

November 14, 2023
File No. 27223220.24

Mr. Mike Smith, P.E.
Iowa Department of Natural Resources
Land Quality Bureau
Wallace State Office Building
502 East 9th Street
Des Moines, Iowa 50319-0034

Subject: 2023 Annual Water Quality Report
Henry County Sanitary Landfill
Permit No. 44-SDP-01-75C

Dear Mike:

SCS Engineers, on behalf of the Henry County Solid Waste Commission, has completed the water quality assessment for the closed Henry County Sanitary Landfill for the year 2023. Our services were performed in general accordance with the requirements of the 1989 Iowa Administrative Code 567-103.2(8)"d," the site permit, and applicable permit amendments for implementation of the Hydrologic Monitoring System Plan. Please find enclosed a copy of the 2023 Annual Water Quality Report for the Henry County Sanitary Landfill.

If you have any questions regarding this report, please contact Nathan Ohrt at (319) 331-9613.

Sincerely,



Nathan Ohrt
Senior Project Professional
SCS Engineers



Timothy C. Buelow, P.E.
Project Director
SCS Engineers

NPO/TCB

Copies: Mr. Steve Brimhall, Henry County Solid Waste Commission



2023 ANNUAL WATER QUALITY REPORT

HENRY COUNTY SANITARY LANDFILL (CLOSED)
MOUNT PLEASANT, IOWA

PERMIT No. 44-SDP-01-75C
PROJECT No. 27223220.24
NOVEMBER 2023



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: 11/4/2023

Timothy C. Buelow, P.E.

License No. 14445

My license renewal date is December 31, 2023.

Pages or sheets covered by this seal:

All except Appendix B-1.

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Section 1.0 Introduction

SCS Engineers (SCS), on behalf of the Henry County Solid Waste Commission, has completed the required groundwater sampling and data analysis for the closed Henry County Sanitary Landfill (Landfill) for the year 2023. This report was prepared in general accordance with the requirements of the 1989 Iowa Administrative Code (IAC) 567-103(455B), the site permit issued March 30, 1994 (Doc #20420), and applicable permit amendments. This report summarizes the groundwater monitoring program and provides analysis of the data collected.

1.1 Report Priority

It is recommended that leachate levels be measured annually and reported in the biennial AWQRs.

1.2 Response to DNR Correspondence

In correspondence dated February 9, 2023 (Doc #105793), the Iowa Department of Natural Resources (DNR) requested that a recommendation for future gas monitoring activities should be made in the 2023 Annual Water Quality Report. Due to the on-site buildings and the periodic landfill gas detections, a semi-annual frequency for the entire landfill gas monitoring network is recommended and notice of exceedances be submitted to the DNR when they occur.

1.3 Site Location

The Landfill property is depicted on Figure 1-1, Approved Monitoring Network. The Landfill is located on Kentucky Avenue approximately 4 miles south of Mount Pleasant, Iowa. The Landfill consists of approximately 27 acres and is located within the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 34 and part of the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 33, T71N, R6W, in Henry County, Iowa.

1.4 Background

The Landfill property was leased by the Henry County Solid Waste Commission for use as a sanitary landfill from 1975 until closure activities were initiated in June 1990. Waste streams deposited at the site included typical solid wastes from municipalities, industries, and unincorporated areas within Henry County. Prior to use as a landfill, the site consisted of a wooded ravine with surrounding upland areas periodically used for agriculture. The closure permit was issued on March 30, 1994.

1.5 HSMP Groundwater Monitoring

Table 1-1 summarizes the groundwater sampling performed during the March and September 2023 sampling events.

The “Supplemental VOCs” listed in Table 1-1 and further referenced throughout this report are benzene, cis-1,2-dichloroethene, methylene chloride, trichloroethene, 1,1-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, and vinyl chloride.

