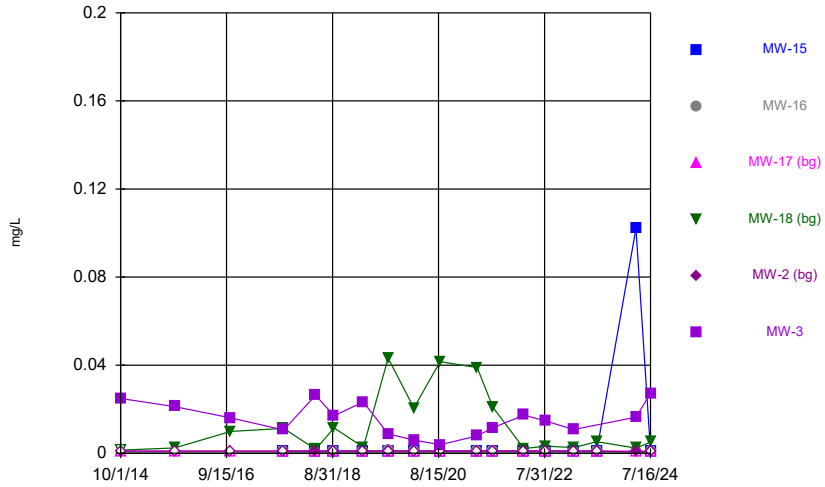
Time Series



Constituent: Arsenic Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

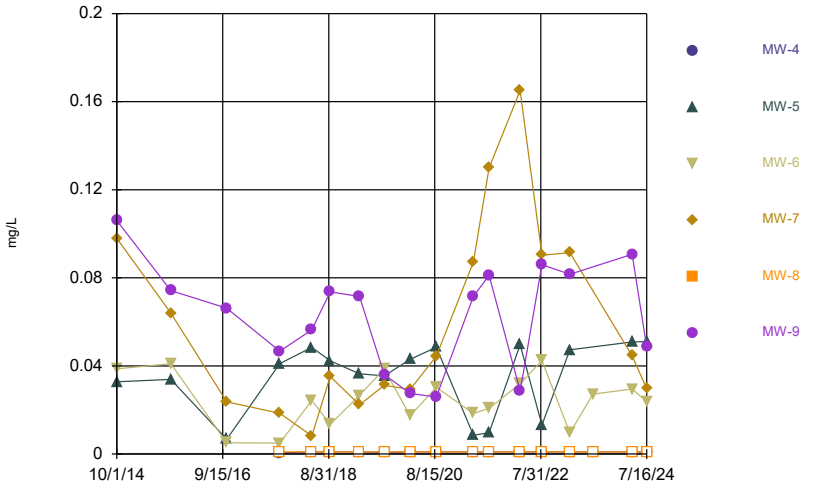
Time Series



Constituent: Arsenic Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

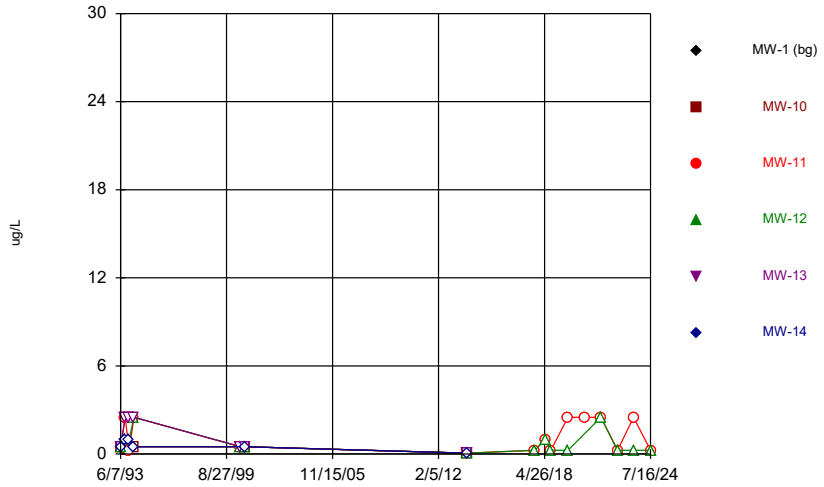
Time Series



Constituent: Arsenic Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

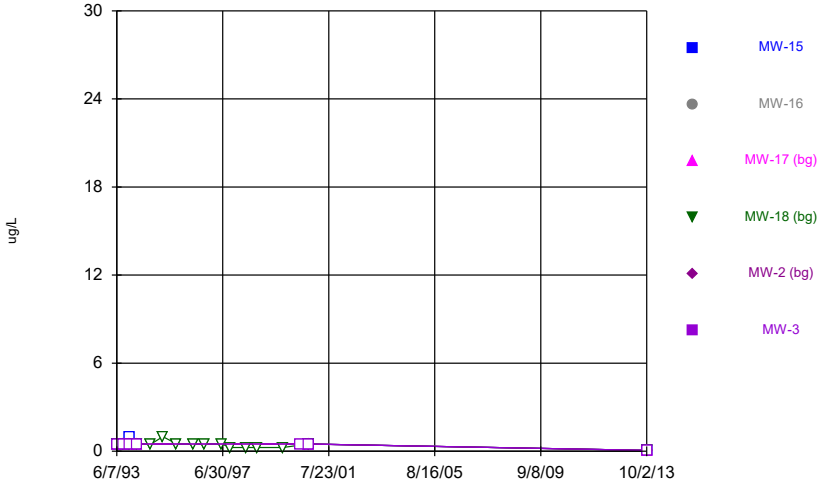
Time Series



Constituent: Benzene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

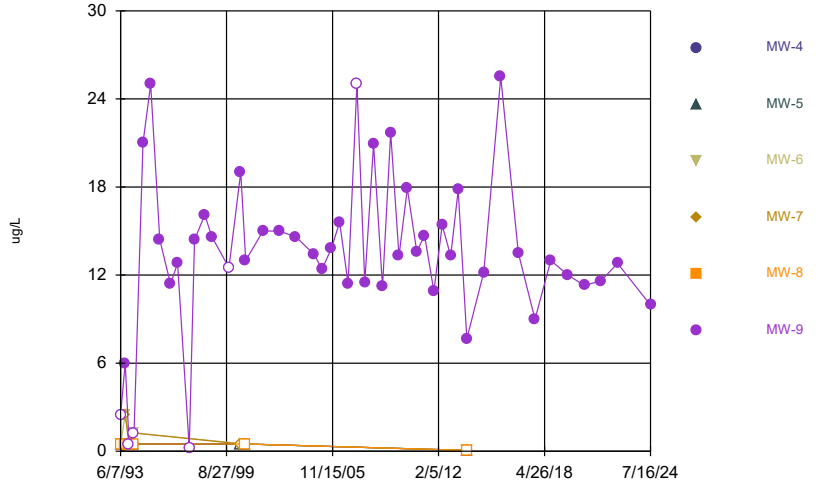
Time Series



Constituent: Benzene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

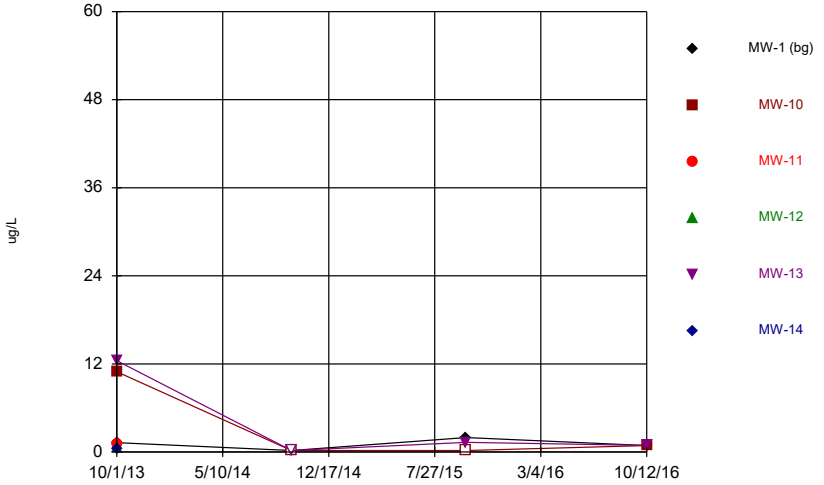
Time Series



Constituent: Benzene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

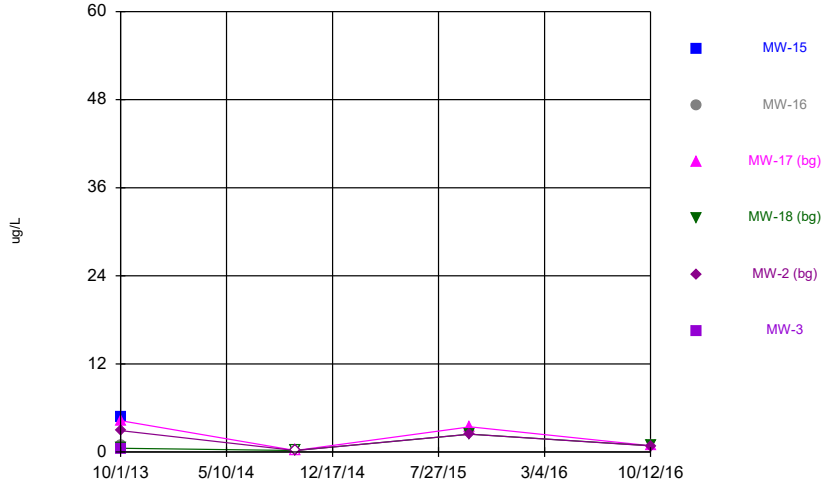
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

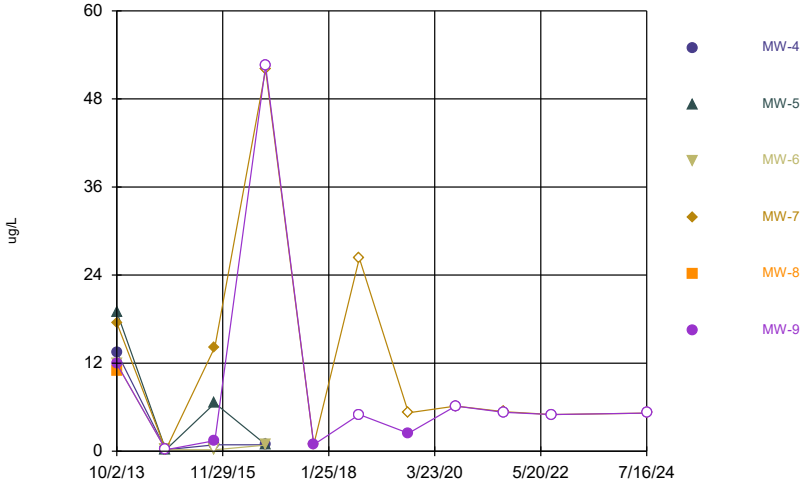
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

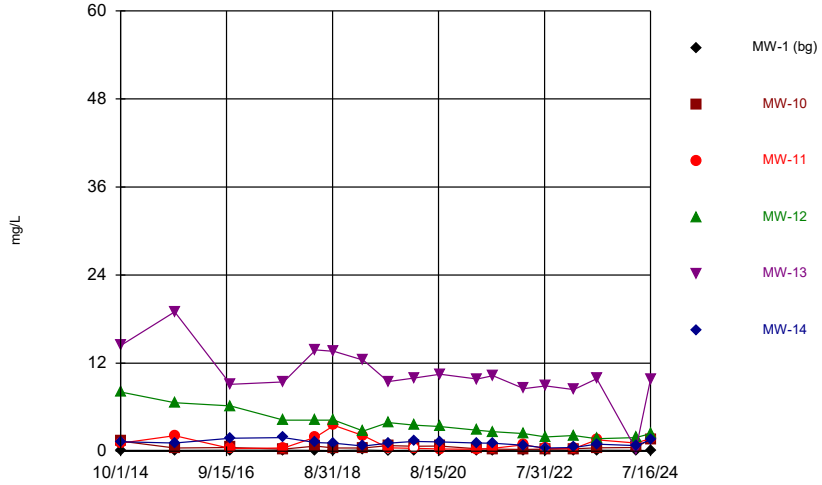
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

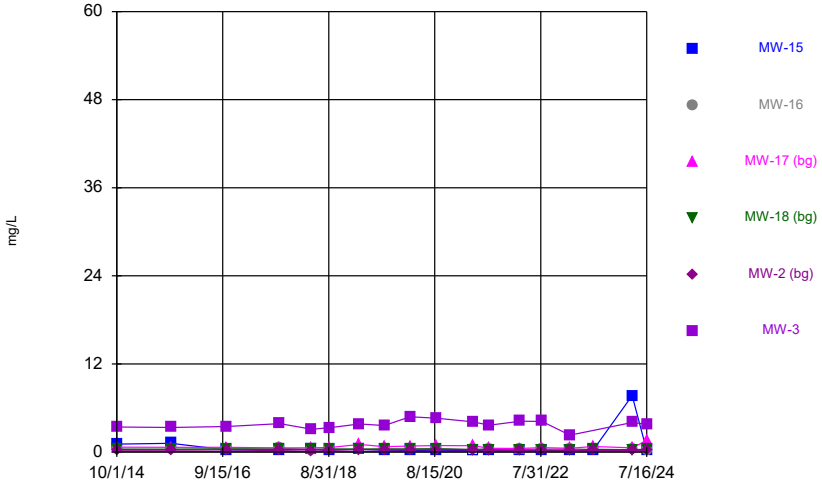
Time Series



Constituent: Boron Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

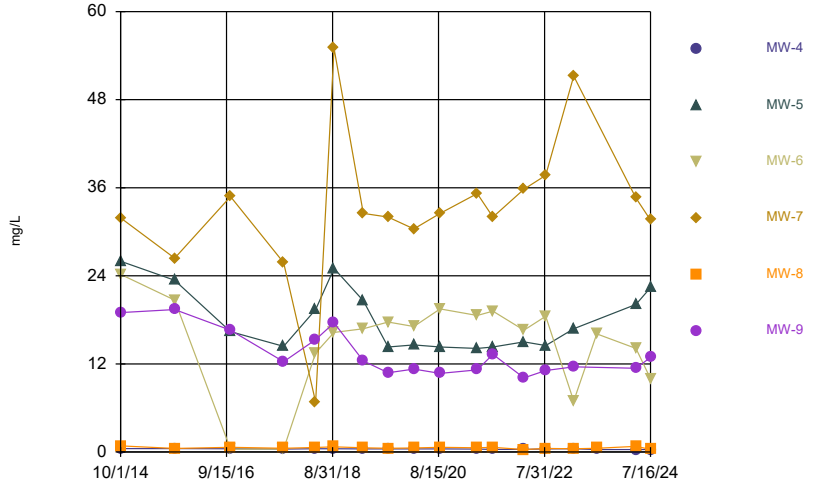
Time Series



Constituent: Boron Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

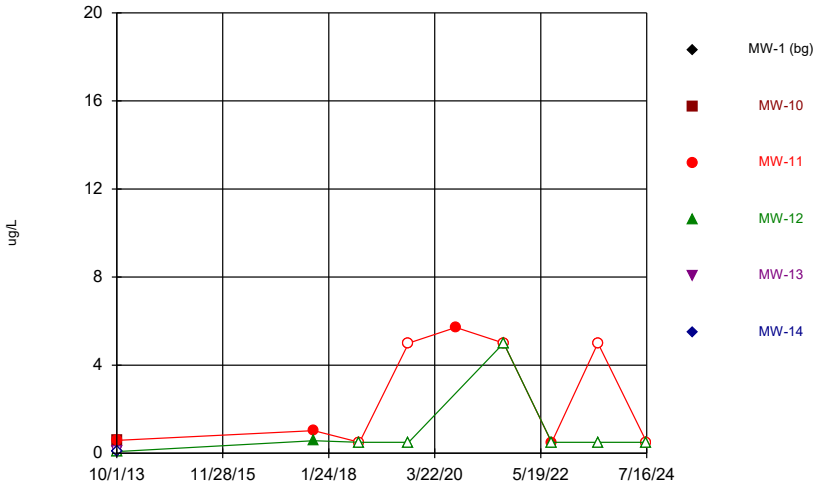
Time Series



Constituent: Boron Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

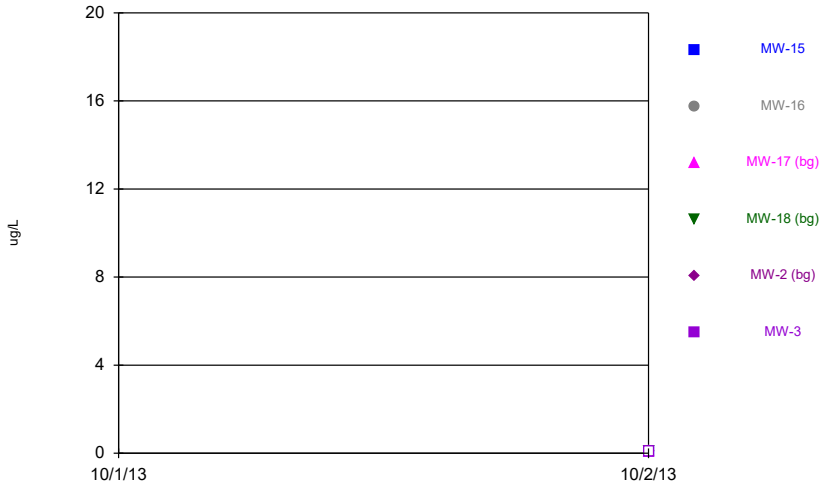
Time Series



Constituent: Carbon Disulfide Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

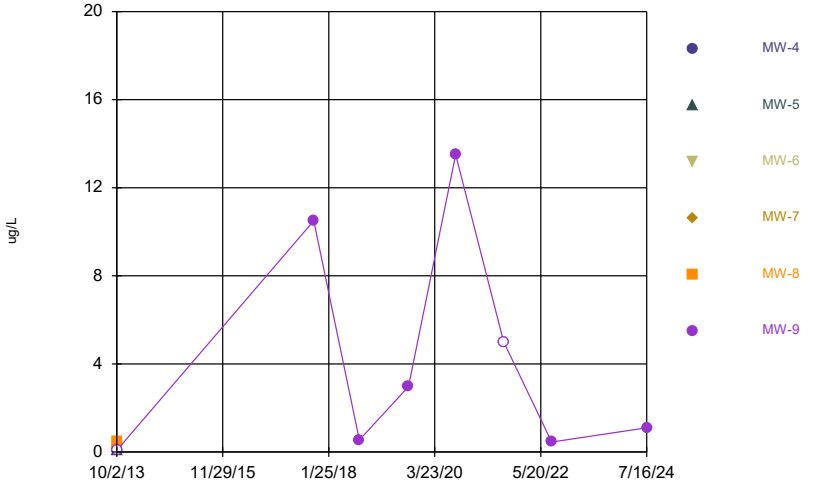
Time Series



Constituent: Carbon Disulfide Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

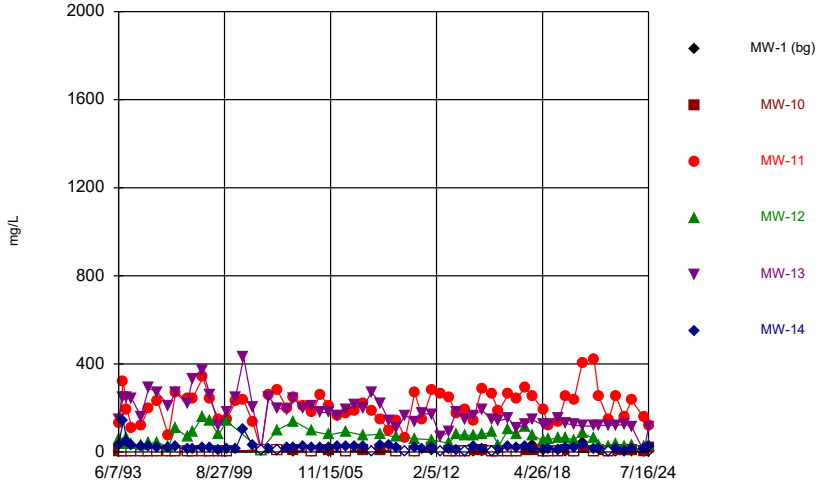
Time Series



Constituent: Carbon Disulfide Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

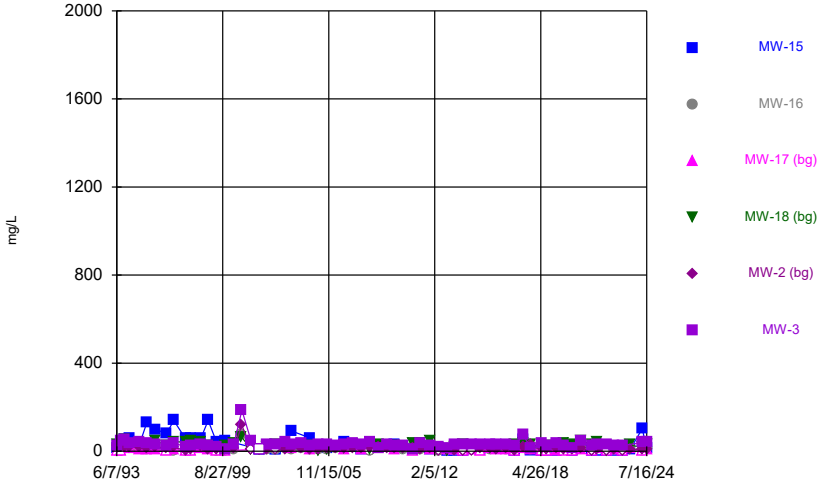
Time Series



Constituent: Chemical Oxygen Demand Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

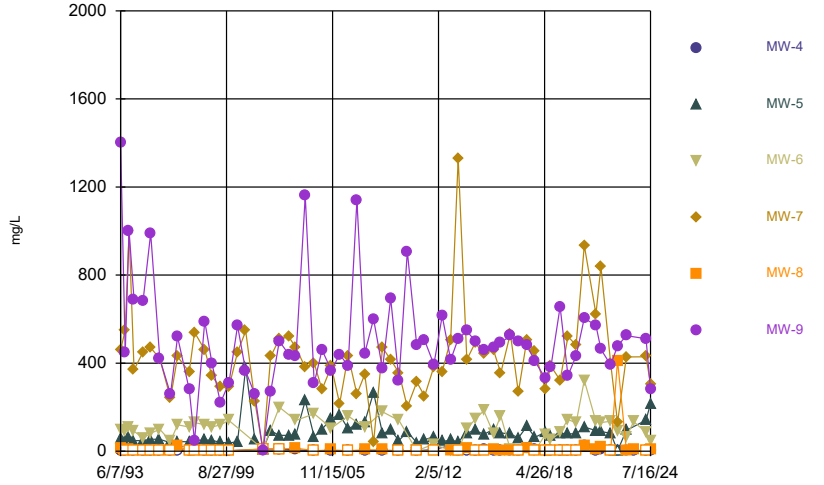
Time Series



Constituent: Chemical Oxygen Demand Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

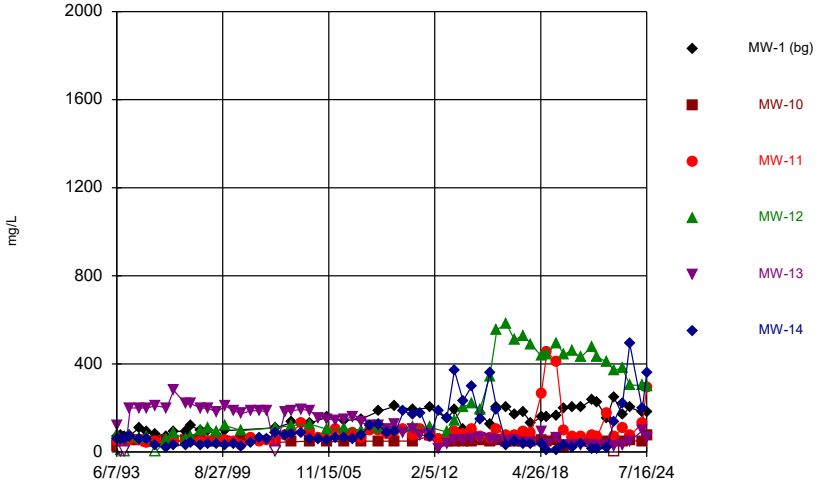
Time Series



Constituent: Chemical Oxygen Demand Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