Table 1-1
2023 AWQR Reporting Period Monitoring Summary

Unit	Monitoring Point	March 2023	September 2023
Glacial Till	MW-10		Appendix I, TSS
	MW-15		Appendix I, TSS
	MW-16R		Supplemental VOCs
	MW-19		Appendix I, TSS
	MW-20		Appendix I, TSS
	MW-23		Supplemental VOCs
	MW-24		Supplemental VOCs
	MW-27		Supplemental VOCs
	MW-28		Supplemental VOCs
	MW-29		Supplemental VOCs
	MW-32	Supplemental VOCs	Supplemental VOCs
	MW-34		Supplemental VOCs
	MW-35		Supplemental VOCs
Deep Sand	MW-8		Appendix I, TSS
	MW-13		Supplemental VOCs
	MW-21	Supplemental VOCs	Supplemental VOCs
	MW-22		Supplemental VOCs
	MW-25		Supplemental VOCs
	MW-26		Supplemental VOCs
	MW-30		Supplemental VOCs
	MW-31		Supplemental VOCs
	MW-36		Supplemental VOCs
	MW-37		Supplemental VOCs
Bedrock	MW-4		Appendix I, TSS
	MW-6		Appendix I, TSS
	MW-5	Water Level	Water Level
	MW-7	Water Level	Water Level
	MW-9	Water Level	Water Level

TSS – Total Suspended Solids

Field sampling forms and laboratory analytical data sheets for the 2023 sampling events are included in Appendices A and B-1, respectively. A Summary of Groundwater Chemistry is included in Appendix C.

1.6 Leachate Levels

In accordance with the site permit, leachate levels from leachate piezometers LP-1, LP-2, and LP-3 were measured during the 2023 sampling events. Leachate level data and graphs from April 1994 through October 2008 and October 2012 through September 2023 are included in Appendix D. The leachate thicknesses measured in the leachate piezometers were within historical ranges during this reporting period, although the thickness in LP-2 in September 2023 was the lowest since 2018. Due to generally stable leachate levels in the period of record, it is recommended that leachate level measurements be collected annually beginning in 2024 for leachate piezometers LP-1, LP-2 and LP-3 to evaluate leachate level trends.



GEODATA, Esri, HERE, Garmin, Foursquare, FAO, METI/NASA, USGS, Esri, CGIAR, USGS

Section 2.0 Hydrogeologic Site Summary

2.1 Geology

The geology in the area of the Landfill was described in previous assessments. Below is an excerpt from the Hydrogeologic Investigation Report and Hydrologic Monitoring System Plan, Shive-Hattery Engineers and Architects, Inc., March 1992, revised September 1992.

The typical upland soil profile at the site is as follows:

- Loess - 10 to 20 feet: sandy/clayey silt.*
- Glacial Till - 15 to 80 feet, upper 15 to 25 feet typically weathered: sandy/silty clay; trace gravel and sand seams.*
- Sand - 15 to 25 feet, mainly in depressions above bedrock.*
- Bedrock - Mississippian System, Osagean Series.*

The Mississippian Aquifer was encountered at elevations ranging from 610 to 627 feet USGS Datum in the previous borings at the site, and as high as 658 feet in the recent study. Overall, the Mississippian age rock is between 200 and 300 feet thick in this area and consists primarily of water bearing limestone and dolostone. It also includes less conductive zones of shale and siltstone.

Based on the bedrock map taken from "The Stratigraphic and Structural Geology of Henry County, Iowa;" 1967 M.S. Thesis by Mark A. Sholes, Department of Geology, University of Iowa, and confirmed by observations of both outcrops and rock cuttings, the uppermost bedrock below the site belongs to the upper formation of the middle Mississippian, referred to as the Warsaw Shale. The Warsaw formation is an erosional surface with variable thickness from 15 to 60 feet. The upper part consists of relatively soft light gray slightly dolomitic shale, and the lower part is a light bluish-gray dolomitic shale which is characteristically blocky and harder than the upper part. The upper and lower portions are separated by 1 to 3 feet of geode bearing argillaceous dolomite. The rock cuttings obtained during this investigation also correlate to the Keokuk formation below, which is described as 40 to 90 feet of thin gray to brownish gray, argillaceous beds of limestone and dolomitic limestone interbedded with layers of soft, bluish-gray shale. The deepest boring during this investigation may have penetrated the coarsely crystalline limestone of the Cedar Fork formation situated below the Keokuk formation.

Siltstone and shale are abundant at the contact between the Devonian and Mississippian deposits. The shale of the Yellow Spring Group, which forms the upper part of the Devonian, presents a barrier to groundwater flow between the Mississippian and Devonian Aquifers.

The additional excerpt below is from the Second Expanded Groundwater Assessment Report, Shive-Hattery, Inc., September 1996.

The uppermost soil in the upland areas of the site is loess, or wind blown deposits, which consists primarily of silt and silty clay. In the low lying areas of the site, characterized by well locations MW-14/MW-15 and MW-4, the loess is absent, and the uppermost soil is comprised of alluvium, fine silty sand. Underlying the loess and alluvium is glacial till, typically silty clay with occurrences of sand and gravel. The till varies in thickness from over 80 feet in well location MW-11/MW-12 to absent near

well location MW-4, where bedrock outcrops have been noted. The bedrock underlying the site is the Mississippian aquifer, which consists of dolomite and/or limestone, with some occurrences of shale. The unit is estimated to be approximately 200 to 300 feet in thickness, and is underlain by Devonian shale, a regional confining unit. The most likely contaminant pathway at the site is cracks, fissures, fracture planes, sand seams, and lenses within the glacial till.

2.2 Hydrogeology

The hydrogeology in the immediate vicinity of the Landfill was described in previous assessments. Below is an excerpt from the Hydrogeologic Investigation Report and Hydrologic Monitoring System Plan, Shive-Hattery Engineers and Architects, Inc., March 1992, revised September 1992.

The unconsolidated loess and glacial deposits include a variety of soil types. Most of the waste boundary is located in the weathered or unweathered silty clay glacial till. For all practical purposes, water movement in these deposits is limited to fractures and sand seams scattered throughout the tight silty clay matrix. Tiny cracks, fissures, fracture planes, sand seams, and sand lenses were observed far more frequently in the weathered till than in the unweathered till, as is generally the case. The hydraulic conductivity estimated for the weathered till screened by well MW-10 was approximately ten times greater than that of the unweathered till screened by MW-11. Well[s] MW-8 and MW-13 are both finished in sand lenses which are approximately 100 times more conductive than the weathered till.

Sand lenses encountered during landfill operation were excavated and replaced with a minimum of 5 feet of compacted clay. Other than the sand lenses, the cross sections indicate a minimum separation distance between the waste and bedrock or sand deposits to be approximately 10 feet. We estimate that the average hydraulic conductivity at the waste boundary is similar to that of the weathered and unweathered till; between approximately 10^{-6} to 10^{-5} cm/sec.

The potential for significant downward movement of leachate from the landfill base, through the glacial deposits and into the bedrock is fairly low given the more numerous opportunities for horizontal movement. The bedrock formation is itself prohibitive to vertical flow. The two uppermost formations directly below the landfill (Warsaw and Keokuk) contain considerable shale and are not to our knowledge use[d] as a drinking water source. Shallow bedrock contamination is most likely to be detected in monitoring well MW-8.

Based on the water level measurements and estimated water table surface contours, most of the waste is located above the level of saturation...Contaminants leached from the waste in this area would most likely be detected in monitoring wells MW-15 and MW-4 or in surface water sample S-3.

The presence of two primary stratigraphic layers, the weathered glacial till and an extensive deep sand layer, were summarized in the Groundwater Quality Assessment Work Plan, Barker Lemar Engineering Consultants, February 2013 (Doc #75975).

Based on review of the previous assessment information, the two primary potential groundwater migration pathways at the site appear to be the sand and gravel seams generally present within the weathered glacial till layer and a much thicker and more extensive sand layer present at a greater depth. Many of the soil borings advanced at the site encountered thick sand layers, sometimes within depressions above the bedrock as mentioned in an earlier report citation, but also within the weathered and unweathered glacial till. These larger sand layers varied in thickness from 5 feet to

more than 30 feet thick. These thick sand layers were generally encountered below and potentially separate from the sand and gravel seams present within the weathered glacial till layer. The thick sands appear particularly extensive in the western portion of the site, as evidenced by the soil boring logs/cross-sections for soil boring B-16; monitoring wells MW-13, MW-22, MW-25, MW-26, and MW-27; and recovery well RW-4. Monitoring wells MW-18 and MW-24 and recovery well RW-3 located in the same area were not installed to a sufficient depth to encounter the thicker sand layer. Monitoring well MW-23 encountered a thicker sand layer but at a shallower depth. This sand may not be connected to the deeper apparently more extensive sand layer. Additionally, it appears that the sand layer in monitoring wells MW-22 and MW-23 may be connected based on groundwater elevation information and not connected to the sand in monitoring well MW-13, also based on groundwater elevation information.

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Section 3.0

Monitoring Well Maintenance and Performance Evaluation

DNR correspondence dated March 14, 2016 (Doc #85670) approved replacing the monitoring well maintenance and performance requirements of 1989 IAC 567-103.2(8)"d" with those of 2009 IAC 567-113.10(2)"f."