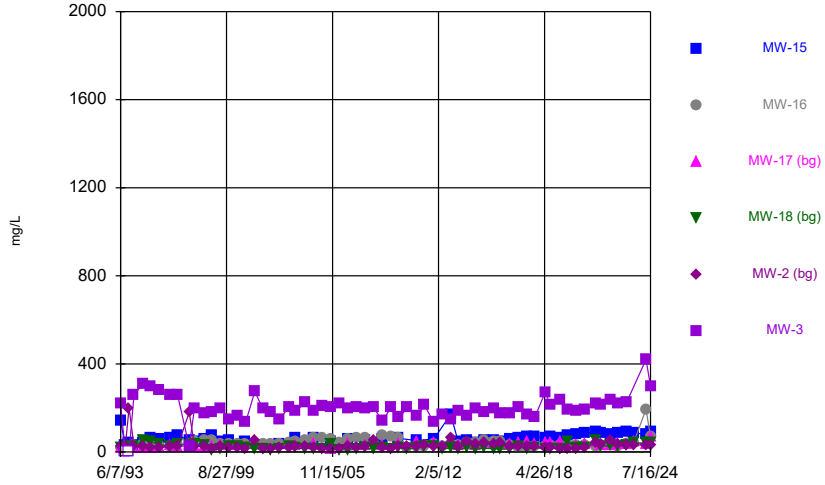
Time Series



Constituent: Chloride Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

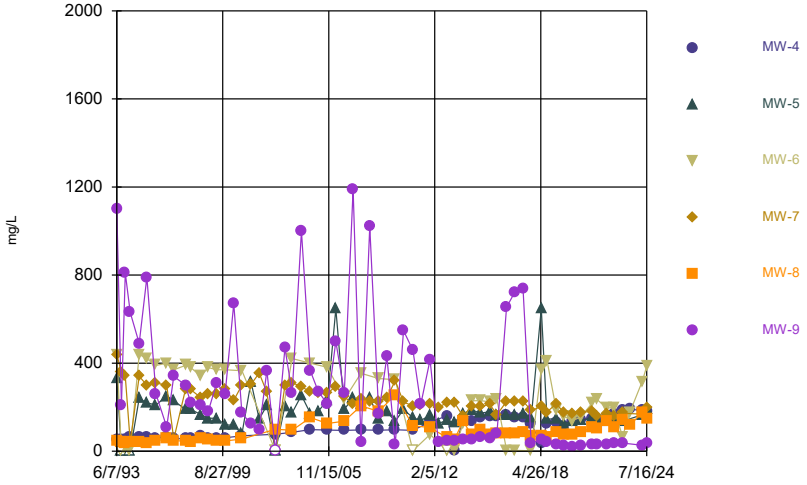
Time Series



Constituent: Chloride Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

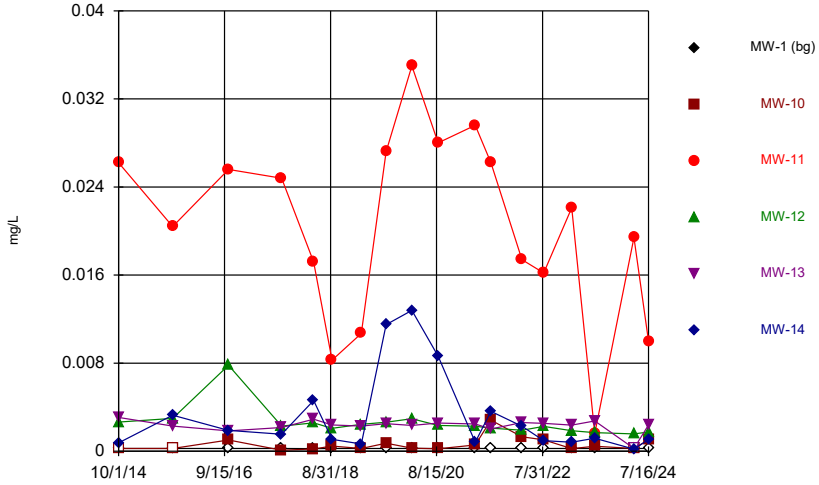
Time Series



Constituent: Chloride Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

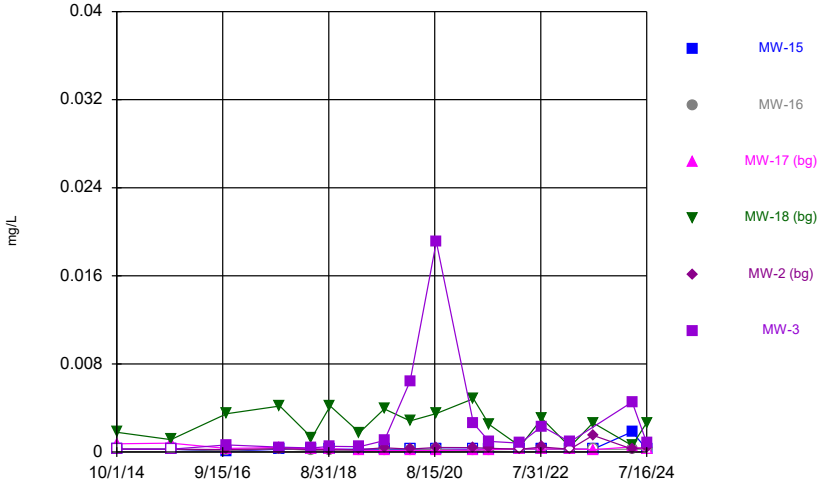
Time Series



Constituent: Cobalt Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

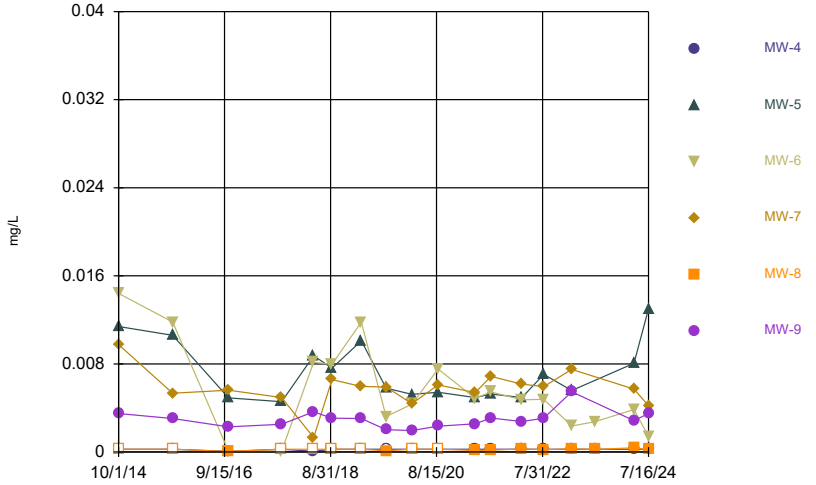
Time Series



Constituent: Cobalt Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

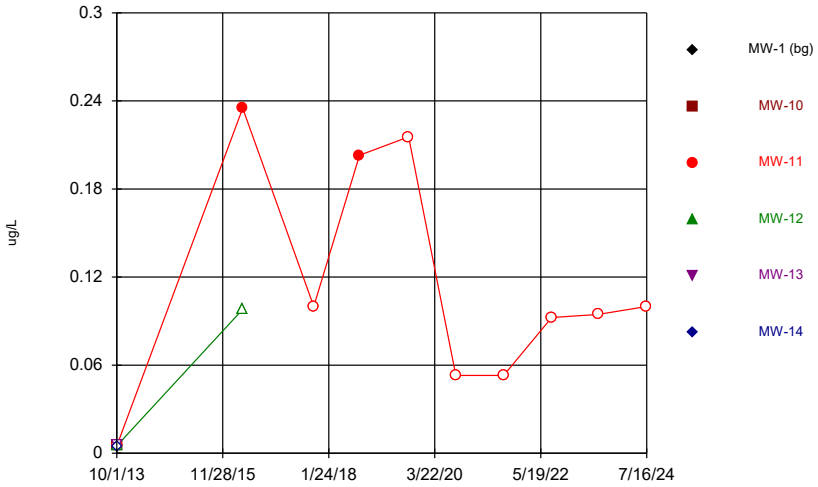
Time Series



Constituent: Cobalt Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

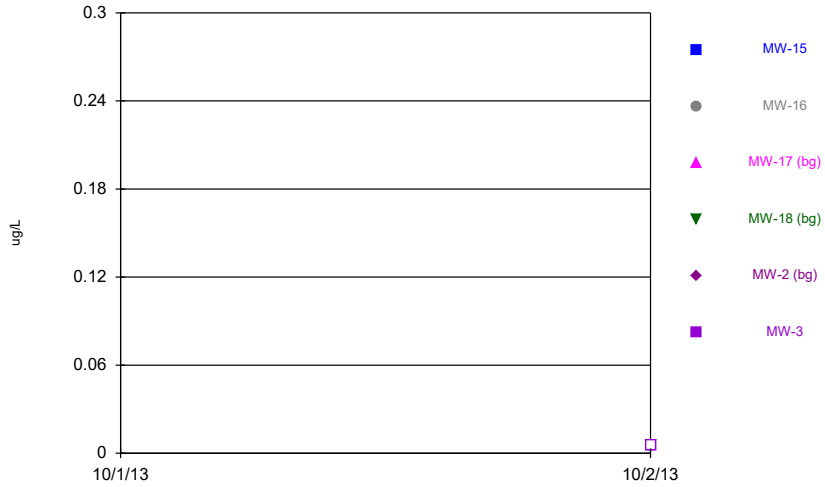
Time Series



Constituent: Fluoranthene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

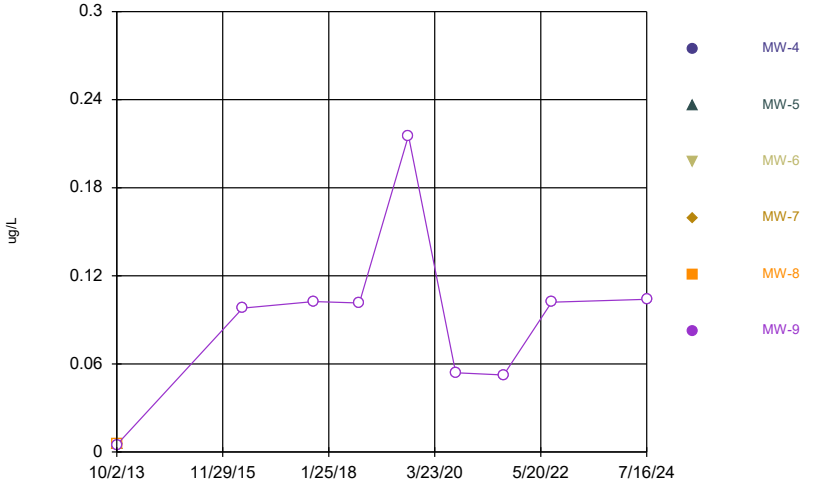
Time Series



Constituent: Fluoranthene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

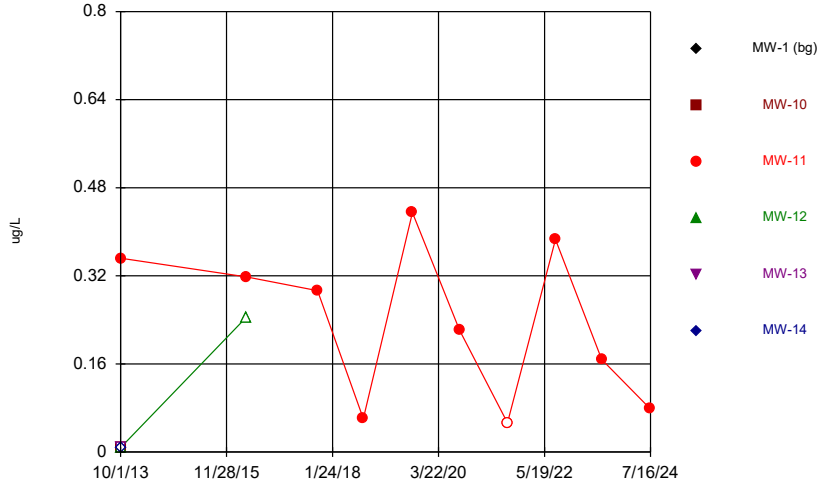
Time Series



Constituent: Fluoranthene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

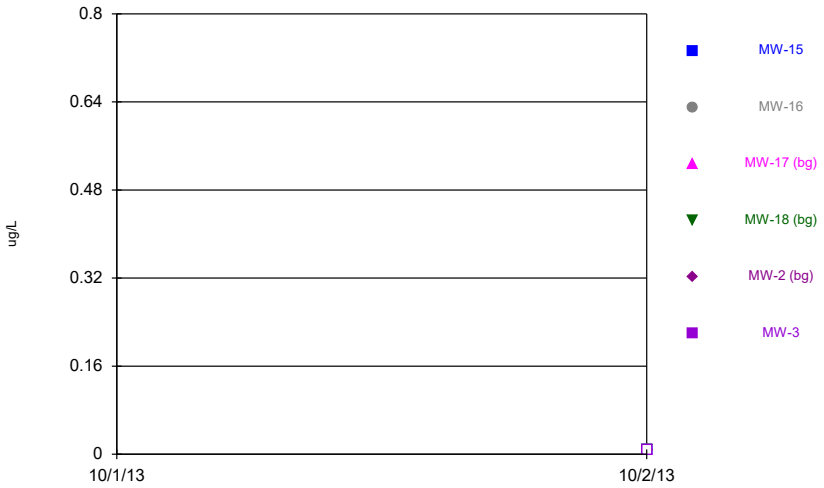
Time Series



Constituent: Fluorene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

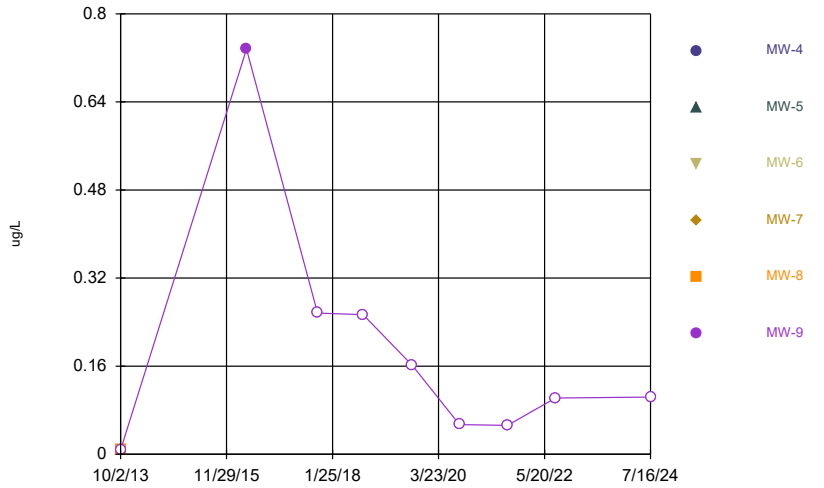
Time Series



Constituent: Fluorene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

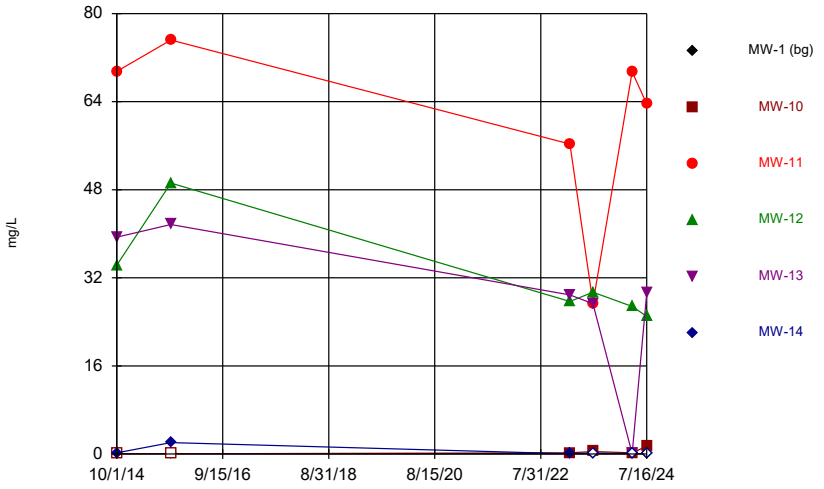
Time Series



Constituent: Fluorene Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

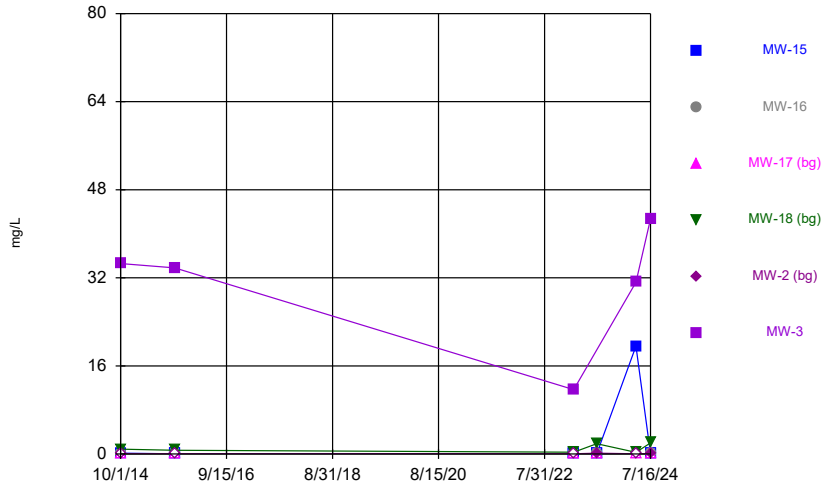
Time Series



Constituent: Iron Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

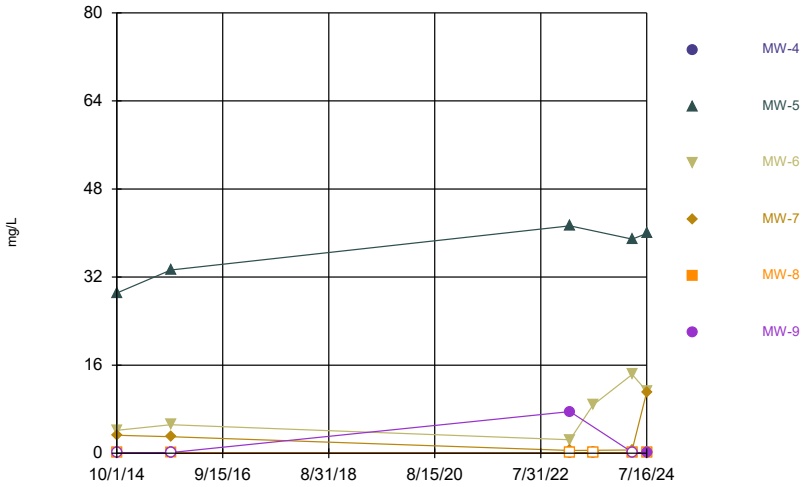
Time Series



Constituent: Iron Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Iron Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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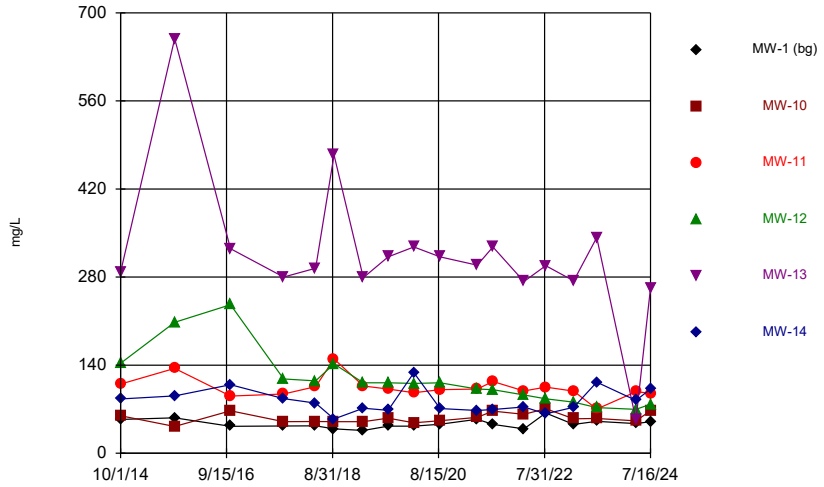
Time Series



Constituent: Magnesium Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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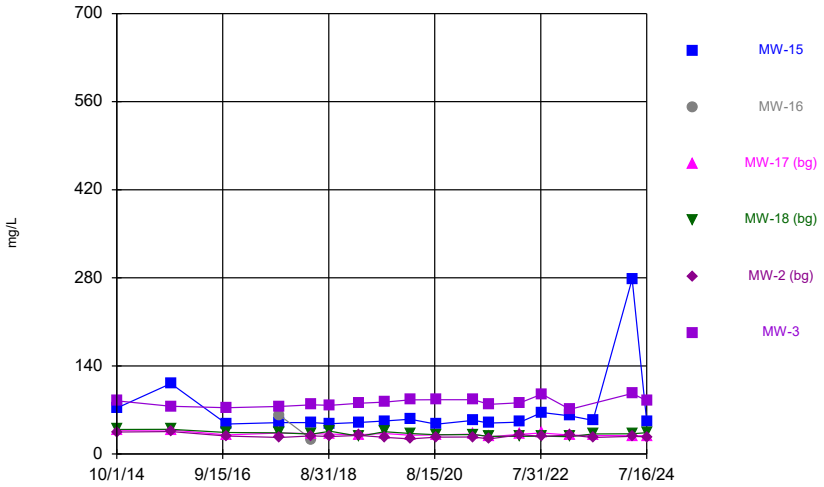
Time Series



Constituent: Magnesium Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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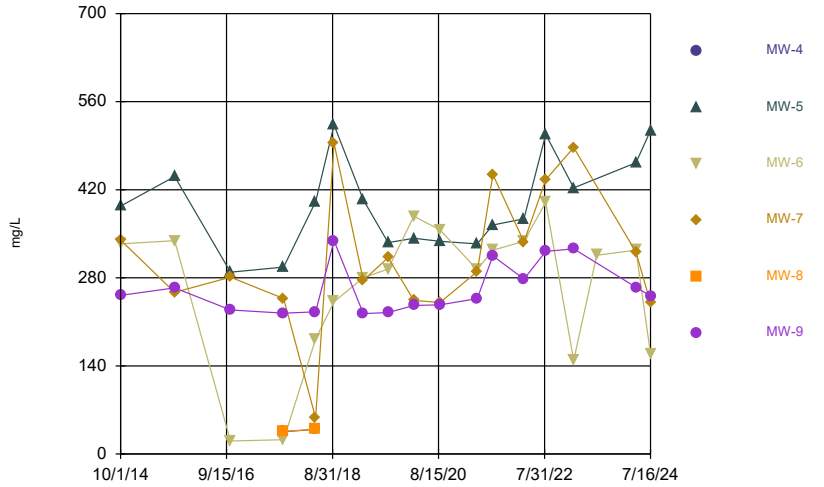
Time Series



Constituent: Magnesium Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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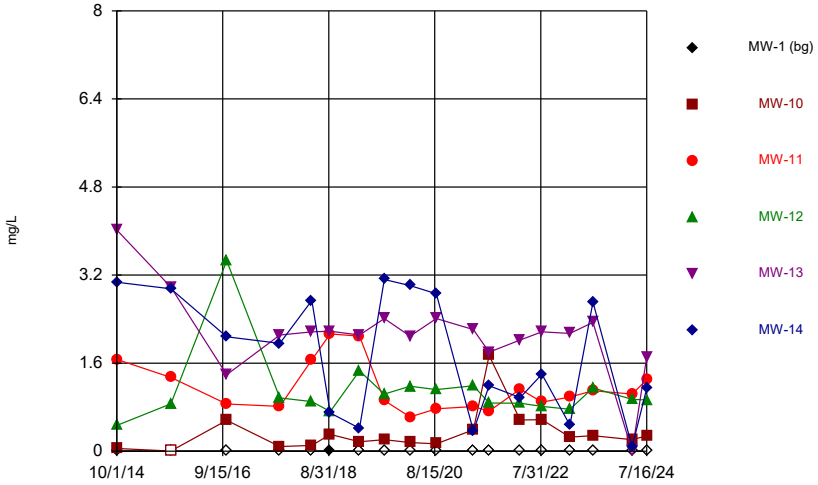
Hollow symbols indicate censored values.

Time Series



Constituent: Manganese Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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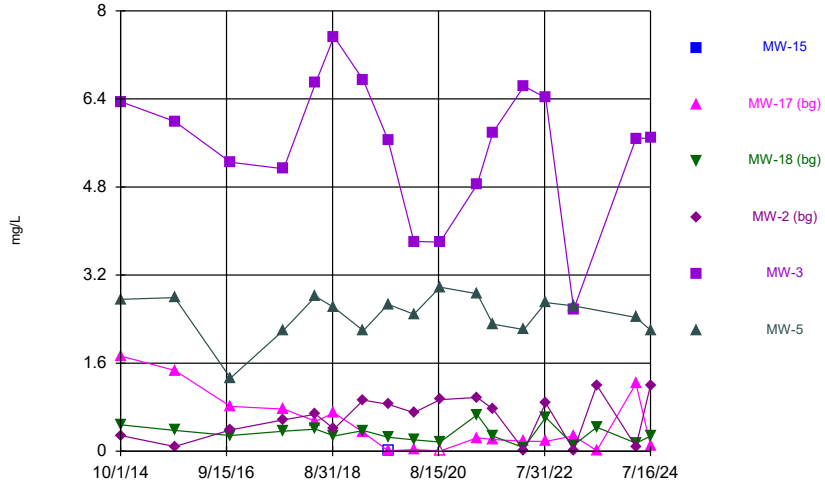
Hollow symbols indicate censored values.

Time Series



Constituent: Manganese Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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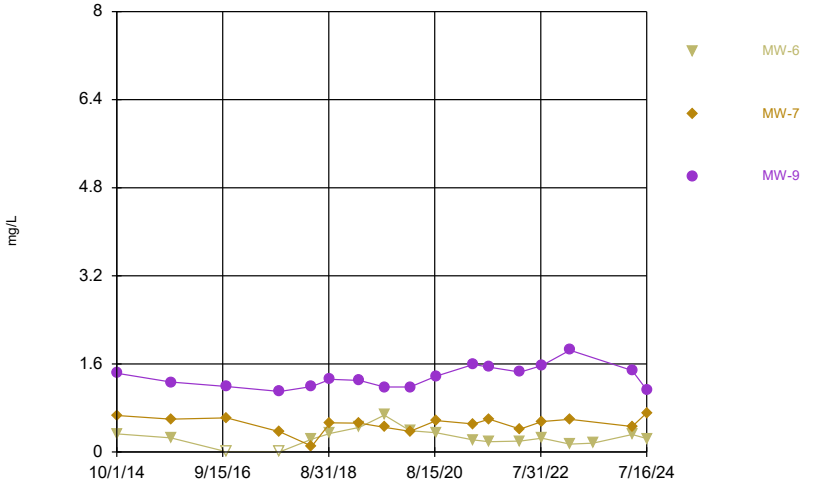
Hollow symbols indicate censored values.

Time Series



Constituent: Manganese Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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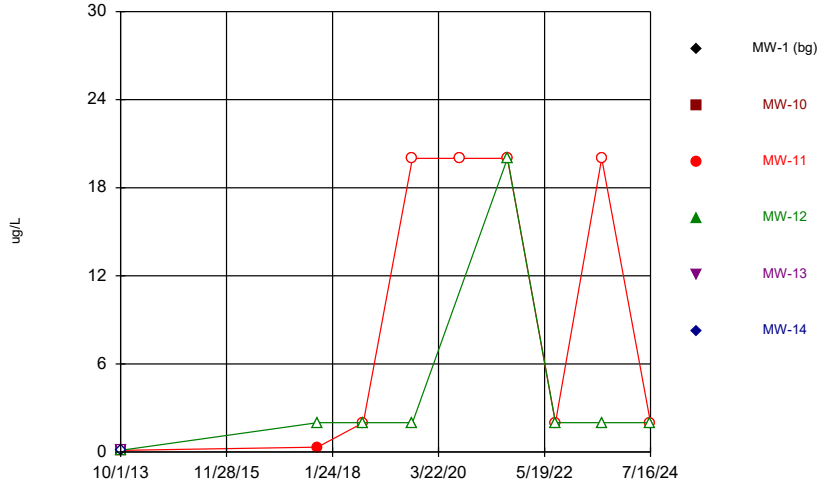
Hollow symbols indicate censored values.

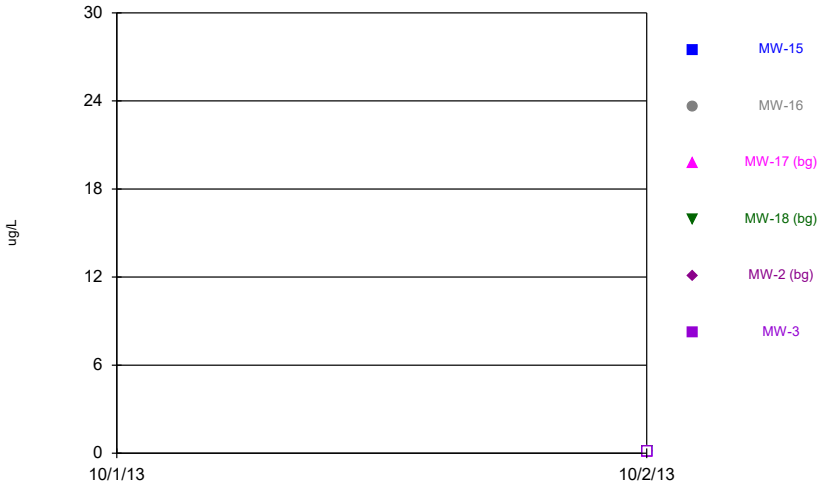
Time Series



Constituent: Methyl bromide Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

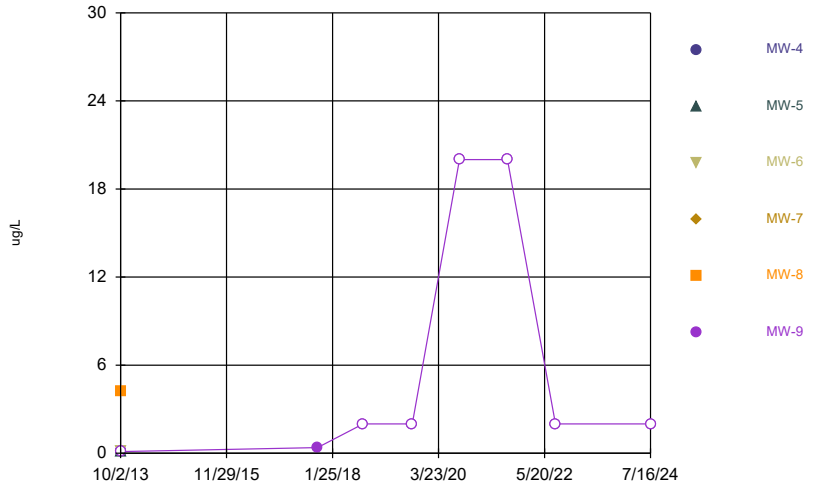
Time Series



Constituent: Methyl bromide Analysis Run 8/28/2024 2:31 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Methyl bromide Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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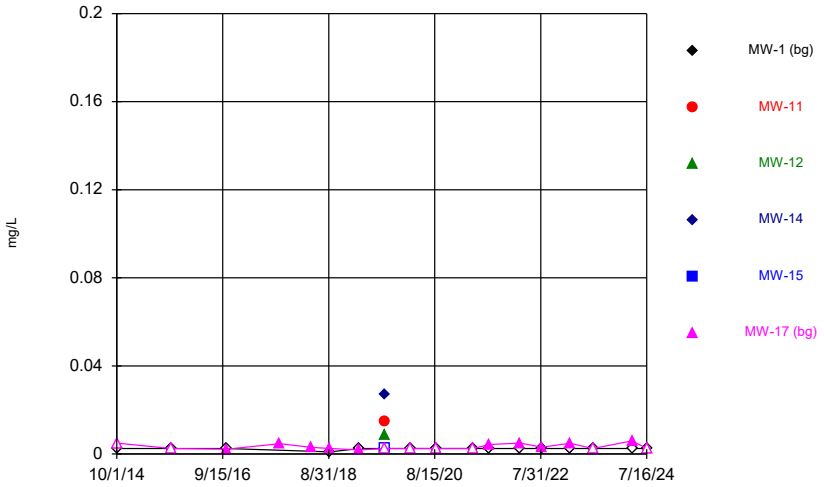
Hollow symbols indicate censored values.

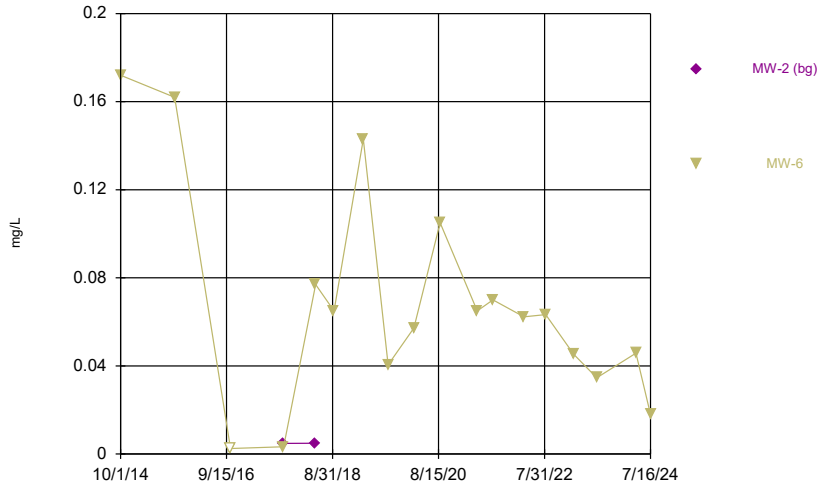
Time Series



Constituent: Nickel Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

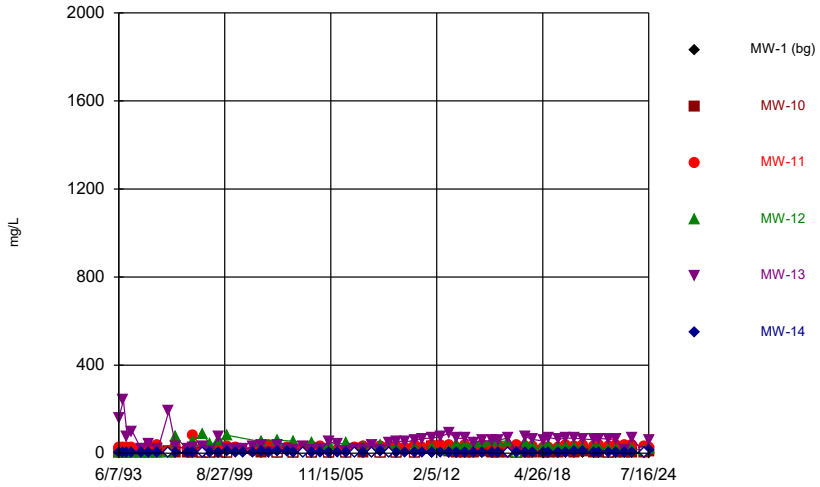
Time Series



Constituent: Nickel Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

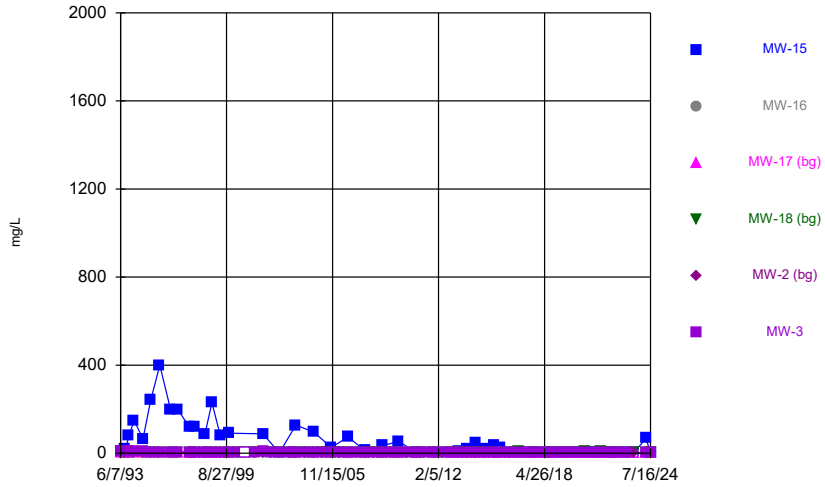
Time Series



Constituent: Nitrogen, Ammonia Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

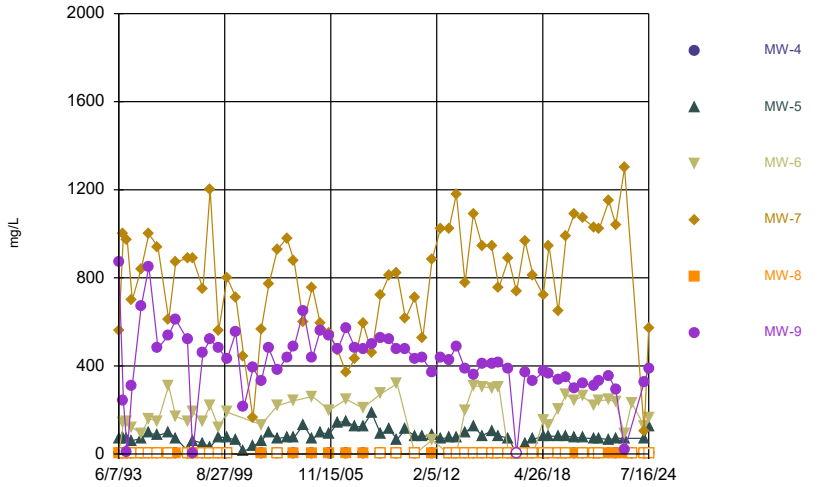
Time Series



Constituent: Nitrogen, Ammonia Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

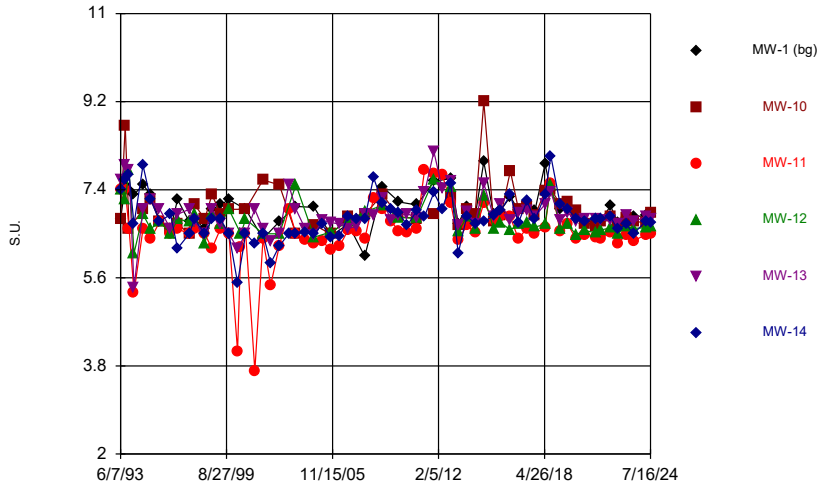
Time Series



Constituent: Nitrogen, Ammonia Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

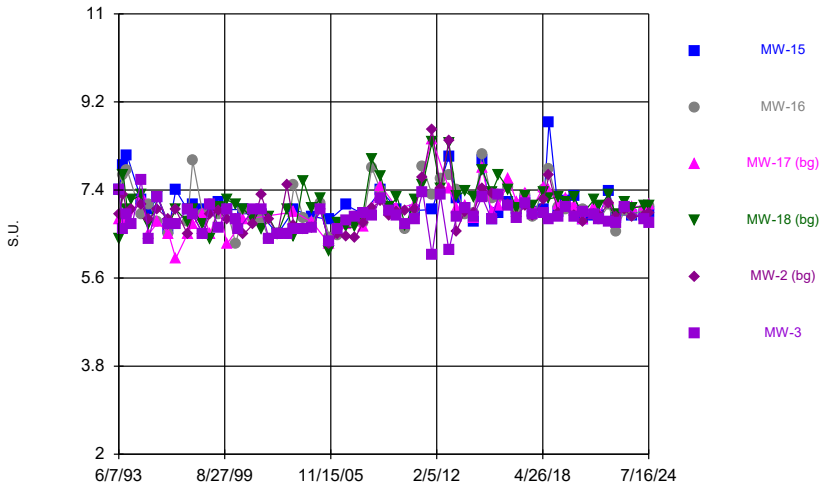
Time Series



Constituent: pH Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

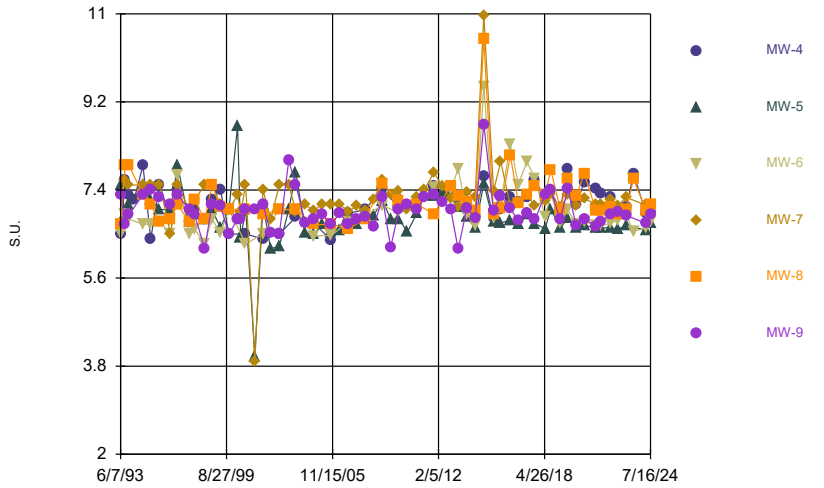
Time Series



Constituent: pH Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: pH Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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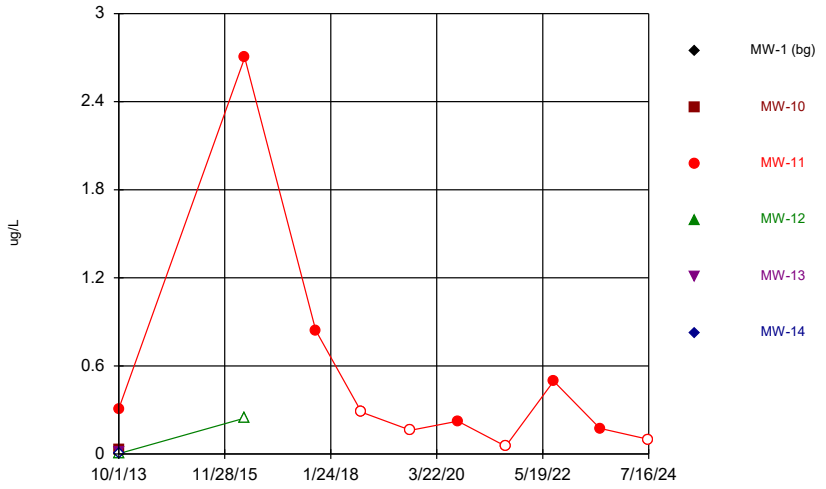
Hollow symbols indicate censored values.

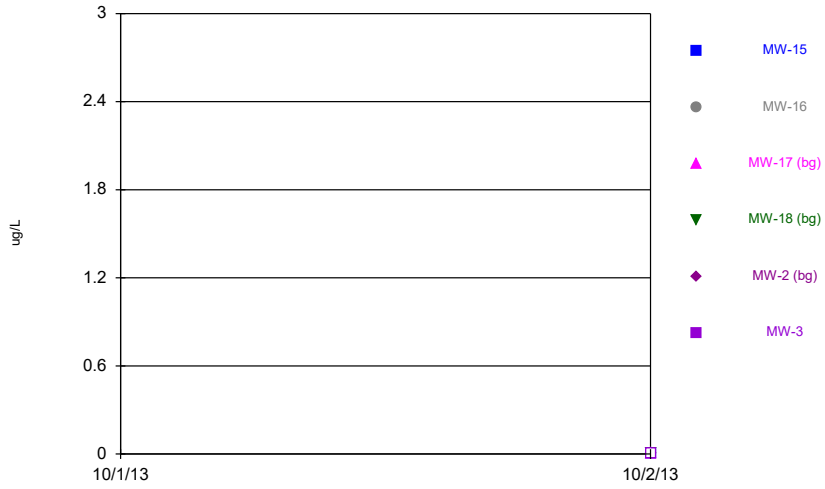
Time Series



Constituent: Phenanthrene Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

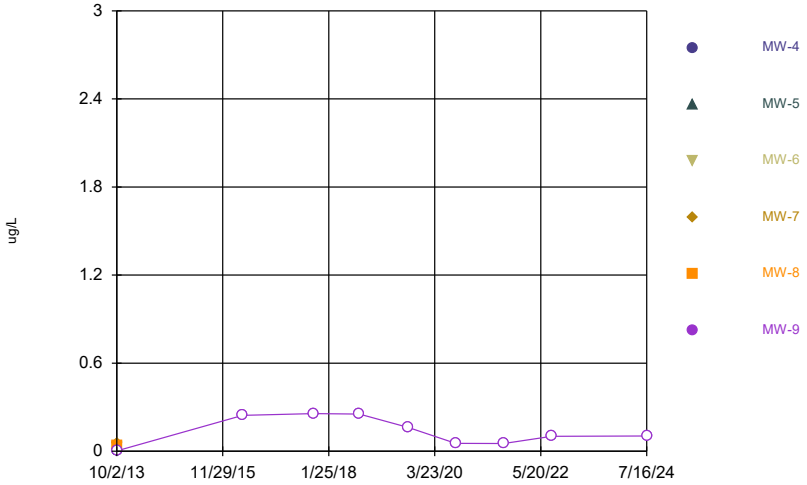
Time Series



Constituent: Phenanthrene Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Phenanthrene Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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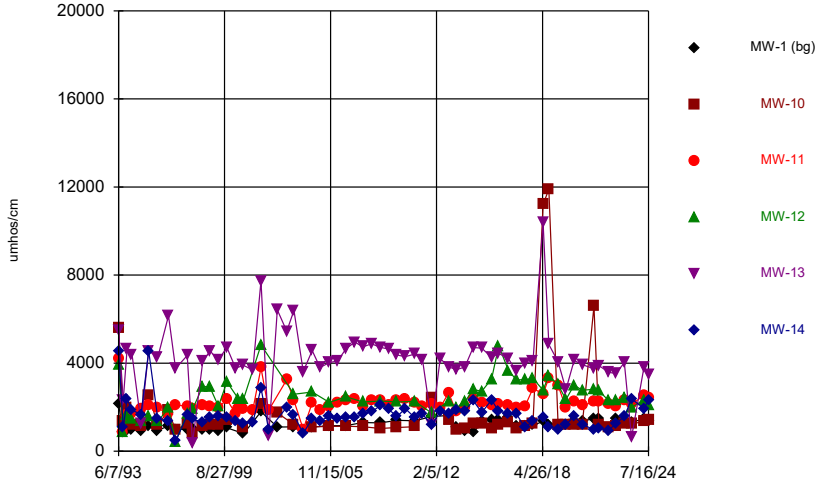
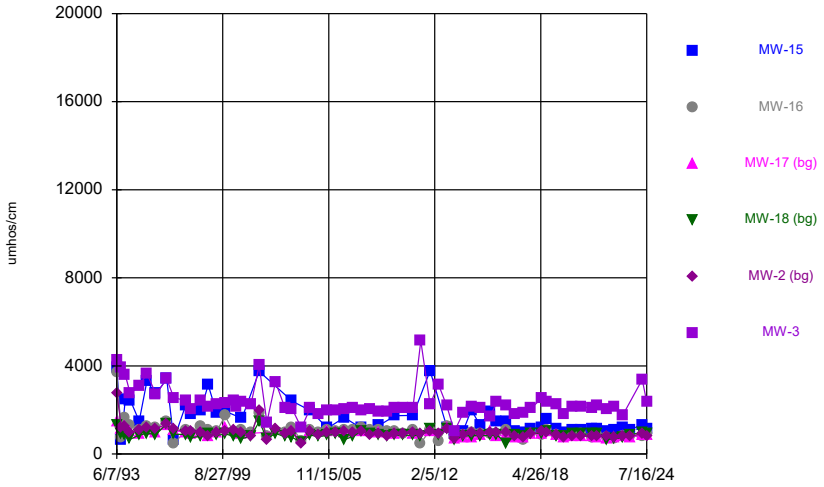
Time Series



Constituent: Specific Conductance Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

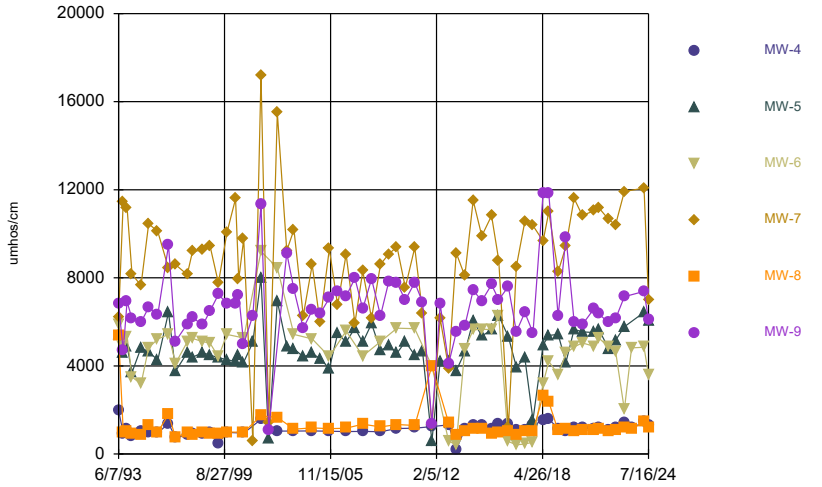
Time Series



Constituent: Specific Conductance Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Specific Conductance Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

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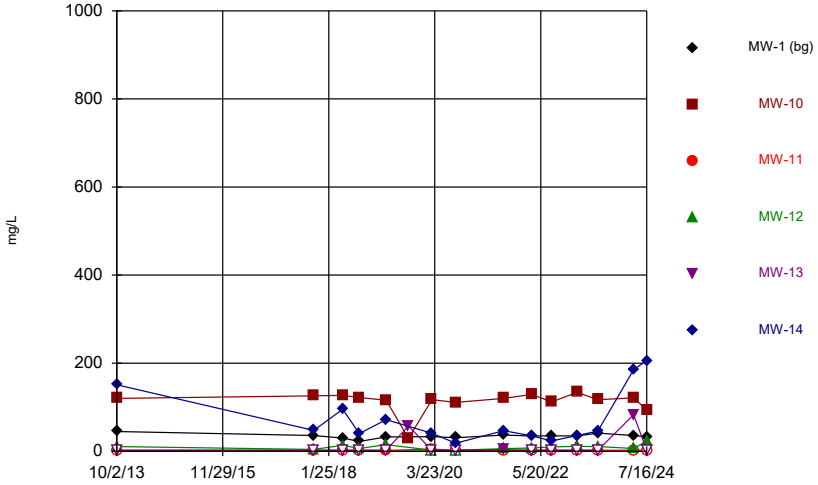
Hollow symbols indicate censored values.