3.1 High and Low Water Levels Evaluation

The high and low water levels accompanied by a discussion of the acceptability of well location (vertically and horizontally) and exposure of the screened interval to the atmosphere were included in the 2022 AWQR and will be included in the next AWQR due in November of 2025.

3.2 Groundwater Flow

Groundwater flow is largely reflective of surface topography, which consists of deeply cut ravines. Several well nests exist or have existed to monitor vertical groundwater flow: MW-1/MW-11/MW-12 (now abandoned), MW-5/MW-6, MW-7/MW-8, and MW-14/MW-15.

Groundwater contours were determined for the glacial till and deeper sand units using groundwater elevation data collected during the September 2023 sampling event and are presented in Figure 3-1 (Glacial Till Groundwater Contours) and Figure 3-2 (Deep Sand Groundwater Contours). Groundwater flow in the glacial till is generally directed toward ravines surrounding the site, especially those to the north-northeast and west-southwest. Groundwater flow in the deep sand has varying flow directions, with indications of flow to the northeast for a limited distance and flow to the southwest during this reporting period. Contour development attempted to accommodate the observed migration directions of groundwater impact in the deep sand unit. Water elevations in the bedrock monitoring wells were not used in the development of the groundwater contours but are included next to the monitoring wells on Figure 3-2.

3.3 Well Depth Evaluation

IAC 567-113.10(2)"f"(3) requires annual measurements of well depths without dedicated sampling pumps to ensure that wells are physically intact and not filling with sediment. The monitoring well depths measured during the September 2023 sampling event are included in Table 3-1 below.

Table 3-1
Summary of 2023 Well Depths

Monitoring Well	Installed Depth	September 2023	
		Measured	Difference
MW-4	14.6	14.0	0.6
MW-6	57.0	48.5	8.5
MW-8	42.2	42.0	0.2
MW-10	28.5	28.5	0.0
MW-13	47.5	40.1	7.4
MW-15	32.7	31.9	0.8
MW-16R	34.7	33.2	1.5
MW-20	30.5	30.2	0.3
MW-21	33.3	32.9	0.4
MW-22	23.8	22.0	1.8

Monitoring Well	Installed Depth	September 2023	
		Measured	Difference
MW-23	30.1	30.0	0.1
MW-24	30.5	30.5	0.0
MW-25	35.0	33.2	1.8
MW-26	41.6	42.1	-0.5
MW-27	34.0	33.7	0.3
MW-28	20.1	20.1	0.0
MW-29	27.7	28.2	-0.5
MW-30	44.8	44.1	0.7
MW-31	57.1	55.7	1.4
MW-32	32.0	32.4	-0.4
MW-34	31.2	31.4	-0.2
MW-35	7.0	7.1	-0.1
MW-36	47.1	47.4	-0.3
MW-37	25.3	23.6	1.7

Note: All measurements in feet.

NA: Not available.

Measured well depths during the September 2023 sampling event were within 1.8 feet of the installed depths with the exception of monitoring wells MW-6 and MW-13. It is unclear why MW-6 and MW-13 had significant discrepancies between the installed and measured depths during this reporting period. Monitoring well MW-13 was measured at 47.2 feet during the 2021 and 2022 sampling events. Monitoring well MW-6 was measured within 2.6 feet of the installed depth during the 2021 sampling event; the 2022 measurement was unavailable. The depth of these monitoring wells will be checked during the next sampling event to verify if a change in measured depths indicates a potential impact to well integrity.

As the monitoring wells produced samples during the 2023 sampling event, it appears unlikely siltation is affecting the functionality of the monitoring wells.

3.4 Well Recharge Evaluation

IAC 567-113.10(2)"f"(4) requires a biennial evaluation of well recharge rates and chemistry to determine if well deterioration is occurring. Well recharge rates will be used to determine if there are physical or chemical factors affecting the performance of the well. This evaluation was included in the 2022 AWQR and will be included in the next AWQR due in November of 2025.