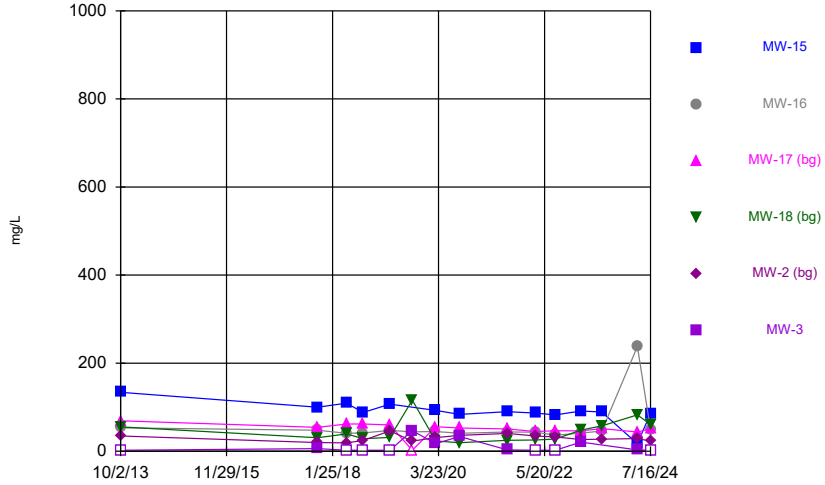
Time Series



Constituent: Sulfate Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

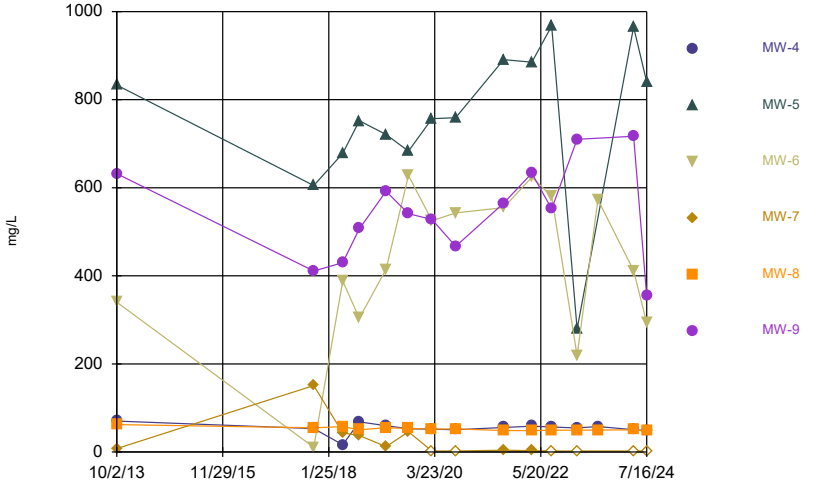
Time Series



Constituent: Sulfate Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

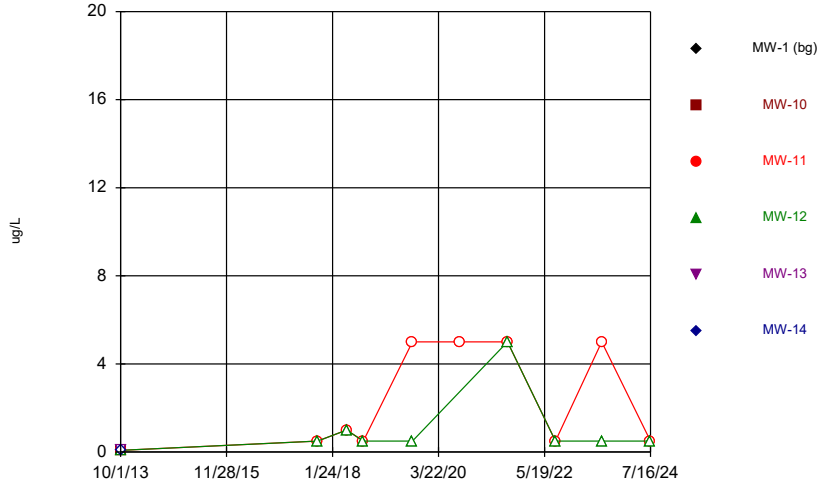
Time Series



Constituent: Sulfate Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

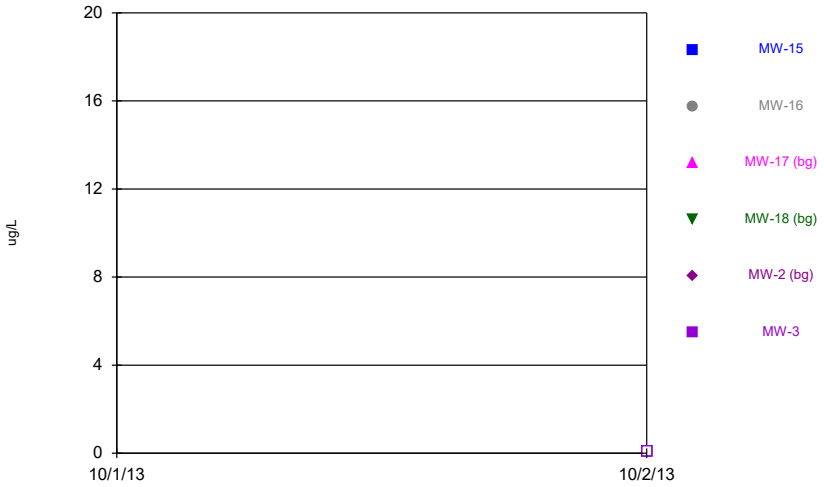
Time Series



Constituent: Toluene Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

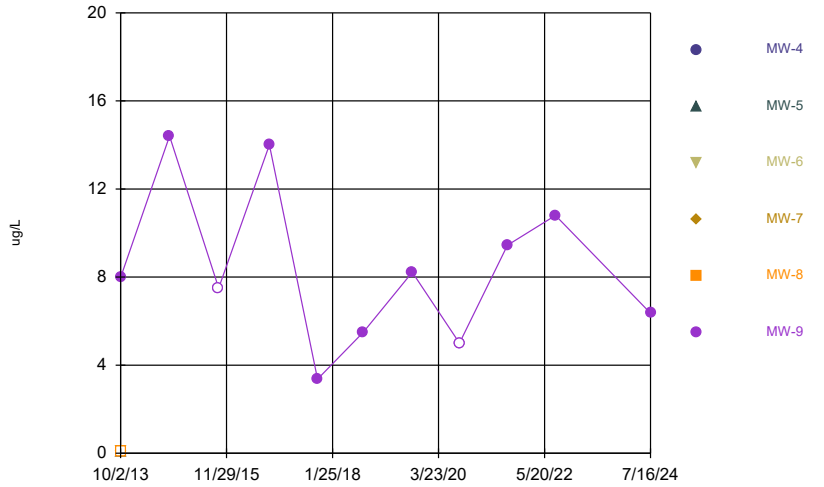
Time Series



Constituent: Toluene Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

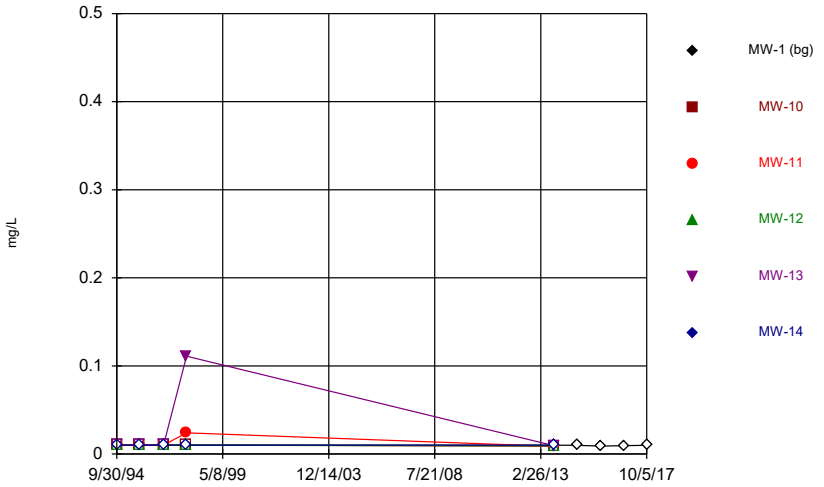
Time Series



Constituent: Toluene Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

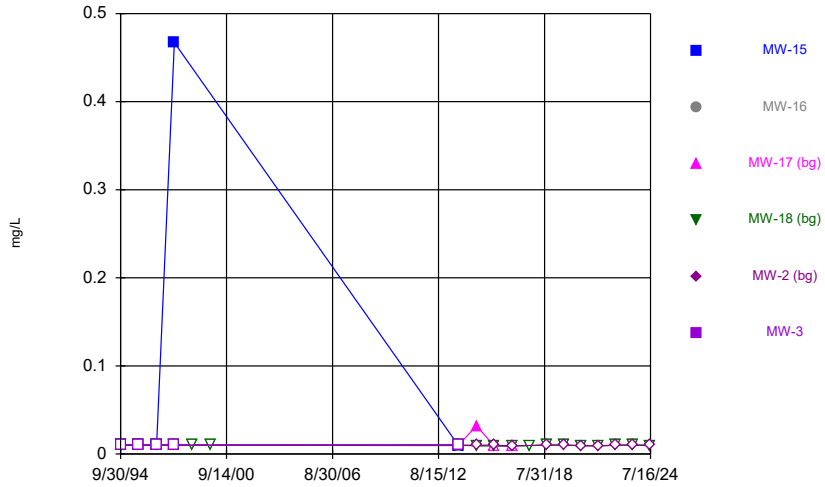
Time Series



Constituent: Total Phenols Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

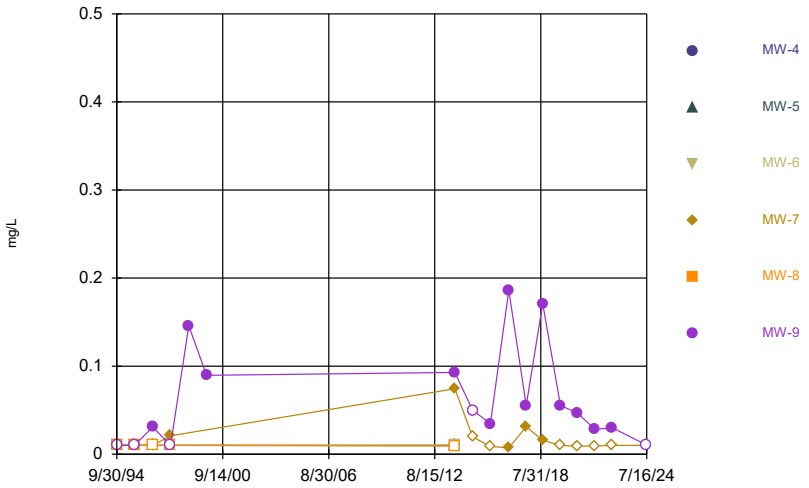
Time Series



Constituent: Total Phenols Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det
Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Hollow symbols indicate censored values.

Time Series



Constituent: Total Phenols Analysis Run 8/28/2024 2:32 PM View: 2024AWQR - Time Series All Det

Archer Daniels Midland Landfill Client: SCS Engineers Data: ADMCO HMSP Sanitas

Appendix E

Mann-Kendall Trend Table

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-1	Boron		-12	
	Chemical Oxygen Demand		-10	
	Chloride		-6	
	Magnesium		0	
	pH		12	
	Specific Conductance		-2	
	Sulfate		3	
MW-2	Boron		-3	
	Chemical Oxygen Demand			13
	Chloride	-16		
	Cobalt		3	
	Iron		5	
	Magnesium		1	
	Manganese		5	
	Nitrogen, Ammonia		-8	
	pH		-2	
	Specific Conductance		0	
	Sulfate	-20		
MW-3	Arsenic			18
	Boron		-12	
	Chemical Oxygen Demand		2	
	Chloride			18
	Cobalt		-10	
	Iron		0	
	Magnesium		2	
	Manganese		4	
	Nitrogen, Ammonia		8	
	pH		-12	
	Specific Conductance		6	
	Sulfate		-11	
MW-4	Boron		-12	
	Chemical Oxygen Demand		2	
	Chloride			16
	Nitrogen, Ammonia		-3	
	pH	-15		
	Specific Conductance			14
	Sulfate		-6	
MW-5	Arsenic			16
	Boron			23
	Chemical Oxygen Demand		6	
	Chloride		8	
	Cobalt			18
	Iron		6	
	Magnesium			22
	Manganese	-16		
	Nitrogen, Ammonia		7	
	pH		0	
	Specific Conductance		12	
	Sulfate		6	

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-6	Arsenic		4	
	Boron	-18		
	Chemical Oxygen Demand	-15		
	Chloride		4	
	Cobalt	-18		
	Iron		9	
	Magnesium		-3	
	Manganese		4	
	Nickel	-20		
	Nitrogen, Ammonia		-10	
	pH		2	
	Specific Conductance	-14		
	Sulfate		-8	
MW-7	Arsenic		-4	
	Boron		2	
	Chemical Oxygen Demand	-14		
	Chloride		2	
	Cobalt		-6	
	Iron		0	
	Magnesium		2	
	Manganese		4	
	Nitrogen, Ammonia		-6	
	pH		-7	
	Specific Conductance		0	
	Total Phenols		-1	
MW-8	Boron		-2	
	Chemical Oxygen Demand		-1	
	Chloride			18
	Iron		-3	
	Nitrogen, Ammonia		-6	
	pH		9	
	Specific Conductance			14
	Sulfate		-2	
MW-9	Acenaphthene	-14		
	Acenaphthylene	-16		
	Arsenic		12	
	Benzene		-8	
	Boron		10	
	Carbon Disulfide		2	
	Chemical Oxygen Demand		-12	
	Chloride		8	
	Cobalt			16
	Fluorene	-18		
	Iron		0	
	Magnesium		8	
	Manganese		-2	
	Nitrogen, Ammonia		4	
	pH		7	
	Specific Conductance		8	
	Sulfate		8	
	Toluene		4	
	Total Phenols	-24		

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-10	Boron			18
	Chemical Oxygen Demand		11	
	Chloride		8	
	Cobalt		-9	
	Iron			10
	Magnesium		-4	
	Manganese	-14		
	Nitrogen, Ammonia		6	
	pH		10	
	Specific Conductance		10	
	Sulfate		0	
MW-11	Acenaphthene	-18		
	Acenaphthylene		-9	
	Acetone		2	
	Arsenic			14
	Boron			18
	Carbon Disulfide		-2	
	Chemical Oxygen Demand	-16		
	Chloride		12	
	Cobalt	-16		
	Fluorene		-6	
	Iron		-5	
	Magnesium	-18		
	Manganese			16
	Nitrogen, Ammonia		-6	
	pH		6	
	Phenanthrene		-12	
	Specific Conductance		8	
MW-12	Arsenic		1	
	Boron	-15		
	Chemical Oxygen Demand	-14		
	Chloride	-26		
	Cobalt	-20		
	Iron	-11		
	Magnesium	-24		
	Manganese		-4	
	Nitrogen, Ammonia	-17		
	pH			13
	Specific Conductance	-14		
	Sulfate			18
MW-13	Arsenic		-4	
	Boron		-8	
	Chemical Oxygen Demand		-9	
	Chloride			20
	Cobalt		-2	
	Iron		-7	
	Magnesium		-10	
	Manganese		-6	
	Nitrogen, Ammonia		-8	
	pH		4	
	Specific Conductance		-8	
	Sulfate		1	

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-14	Boron		-2	
	Chemical Oxygen Demand		10	
	Chloride			20
	Cobalt		-6	
	Iron		-6	
	Magnesium			16
	Manganese		2	
	Nitrogen, Ammonia		-4	
	pH		-9	
	Specific Conductance			20
	Sulfate			18
MW-15	Arsenic		5	
	Boron		8	
	Chemical Oxygen Demand			16
	Chloride		-4	
	Cobalt		5	
	Iron		-1	
	Magnesium		7	
	Nitrogen, Ammonia		7	
	pH		4	
	Specific Conductance		8	
	Sulfate		-4	
MW-16	Boron	-14		
	Chemical Oxygen Demand		4	
	Chloride			20
	pH		8	
	Specific Conductance		6	
	Sulfate			14
MW-17	Boron		8	
	Chemical Oxygen Demand		2	
	Chloride		12	
	Magnesium		-12	
	Manganese		-6	
	Nickel		1	
	pH		6	
	Specific Conductance		8	
	Sulfate		-6	
MW-18	Arsenic		-8	
	Boron		8	
	Chemical Oxygen Demand		-2	
	Chloride		8	
	Cobalt		-4	
	Iron		1	
	Magnesium		12	
	Manganese		-6	
	Nitrogen, Ammonia		-4	
	pH		-7	
	Specific Conductance		8	
	Sulfate			26

Appendix F

2024 Leachate Control System Performance Evaluation Report

Table F1
Leachate Management Summary
2024 Leachate Control System Performance Evaluation Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Date of Measurement	Column in Piezometer (ft)										Discharge to	Leachate Testing Results		Precipitation
	PZ-1	PZ-3	PZ-5R	PZ-6R	PZ-7	PZ-8	PZ-9	PZ-10	PZ-11	PZ-12	Sanitary Sewer Line (gal)	pH (S.U.)	TKN (mg/L)	(in)
9/6/2023	11.09	23.22	2.25	0.90	12.37	17.70	7.75	17.49	14.02	10.89	-	-	-	3.31
10/10/2023	7.68	22.00	1.20	0.76	10.85	17.75	5.09	16.79	13.99	9.96	-	-	-	4.03
11/28/2023	7.53	21.97	1.11	0.71	10.60	17.66	5.08	16.25	14.20	9.91	-	-	-	0.76
12/19/2023	7.53	21.99	1.04	0.69	10.55	17.61	5.06	16.22	19.17	9.90	-	-	-	2.91
1/30/2024	6.69	21.96	1.03	0.20	10.45	17.12	5.48	16.19	15.19	9.83	-	-	-	2.86
2/28/2024	6.90	20.16	0.90	0.30	10.79	17.66	5.70	17.75	14.63	11.86	-	-	-	0.11
3/14/2024	6.63	21.91	0.98	0.15	10.45	17.10	25.46	16.15	14.17	9.80	-	-	-	2.55
4/10/2023	6.54	23.55	2.89	8.72	9.98	17.66	5.75	16.54	14.11	11.58	-	-	-	4.88
5/2/2024	6.61	23.56	2.27	6.17	10.02	17.95	24.10	16.55	13.97	11.44	-	-	-	2.70
6/18/2024	11.21	22.81	1.88	2.50	10.73	18.10	6.67	17.13	13.97	11.07	-	-	-	3.80
7/18/2024	12.09	23.28	13.82	2.26	10.94	17.27	16.54	16.65	14.75	10.83	-	-	-	5.19
8/14/2024	11.66	23.48	1.70	1.04	10.93	16.93	16.29	16.61	14.72	10.79	5,000	8.10	845	3.66
9/4/2024	9.57	23.35	1.66	0.73	11.14	17.38	7.37	16.50	13.97	10.89	-	-	-	0.54
Reporting Period Total											5,000			37.30

Notes:

1) Leachate column thicknesses for the reporting period generally remained consistent with historical measurements.
2) Historical leachate levels and graphs are provided in Attachment A.
3) Precipitation data for September 2023 - September 2024 obtained from weather.gov.
4) NA - Not Available.
5) NM - Not Measured.

Comments:

Reporting Period: September 2023 - September 2024.
Approved Changes to Leachate Collection System: None.
Proposed Changes to Leachate Collection System: None.
Maintenance Performed on Leachate Collection System: Extraction wells were flushed and verified for proper operation on 11/06/23 & 5/24/2024.
Last Date of Cleaning and Inspection: May 24, 2024
Date of Next Cleaning and Inspection: Anticipated semi-annually in 2024.
Volume of Leachate Recirculated: Not Applicable.
Volume of Leachate Treated Off-Site: 5,000 gallons were released to the City of Clinton POTW.
Leachate Quality Testing Results: Leachate quality testing results for the reporting period are provided in Table F1 and Appendix C.

SCS ENGINEERS
environmental consultants and contractors

Leachate Control System

Legend

- Approximate Monitoring Well Location
- Approximate Location of Extraction Well
- Approximate Location of Leachate Piezometer
- Approximate Location of Wet Well
- Leachate Storage Tank
- Leachate Piping
- Approximate Waste Boundary
- Approximate Property Boundary

ADM Clinton Landfill
Clinton, Iowa
Project No: 27224044.00
Drawing Date: November 2024

N
W
E
S

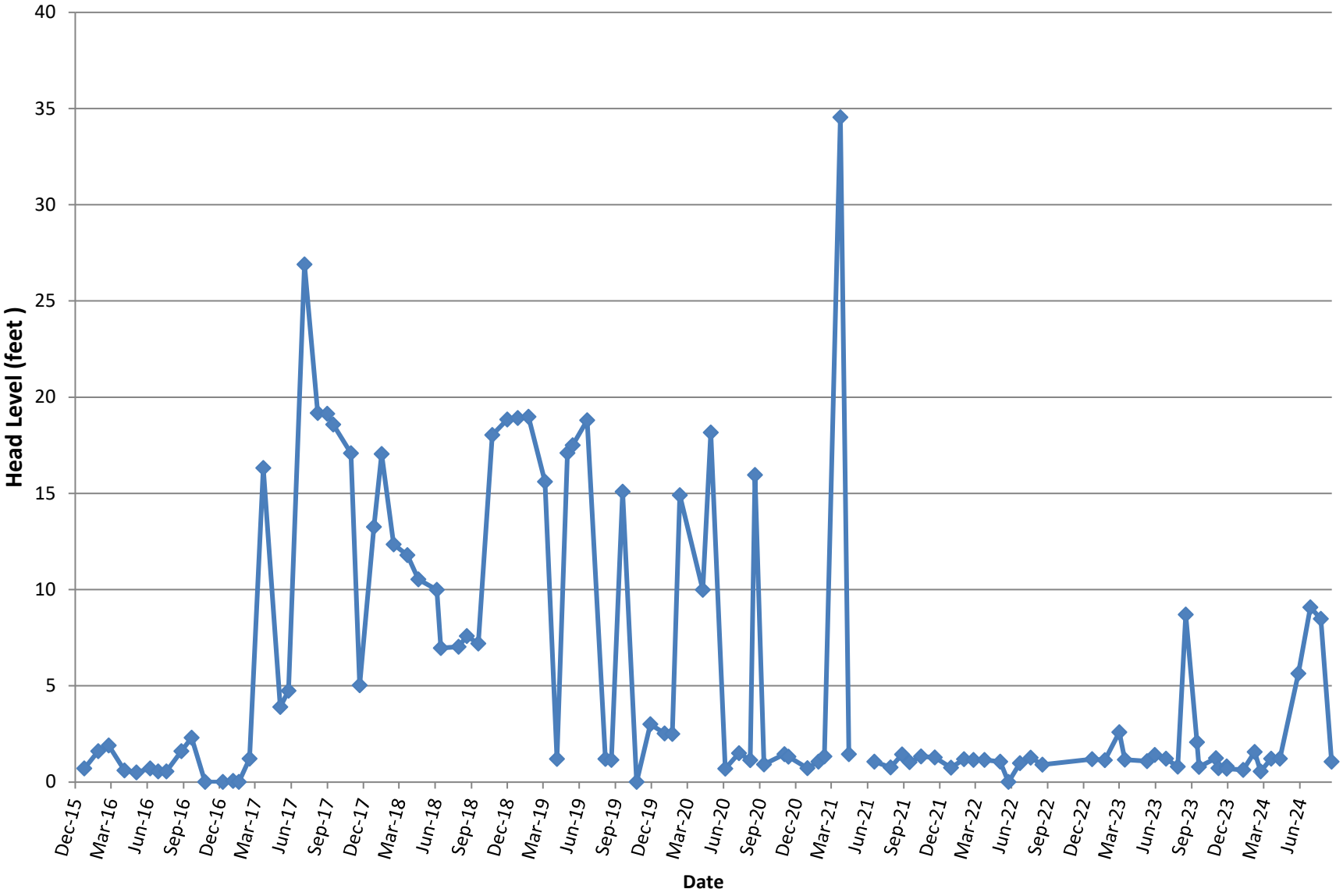
0 120 240 480 720
Feet

Figure 1

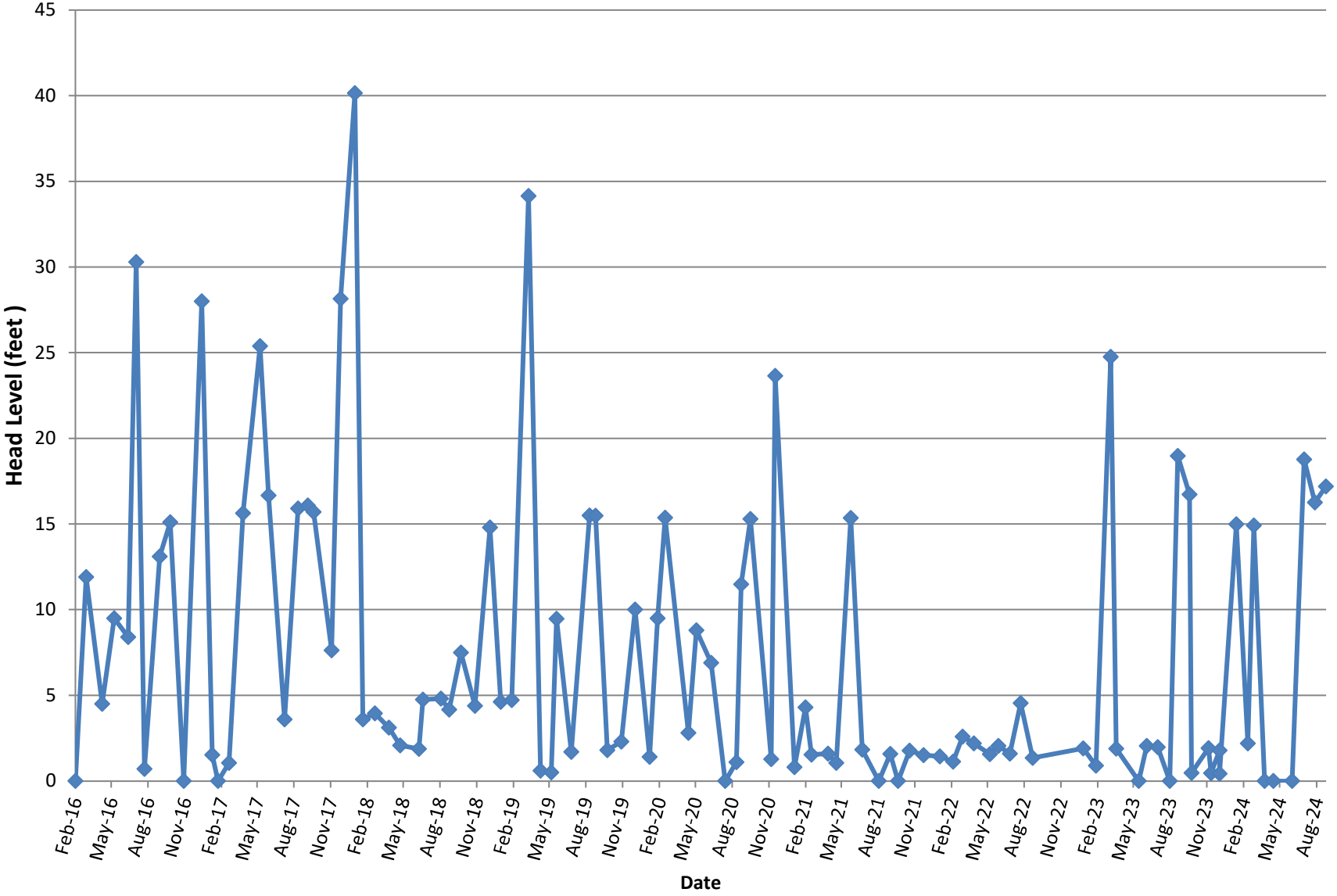
Attachment A

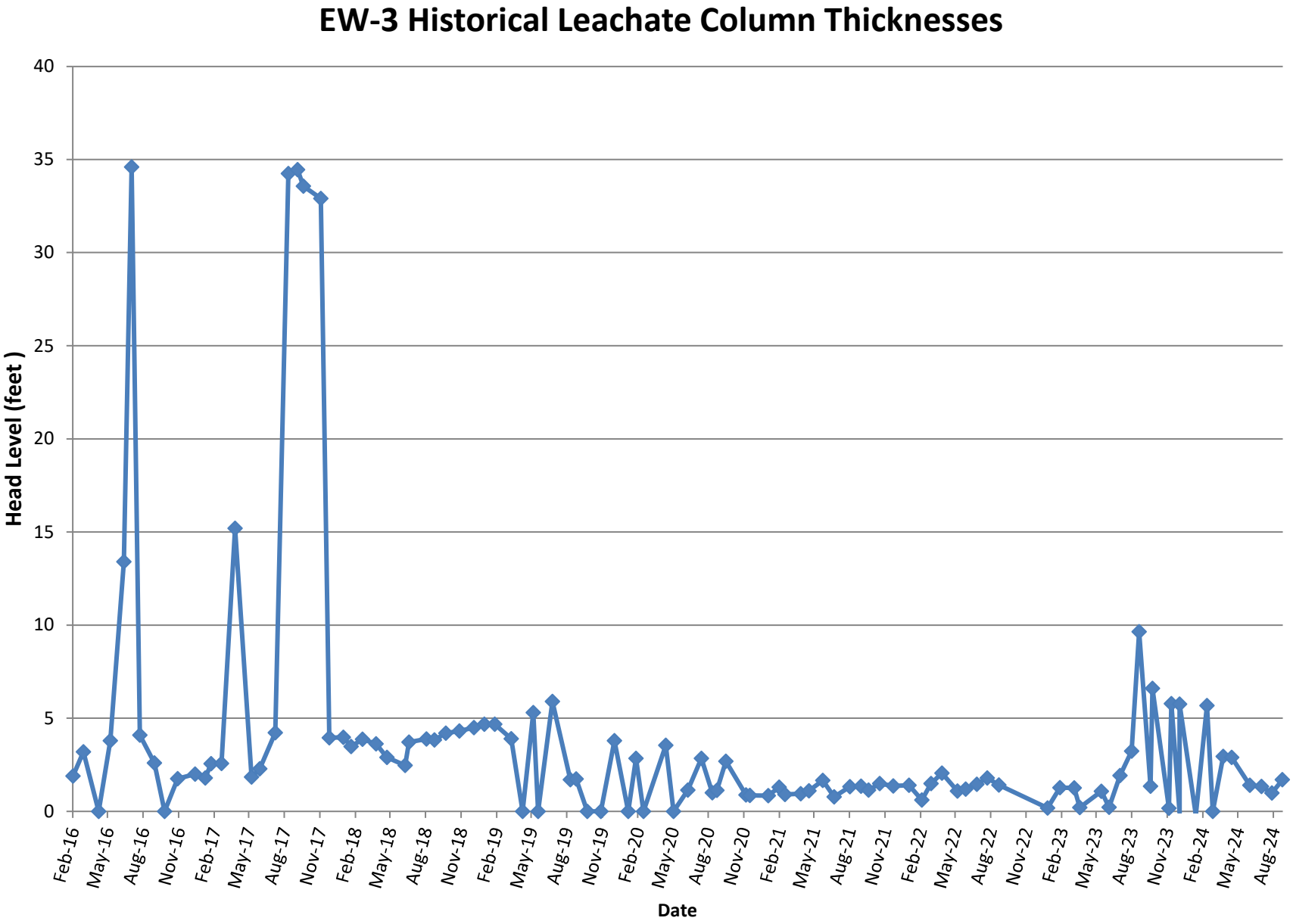
Historical Leachate Level Graphs

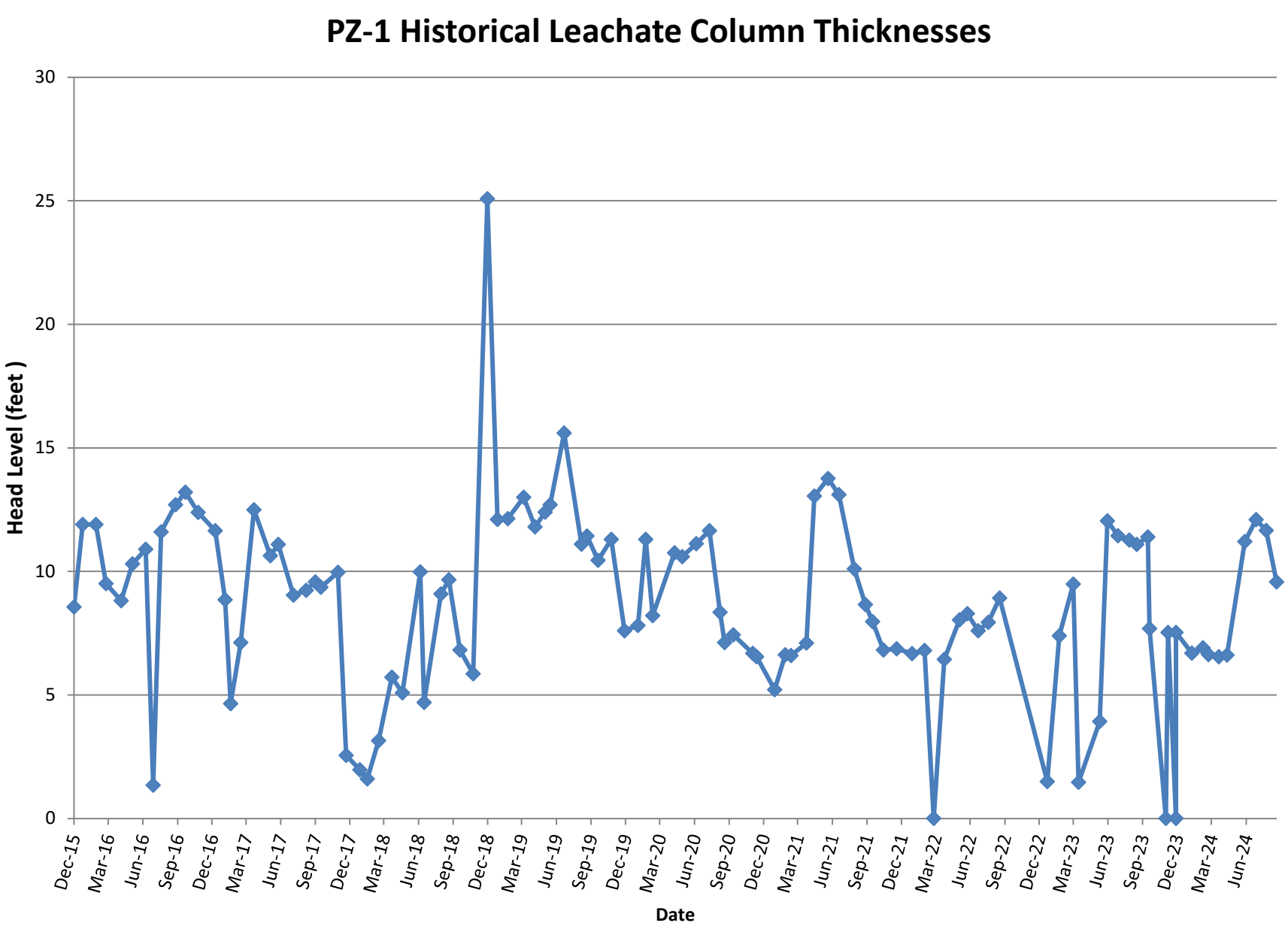
EW-1 Historical Leachate Column Thicknesses



EW-2 Historical Leachate Column Thicknesses




EW-3 Historical Leachate Column Thicknesses
Head Level (feet)
40
35
30
25
20
15
10
5
0
Feb-16
May-16
Aug-16
Nov-16
Feb-17
May-17
Aug-17
Nov-17
Feb-18
May-18
Aug-18
Nov-18
Feb-19
May-19
Aug-19
Nov-19
Feb-20
May-20
Aug-20
Nov-20
Feb-21
May-21
Aug-21
Nov-21
Feb-22
May-22
Aug-22
Nov-22
Feb-23
May-23
Aug-23
Nov-23
Feb-24
May-24
Aug-24
Date


PZ-1 Historical Leachate Column Thicknesses
Head Level (feet)
30
25
20
15
10
5
0
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19
Sep-19
Dec-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
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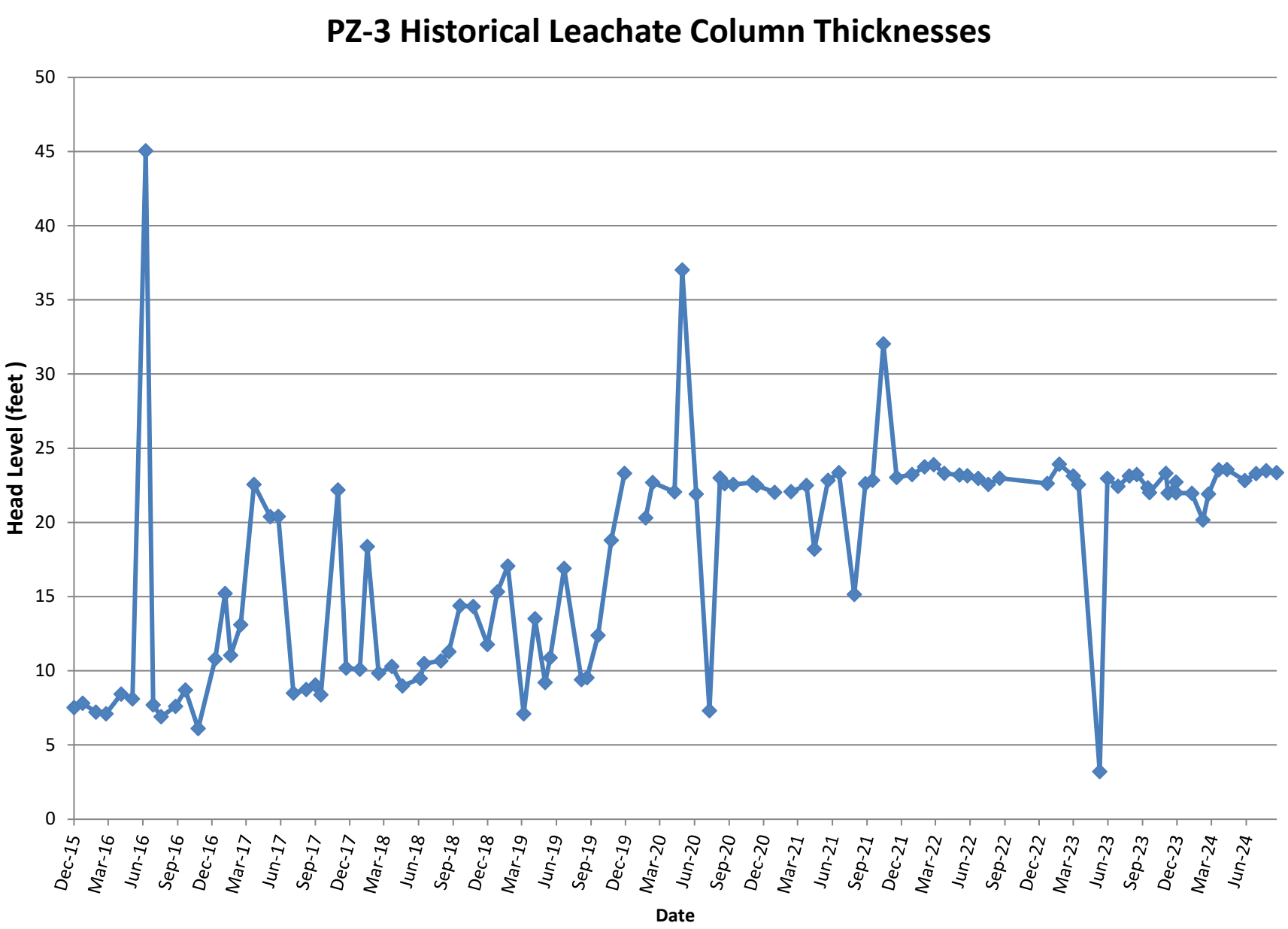
Dec-23
Mar-24
Jun-24
Date


PZ-3 Historical Leachate Column Thicknesses
Head Level (feet)
50
45
40
35
30
25
20
15
10
5
0
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19
Sep-19
Dec-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
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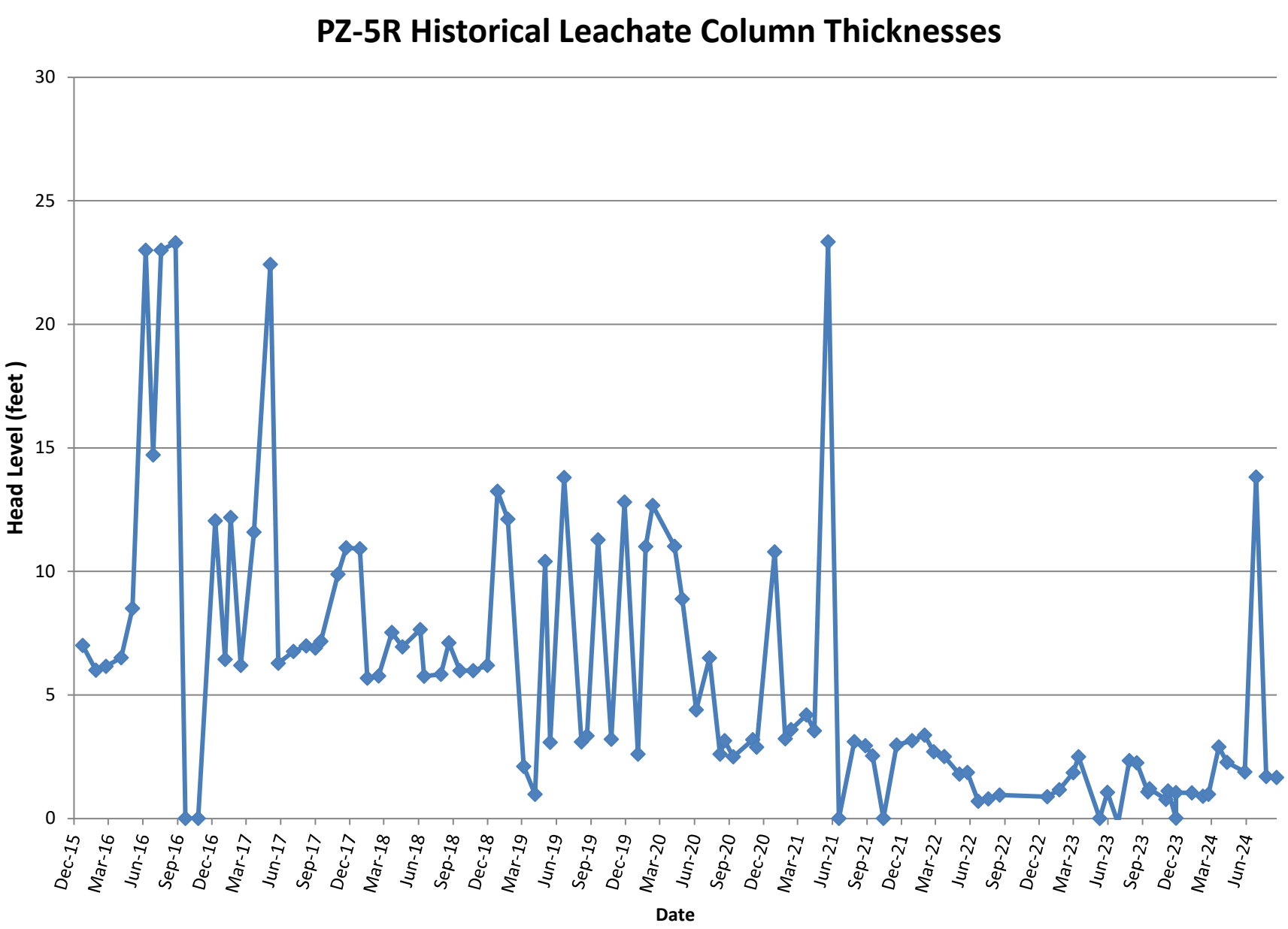
Dec-23
Mar-24
Jun-24
Date