3.5 Monitoring Network Summary

The monitoring schedule in Section 4.6 was approved by the DNR in correspondence dated February 9, 2023 (Doc #105793),

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Monitoring Wells used to develop Glacial Till Groundwater Contours	
MW-10	MW-23
MW-15	MW-24
MW-16R	MW-17
MW-19	MW-28
MW-20	MW-29
MW-32	MW-34



Glacial Till Groundwater Contours

Legend

- Approximate Monitoring Well Location
- Approximate Gas Monitoring Point Location
- Approximate Leachate Monitoring Location
- Approximate Waste Boundary
- Approximate Property Boundary
- Approximate Glacial Till Groundwater Contours Based on Field Measurements Taken on September 21, 2023*

Henry County Sanitary Landfill
Mt. Pleasant, Iowa
Project No: 27223220.00
Drawing Date: November 2023

Figure 3-1

0 155 310 620 Feet

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Monitoring Wells used to develop Deeper Sand Groundwater Contours	
MW-8	MW-30
MW-13	MW-31
MW-21	MW-36
MW-22	MW-37
MW-25	MW-26



Deep Sand Groundwater Contours

Legend

- Approximate Monitoring Well Location
- Approximate Gas Monitoring Point Location
- Approximate Leachate Monitoring Location
- Approximate Waste Boundary
- Approximate Property Boundary
- Approximate Deep Sand Groundwater Contours Based on Field Measurements Taken on September 21, 2023*

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*Groundwater elevations in Bedrock Monitoring Wells were not used to generate contours

Figure 3-2

Section 4.0

Evaluation of Water Quality Parameters

In accordance with Permit Amendment #28 (Doc #92798), most of the monitoring wells at the Landfill are sampled annually. Monitoring wells MW-21 and MW-32 are sampled semi-annually for the Supplemental VOCs. The concentrations of CVOCs historically above the groundwater protection standards (GWPSs) in monitoring wells MW-21 and MW-32 are included in the graphs below. The historical analytical results of the groundwater monitoring wells are presented in Appendix C. Time series graphs for the groundwater monitoring wells depicting the changes in concentration of each parameter are included in Appendix E.

There are two primary areas of focus for the groundwater monitoring program at the Landfill. The first is related to monitoring for landfill impact in the event of a release. The monitoring wells generally to the east, north-central, and south-central sides of the Landfill are monitored for Appendix I and total suspended solids (TSS) to monitor for potential landfill impact. The second area of focus is related to CVOC impact primarily to the west of the Landfill. The monitoring wells to the west are sampled for benzene and numerous CVOCs, and do not appear to be impacted by a release from the Landfill. Some monitoring wells to the northwest, especially monitoring wells MW-13 and MW-21, indicate potential impact by both the Landfill and CVOCs.

4.1 CVOC Well Summary

To evaluate the trending of the CVOC concentrations to the west of the Landfill, Mann-Kendall trending analysis was performed for the entire historical dataset for the Supplemental VOCs. It should be noted that the historical dataset varies significantly between monitoring wells. The number of samples for each monitoring well is included in the "N" column on the summary table. The Mann-Kendall summary table and graphs for the CVOC wells are included in Appendix G-1. Historically, monitoring wells MW-13, MW-21, MW-24, and MW-27 have had the greatest impact from CVOCs.

Monitoring well MW-13 has mixed results. Although benzene and tetrachloroethene have statistically significant decreasing trends, five of the six remaining trends are increasing, with four increasing at statistically significant rates. However, as the four increasing trends (trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride) are daughter products of tetrachloroethene biodegradation, it appears that natural attenuation processes may lead to improved water quality in the area of monitoring well MW-13.

Monitoring well MW-21 has some similarities to MW-13 in that tetrachloroethene is decreasing at a statistically significant rate, while the trends for cis-1,2-dichloroethene and vinyl chloride have statistically significant increasing trends, again indicating tetrachloroethene biodegradation. Of the remaining trends, two are decreasing at statistically significant rates, two are decreasing at non-statistically significant rates, and one is increasing at a non-statistically significant rate.

Monitoring well MW-24 shows improved water quality. Of the eight analyzed trends, each trend is decreasing, six at statistically significant rates. For tetrachloroethene, decreasing at a non-statistically significant rate, the Mann-Kendall statistic is -2.571, only 0.009 less than the critical Mann-Kendall value of -2.58 (N=67).

Monitoring well MW-27 is also indicating improved water quality, with only decreasing trends and five of the eight trends decreasing at statistically significant rates.

Outside of monitoring wells MW-13, MW-21, MW-24, and MW-27, statistically significant increasing trends were measured for cis-1,2-dichloroethene in monitoring wells MW-23, MW-25, and MW-30 and trans-1,2-dichloroethene in monitoring well MW-29. Statistically significant decreasing trends

were measured for trans-1,2-dichloroethene, methylene chloride, tetrachloroethene, trichloroethene, and vinyl chloride in monitoring well MW-23.

The water quality of the two monitoring wells sampled on a semi-annual frequency is summarized below.

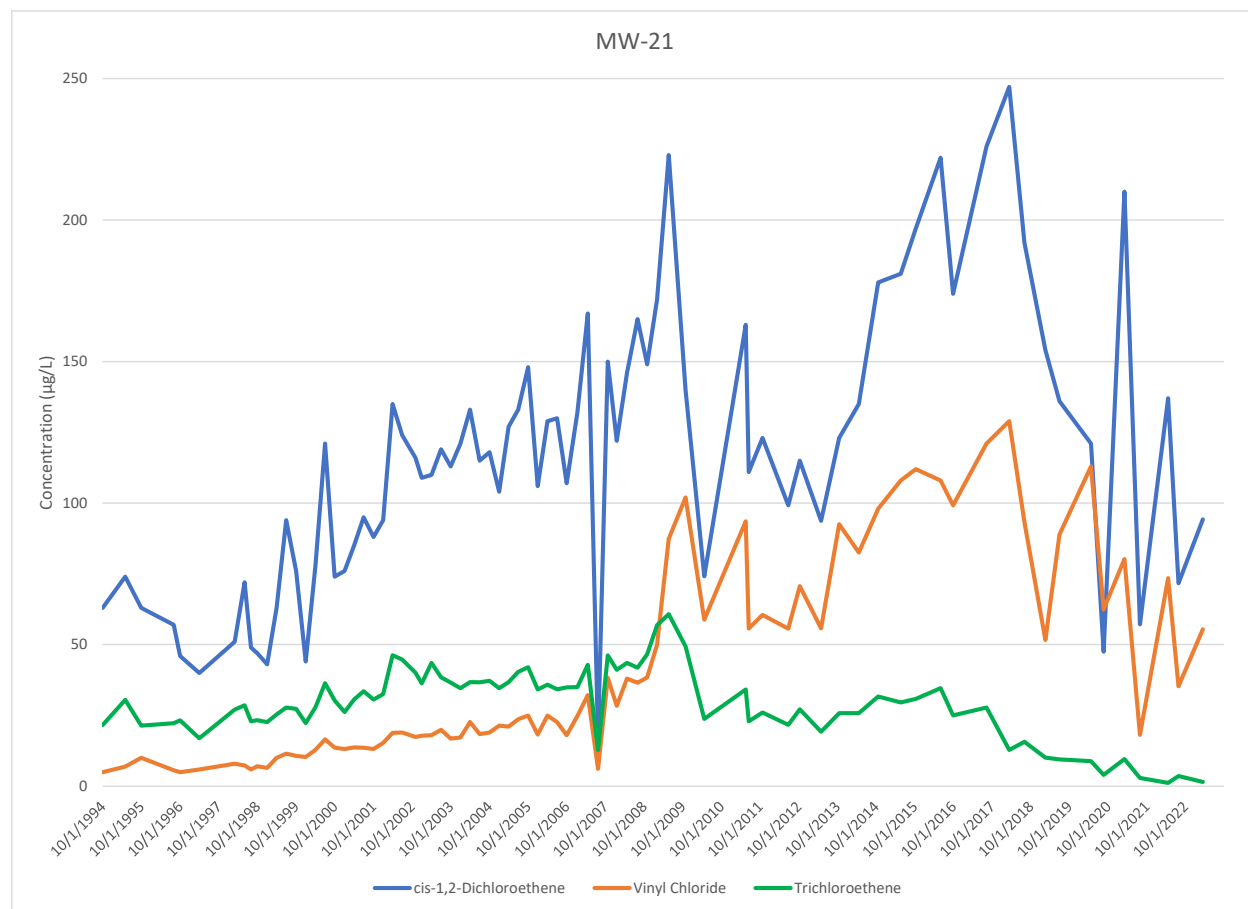
MW-21

Monitoring well MW-21 is screened in the deep sand unit. The abandonment of the recovery wells in late 2018 coincided with the start of a decrease in concentrations of numerous Supplemental VOCs measured in monitoring well MW-21. It should be noted that cis-1,2-dichloroethene and vinyl chloride are daughter products of tetrachloroethene and trichloroethene biodegradation.