PZ-5R Historical Leachate Column Thicknesses
Head Level (feet)
30
25
20
15
10
5
0
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19
Sep-19
Dec-19
Mar-20
Jun-20
Sep-20
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Mar-21
Jun-21
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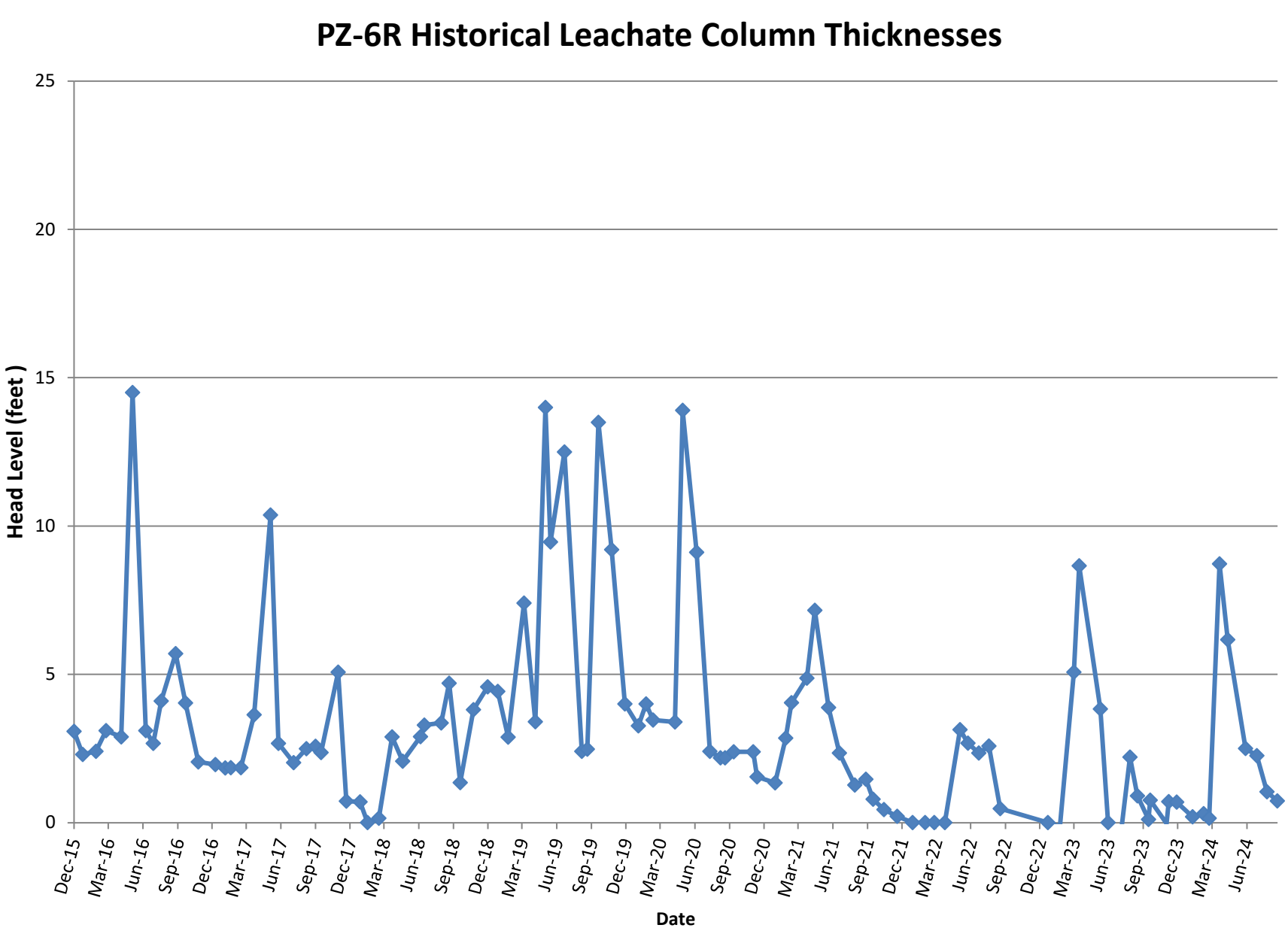
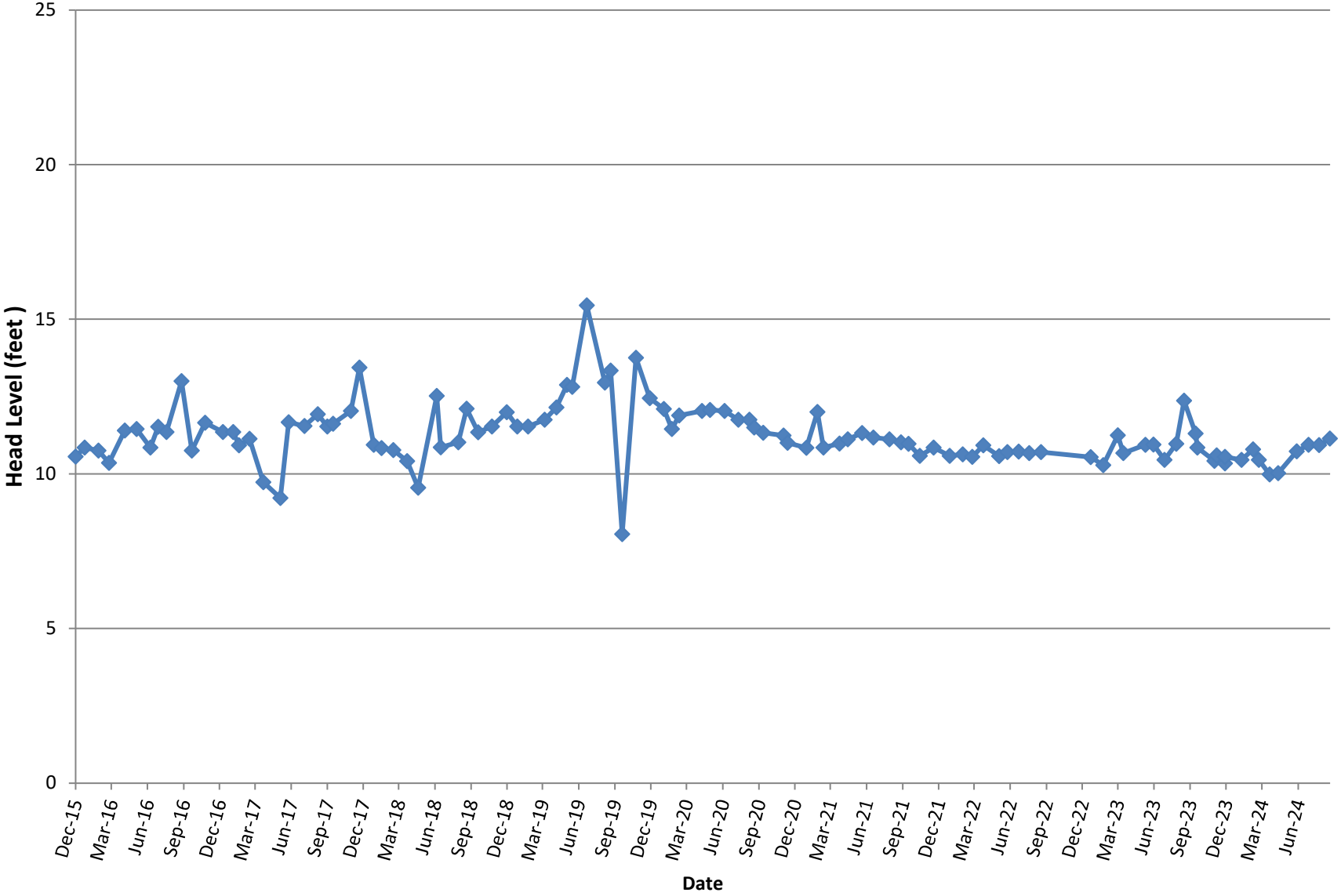
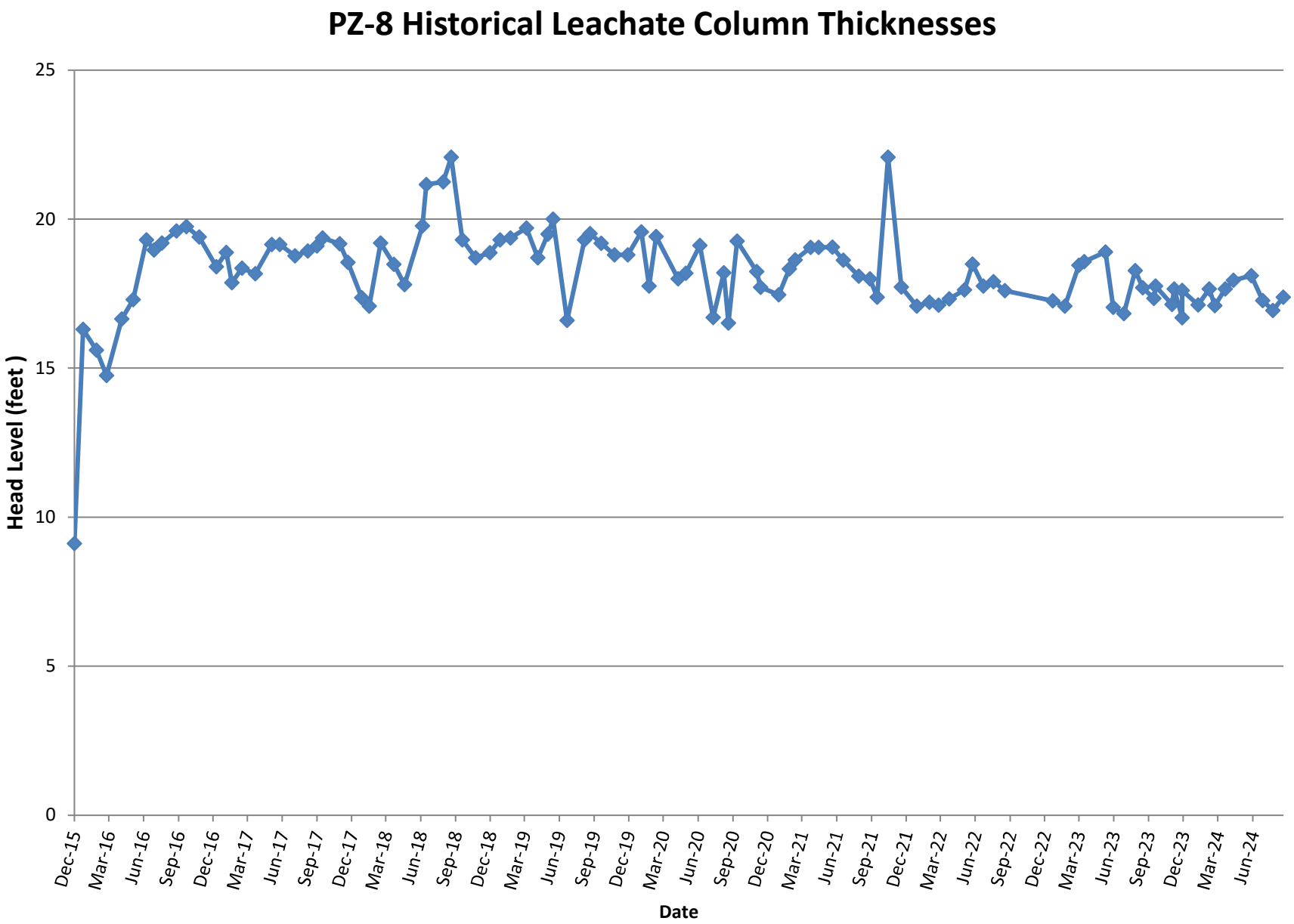
Dec-23
Mar-24
Jun-24
Date


PZ-6R Historical Leachate Column Thicknesses
Head Level (feet)
25
20
15
10
5
0
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19
Sep-19
Dec-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Dec-21
Mar-22
Jun-22
Sep-22
Dec-22
Mar-23
Jun-23
Sep-23
Dec-23
Mar-24
Jun-24
Date

PZ-7 Historical Leachate Column Thicknesses




PZ-8 Historical Leachate Column Thicknesses
Head Level (feet)
25
20
15
10
5
0
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19
Sep-19
Dec-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
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Dec-22
Mar-23
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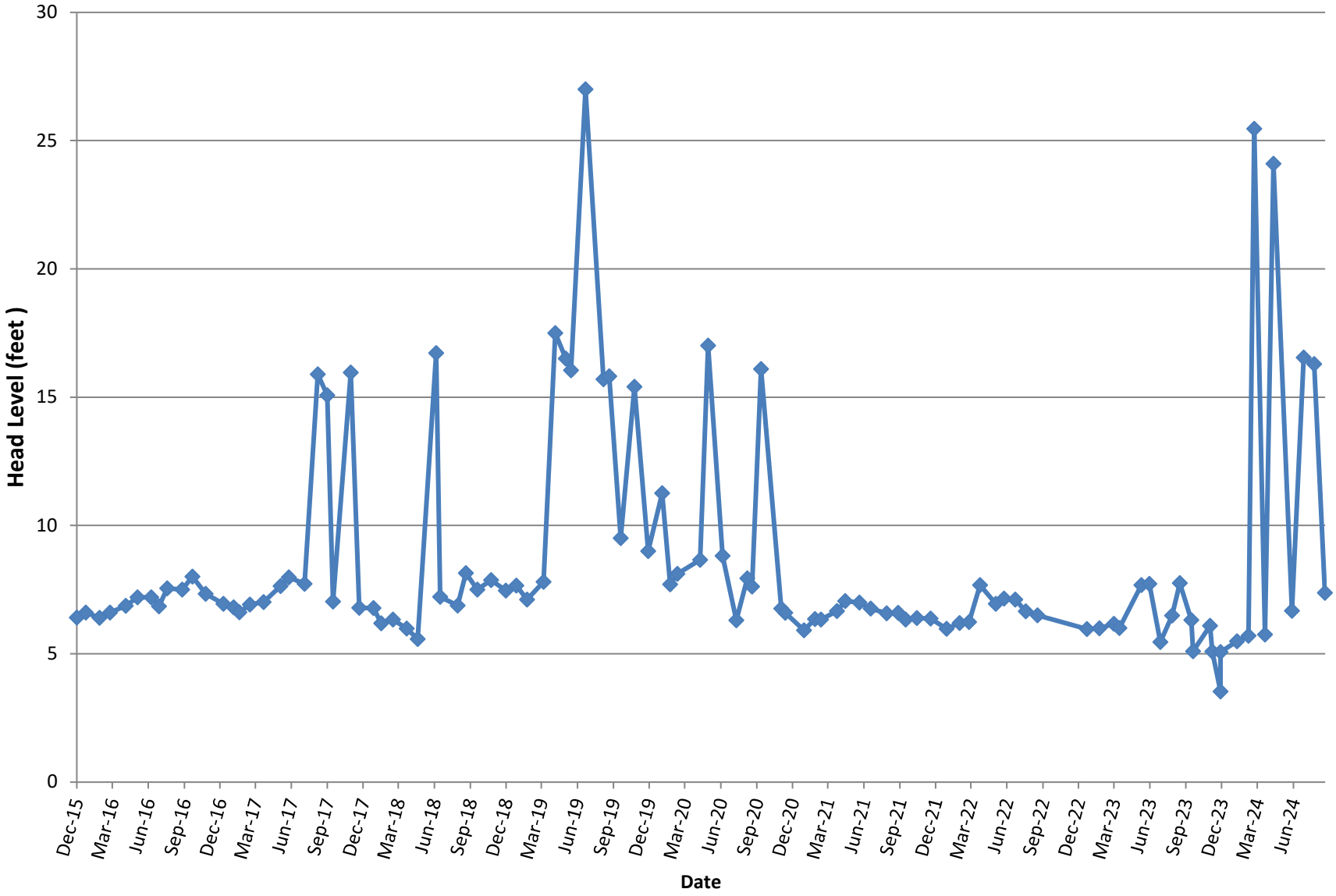
Sep-23
Dec-23
Mar-24
Jun-24
Date


PZ-9 Historical Leachate Column Thicknesses
Head Level (feet)
30
25
20
15
10
5
0
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19
Sep-19
Dec-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
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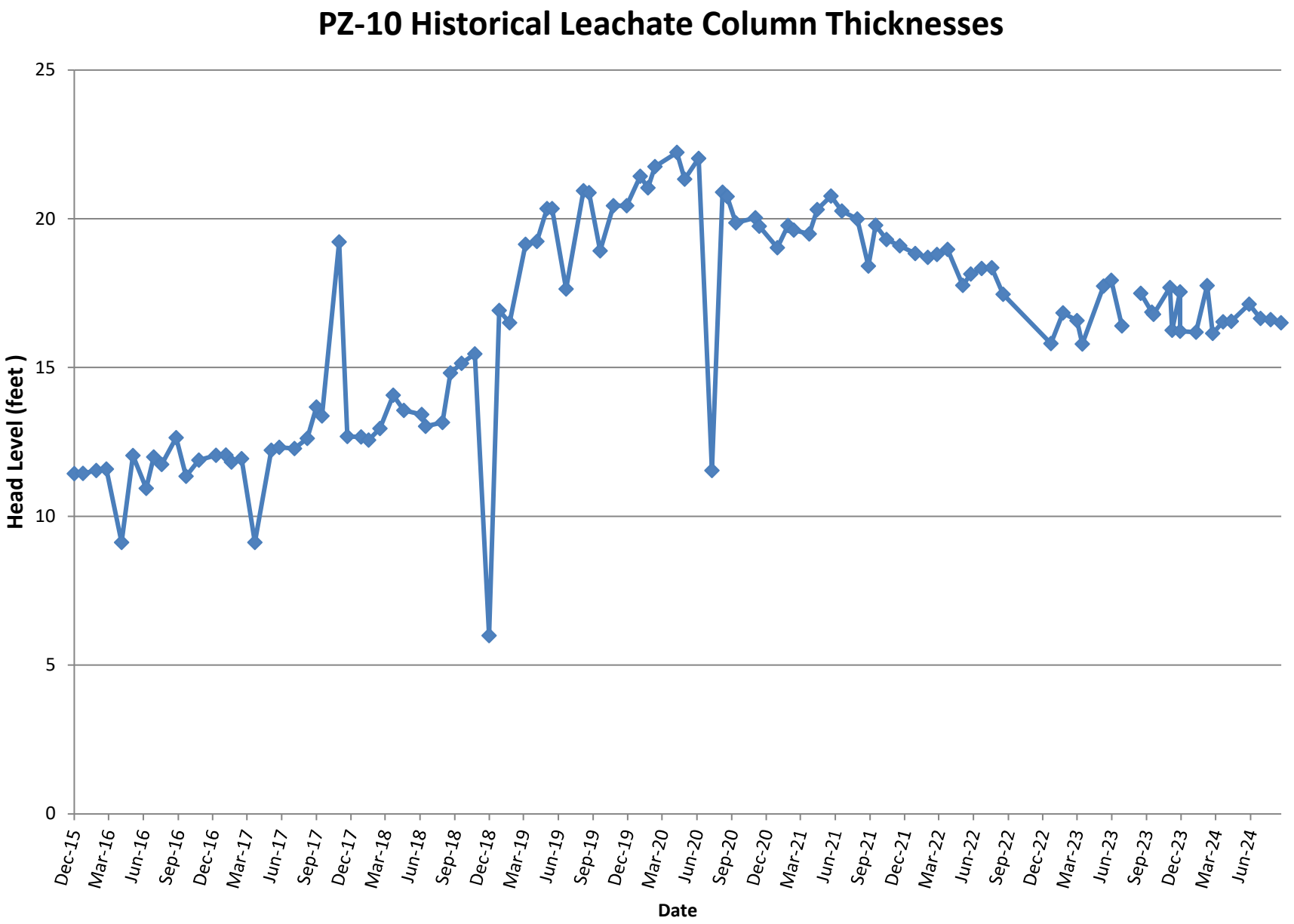
Mar-24
Jun-24
Date


PZ-10 Historical Leachate Column Thicknesses
Head Level (feet)
25
20
15
10
5
0
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19
Sep-19
Dec-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
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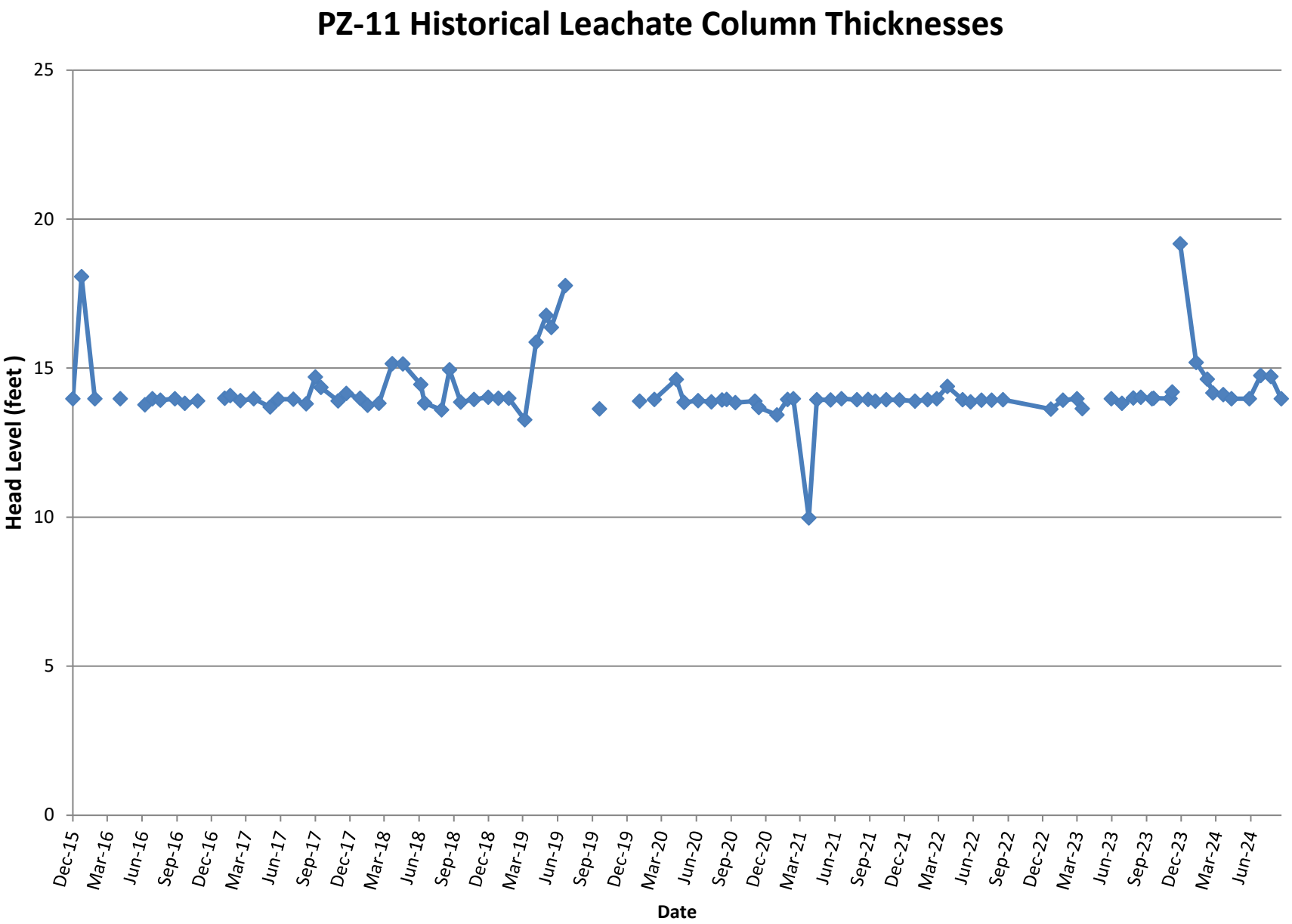
Dec-23
Mar-24
Jun-24
Date


PZ-11 Historical Leachate Column Thicknesses
Head Level (feet)
25
20
15
10
5
0
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19
Sep-19
Dec-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
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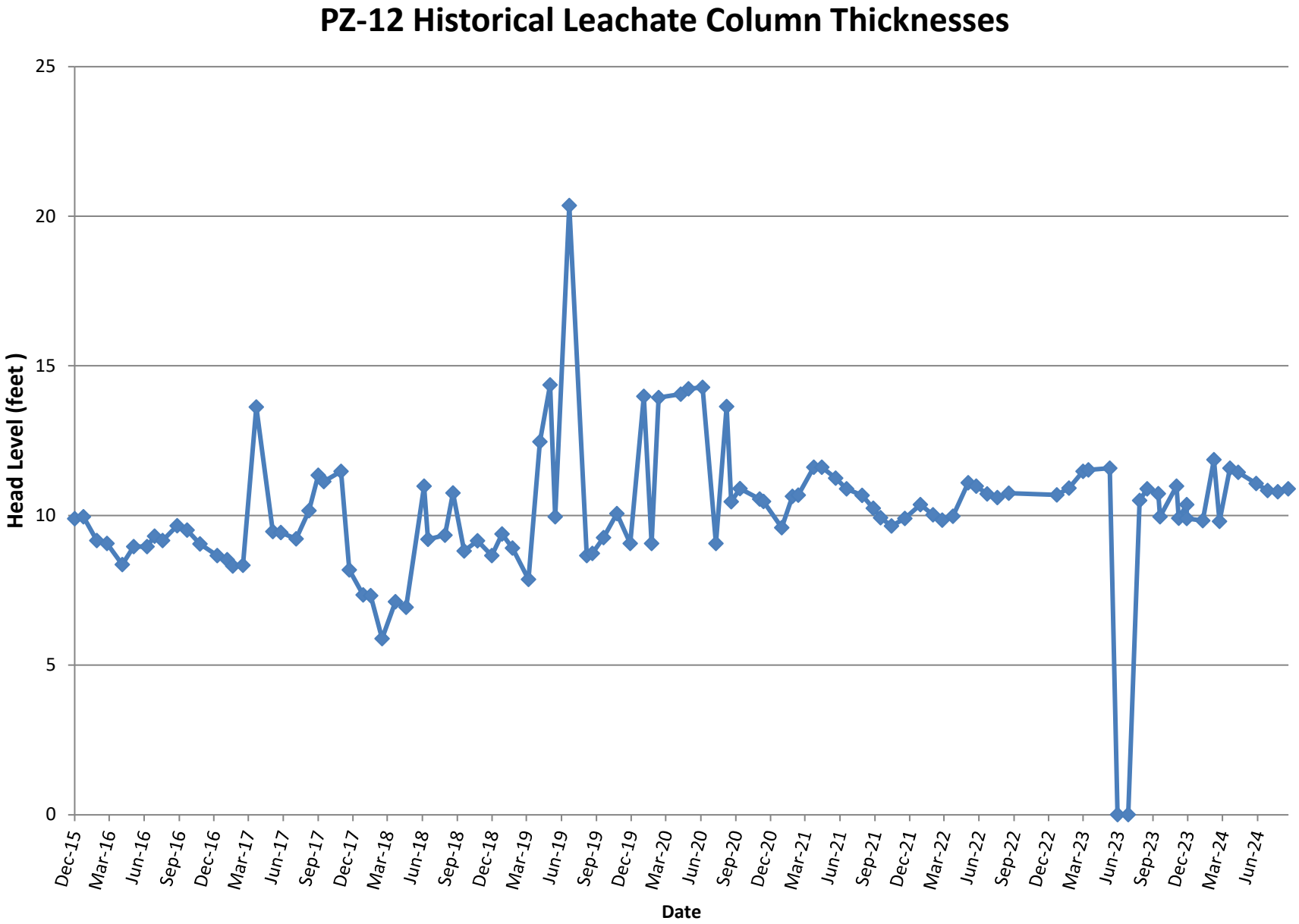
Dec-23
Mar-24
Jun-24
Date


PZ-12 Historical Leachate Column Thicknesses
Head Level (feet)
25
20
15
10
5
0
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19
Sep-19
Dec-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Dec-21
Mar-22
Jun-22
Sep-22
Dec-22
Mar-23
Jun-23
Sep-23
Dec-23
Mar-24
Jun-24
Date

Appendix G

2024 Landfill Gas Annual Report

Table G1
Landfill Gas Monitoring Summary
2024 Landfill Gas Monitoring Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Monitoring Points			Methane Results (% LEL)	
Name	**Type**	**Description**	**11/28/2023**	**S (Y/N)**
#1	Outdoor, ambient	Near MW-1/MW-2	0%	
#2	Outdoor, ambient	Near PZ-4; Destroyed	0%	
#3	Outdoor, ambient	Near MW-3/MW-4	0%	
#4	Outdoor, ambient	Near MW-5/MW-6	0%	
#5	Outdoor, ambient	Near MW-7/MW-8	0%	
#6	Outdoor, ambient	Near MW-9/MW-10	0%	
#7	Outdoor, ambient	Southwest side of landfill	0%	
#8	Outdoor, ambient	Near MW-13	0%	
#9	Outdoor, ambient	Near MW-14/MW-15	0%	
#10	Outdoor, ambient	Near MW-16	0%	
#11	Outdoor, ambient	North side of west half of landfill	0%	
#12	Outdoor, ambient	Near MW-17/MW-18	0%	
#13	Outdoor, ambient	North side of east half of landfill	0%	
#14	Outdoor, ambient	Near PZ-1	0%	
#15	Outdoor, ambient	Near PZ-2; Destroyed	0%	
#16	Outdoor, ambient	Near PZ-3	0%	
#17	Outdoor, ambient	Near PZ-5R	0%	
#18	Outdoor, ambient	Near PZ-6R	0%	
#19	Passive Vent Opening	Western-most Passive Gas Vent (PGV), near PZ-3	12%	
#20	Passive Vent Opening	Vent East of PGV #1	9%	
#21	Passive Vent Opening	Vent East of PGV #2	8%	
#22	Passive Vent Opening	Vent East of PGV #3	7%	
#23	Passive Vent Opening	Vent East of PGV #4	0%	
#24	Passive Vent Opening	Vent East of PGV #5	0%	
#25	Passive Vent Opening	Vent East of PGV #6	0%	
#26	Passive Vent Opening	Vent East of PGV #7	0%	
#27	Passive Vent Opening	Vent East of PGV #8	0%	
#28	Passive Vent Opening	Vent East of PGV #9	9%	
#29	Passive Vent Opening	Vent SE of Staging Area	0%	
#30	Passive Vent Opening	Vent NE of Staging Area	5%	

S(Y/N) - Was screen submerged, yes or no.

Table G1 - continued
Landfill Gas Monitoring Summary
2024 Landfill Gas Monitoring Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Monitoring Points			Methane Results (% LEL)	
Name	**Type**	**Description**	**2/28/2024**	**S (Y/N)**
#1	Outdoor, ambient	Near MW-1/MW-2	0%	
#2	Outdoor, ambient	Near PZ-4; Destroyed	0%	
#3	Outdoor, ambient	Near MW-3/MW-4	0%	
#4	Outdoor, ambient	Near MW-5/MW-6	0%	
#5	Outdoor, ambient	Near MW-7/MW-8	0%	
#6	Outdoor, ambient	Near MW-9/MW-10	0%	
#7	Outdoor, ambient	Southwest side of landfill	0%	
#8	Outdoor, ambient	Near MW-13	0%	
#9	Outdoor, ambient	Near MW-14/MW-15	0%	
#10	Outdoor, ambient	Near MW-16	0%	
#11	Outdoor, ambient	North side of west half of landfill	0%	
#12	Outdoor, ambient	Near MW-17/MW-18	0%	
#13	Outdoor, ambient	North side of east half of landfill	0%	
#14	Outdoor, ambient	Near PZ-1	0%	
#15	Outdoor, ambient	Near PZ-2; Destroyed	0%	
#16	Outdoor, ambient	Near PZ-3	0%	
#17	Outdoor, ambient	Near PZ-5R	0%	
#18	Outdoor, ambient	Near PZ-6R	0%	
#19	Passive Vent Opening	Western-most Passive Gas Vent (PGV), near PZ-3	0%	
#20	Passive Vent Opening	Vent East of PGV #1	0%	
#21	Passive Vent Opening	Vent East of PGV #2	0%	
#22	Passive Vent Opening	Vent East of PGV #3	0%	
#23	Passive Vent Opening	Vent East of PGV #4	0%	
#24	Passive Vent Opening	Vent East of PGV #5	0%	
#25	Passive Vent Opening	Vent East of PGV #6	0%	
#26	Passive Vent Opening	Vent East of PGV #7	0%	
#27	Passive Vent Opening	Vent East of PGV #8	0%	
#28	Passive Vent Opening	Vent East of PGV #9	0%	
#29	Passive Vent Opening	Vent SE of Staging Area	0%	
#30	Passive Vent Opening	Vent NE of Staging Area	0%	

S(Y/N) - Was screen submerged, yes or no.

Table G1 - continued
Landfill Gas Monitoring Summary
2024 Landfill Gas Monitoring Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

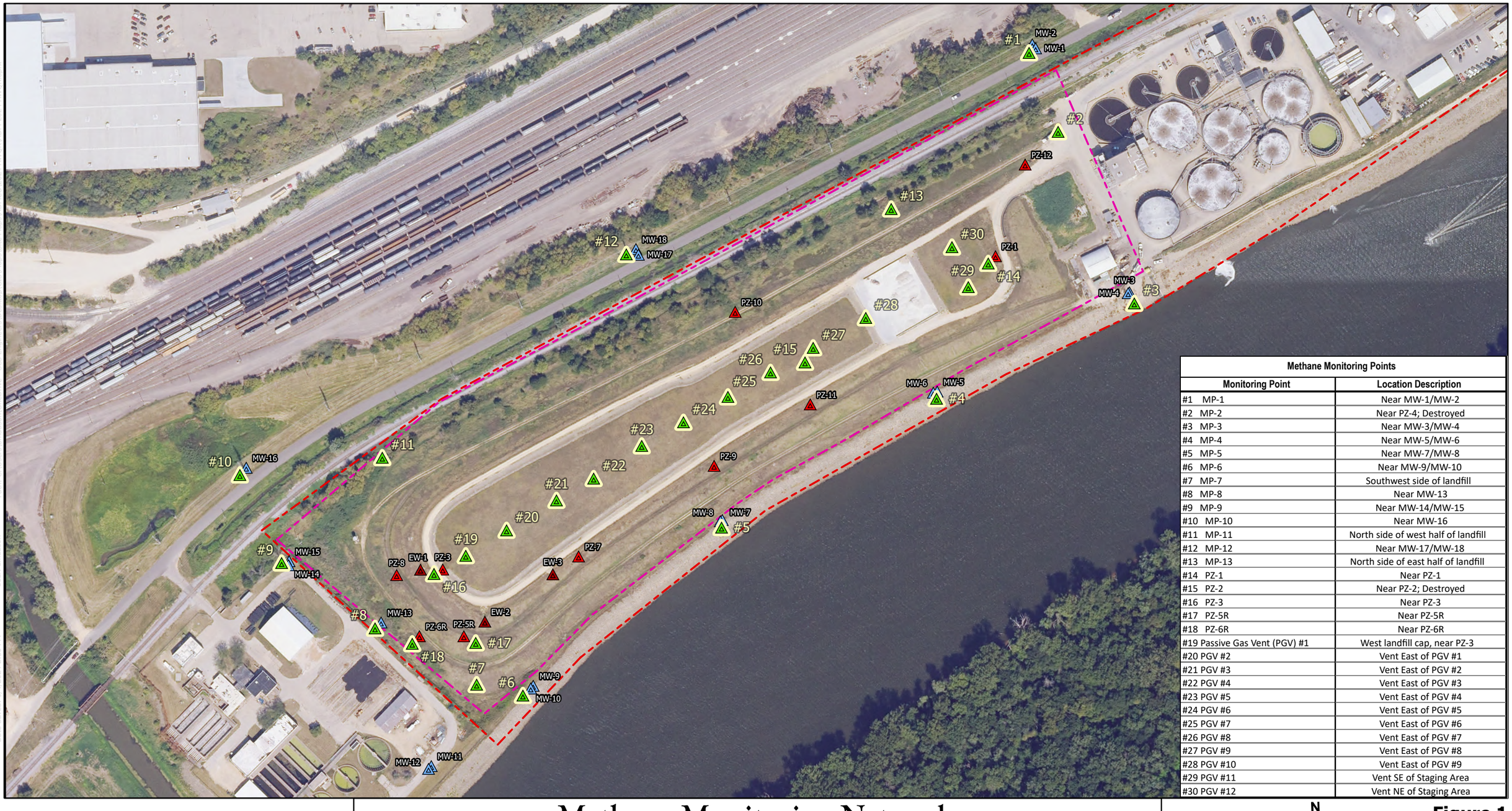
Monitoring Points			Methane Results (% LEL)	
Name	**Type**	**Description**	**5/2/2024**	**S (Y/N)**
#1	Outdoor, ambient	Near MW-1/MW-2	0%	
#2	Outdoor, ambient	Near PZ-4; Destroyed	0%	
#3	Outdoor, ambient	Near MW-3/MW-4	0%	
#4	Outdoor, ambient	Near MW-5/MW-6	0%	
#5	Outdoor, ambient	Near MW-7/MW-8	0%	
#6	Outdoor, ambient	Near MW-9/MW-10	0%	
#7	Outdoor, ambient	Southwest side of landfill	0%	
#8	Outdoor, ambient	Near MW-13	0%	
#9	Outdoor, ambient	Near MW-14/MW-15	0%	
#10	Outdoor, ambient	Near MW-16	0%	
#11	Outdoor, ambient	North side of west half of landfill	0%	
#12	Outdoor, ambient	Near MW-17/MW-18	0%	
#13	Outdoor, ambient	North side of east half of landfill	0%	
#14	Outdoor, ambient	Near PZ-1	0%	
#15	Outdoor, ambient	Near PZ-2; Destroyed	0%	
#16	Outdoor, ambient	Near PZ-3	0%	
#17	Outdoor, ambient	Near PZ-5R	0%	
#18	Outdoor, ambient	Near PZ-6R	0%	
#19	Passive Vent Opening	Western-most Passive Gas Vent (PGV), near PZ-3	0%	
#20	Passive Vent Opening	Vent East of PGV #1	0%	
#21	Passive Vent Opening	Vent East of PGV #2	11%	
#22	Passive Vent Opening	Vent East of PGV #3	7%	
#23	Passive Vent Opening	Vent East of PGV #4	9%	
#24	Passive Vent Opening	Vent East of PGV #5	0%	
#25	Passive Vent Opening	Vent East of PGV #6	0%	
#26	Passive Vent Opening	Vent East of PGV #7	20%	
#27	Passive Vent Opening	Vent East of PGV #8	0%	
#28	Passive Vent Opening	Vent East of PGV #9	0%	
#29	Passive Vent Opening	Vent SE of Staging Area	0%	
#30	Passive Vent Opening	Vent NE of Staging Area	0%	

S(Y/N) - Was screen submerged, yes or no.

Table G1 - continued
Landfill Gas Monitoring Summary
2024 Landfill Gas Monitoring Report
ADM-Clinton Landfill
Permit No. 23-SDP-05-88C

Monitoring Points			Methane Results (% LEL)	
Name	**Type**	**Description**	**8/14/2024**	**S (Y/N)**
#1	Outdoor, ambient	Near MW-1/MW-2	0%	
#2	Outdoor, ambient	Near PZ-4; Destroyed	0%	
#3	Outdoor, ambient	Near MW-3/MW-4	0%	
#4	Outdoor, ambient	Near MW-5/MW-6	0%	
#5	Outdoor, ambient	Near MW-7/MW-8	0%	
#6	Outdoor, ambient	Near MW-9/MW-10	0%	
#7	Outdoor, ambient	Southwest side of landfill	0%	
#8	Outdoor, ambient	Near MW-13	0%	
#9	Outdoor, ambient	Near MW-14/MW-15	0%	
#10	Outdoor, ambient	Near MW-16	0%	
#11	Outdoor, ambient	North side of west half of landfill	0%	
#12	Outdoor, ambient	Near MW-17/MW-18	0%	
#13	Outdoor, ambient	North side of east half of landfill	0%	
#14	Outdoor, ambient	Near PZ-1	0%	
#15	Outdoor, ambient	Near PZ-2; Destroyed	0%	
#16	Outdoor, ambient	Near PZ-3	0%	
#17	Outdoor, ambient	Near PZ-5R	0%	
#18	Outdoor, ambient	Near PZ-6R	0%	
#19	Passive Vent Opening	Western-most Passive Gas Vent (PGV), near PZ-3	12%	
#20	Passive Vent Opening	Vent East of PGV #1	13%	
#21	Passive Vent Opening	Vent East of PGV #2	12%	
#22	Passive Vent Opening	Vent East of PGV #3	6%	
#23	Passive Vent Opening	Vent East of PGV #4	5%	
#24	Passive Vent Opening	Vent East of PGV #5	1%	
#25	Passive Vent Opening	Vent East of PGV #6	6%	
#26	Passive Vent Opening	Vent East of PGV #7	1%	
#27	Passive Vent Opening	Vent East of PGV #8	3%	
#28	Passive Vent Opening	Vent East of PGV #9	2%	
#29	Passive Vent Opening	Vent SE of Staging Area	0%	
#30	Passive Vent Opening	Vent NE of Staging Area	0%	

S(Y/N) - Was screen submerged, yes or no.



Methane Monitoring Points	
Monitoring Point	**Location Description**
#1 MP-1	Near MW-1/MW-2
#2 MP-2	Near PZ-4; Destroyed
#3 MP-3	Near MW-3/MW-4
#4 MP-4	Near MW-5/MW-6
#5 MP-5	Near MW-7/MW-8
#6 MP-6	Near MW-9/MW-10
#7 MP-7	Southwest side of landfill
#8 MP-8	Near MW-13
#9 MP-9	Near MW-14/MW-15
#10 MP-10	Near MW-16
#11 MP-11	North side of west half of landfill
#12 MP-12	Near MW-17/MW-18
#13 MP-13	North side of east half of landfill
#14 PZ-1	Near PZ-1
#15 PZ-2	Near PZ-2; Destroyed
#16 PZ-3	Near PZ-3
#17 PZ-5R	Near PZ-5R
#18 PZ-6R	Near PZ-6R
#19 Passive Gas Vent (PGV) #1	West landfill cap, near PZ-3
#20 PGV #2	Vent East of PGV #1
#21 PGV #3	Vent East of PGV #2
#22 PGV #4	Vent East of PGV #3
#23 PGV #5	Vent East of PGV #4
#24 PGV #6	Vent East of PGV #5
#25 PGV #7	Vent East of PGV #6
#26 PGV #8	Vent East of PGV #7
#27 PGV #9	Vent East of PGV #8
#28 PGV #10	Vent East of PGV #9
#29 PGV #11	Vent SE of Staging Area
#30 PGV #12	Vent NE of Staging Area

SCS ENGINEERS
environmental consultants and contractors

Methane Monitoring Network

Legend

- Methane Monitoring Point
- Approximate Monitoring Well Location
- Approximate Location of Extraction Well
- Approximate Location of Leachate Piezometer
- Approximate Waste Boundary
- Approximate Property Boundary

ADM Clinton Landfill
Clinton, Iowa
Project No: 27224044.00
Drawing Date: November 2024

Figure 1

N
W E
S

0 120 240 480 720 Feet