In monitoring well MW-21, the concentration of vinyl chloride is generally stable to slightly decreasing. The concentration of vinyl chloride remained above the GWPS of 2 µg/L during both 2023 sampling events.

The concentration of cis-1,2-dichloroethene decreased sharply during the March 2023 sampling event then increased during the July 2023 sampling event. The concentration of cis-1,2-dichloroethene was above the GWPS of 70 µg/L during the 2023 sampling events.

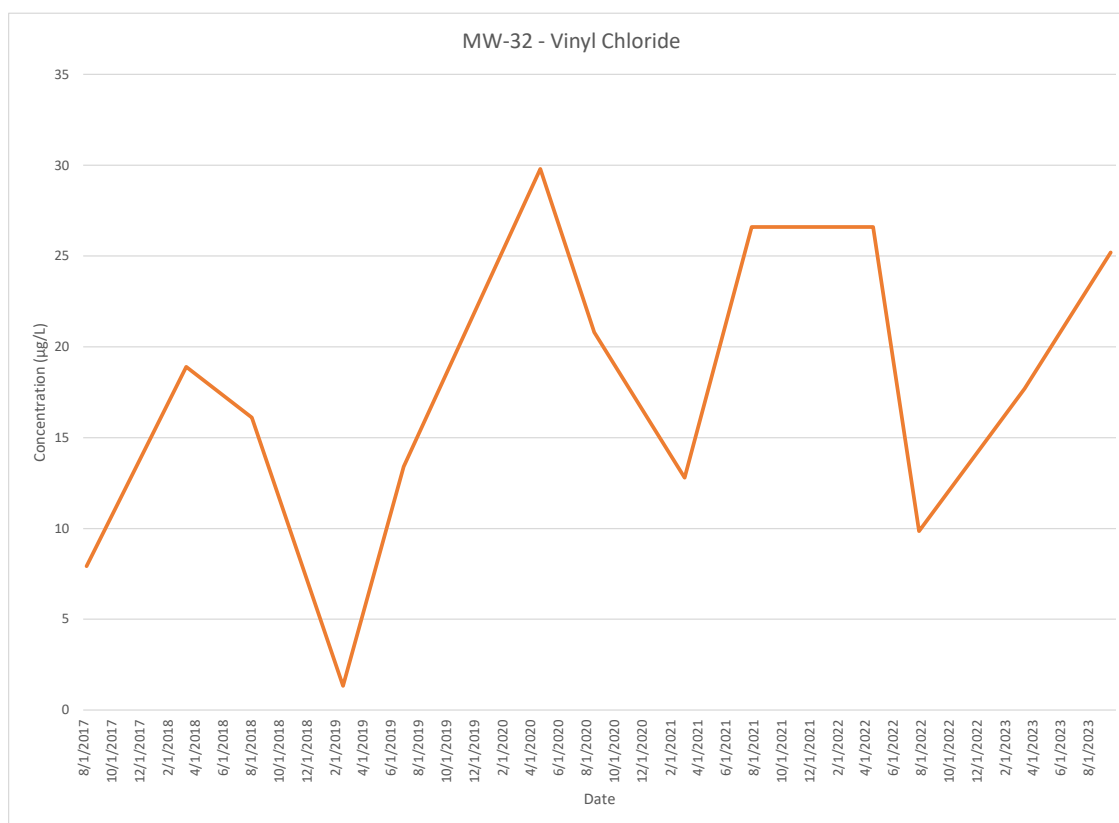
The concentration of trichloroethene is decreasing, with the most recent nine samples the lowest nine concentrations measured in the period of record dating back to 1995. The concentrations of trichloroethene were below the GWPS of 5 µg/L in five or the last six samples, including those during the 2023 sampling events.



MW-32

Monitoring well MW-32 is screened in weathered glacial till. The constituent of concern in monitoring well MW-32 is vinyl chloride. There continues to be no quantified detections of VOCs other than vinyl chloride in monitoring well MW-32 with the exception of single detections of cis-1,2-dichloroethene in 2018 and methylene chloride in 2017. The concentrations measured during both the 2023 sampling events are within the historical range (measurements began in August 2017) and above the GWPS of 2 µg/L. The DNR stated the following in correspondence dated December 9, 2019 (Doc #96542) regarding vinyl chloride concentrations in monitoring well MW-32:

It is readily apparent that breakdown of trichloroethylene is occurring in the subsurface at the site and vinyl chloride is the end product. DNR will be paying special attention to the size and concentration of the vinyl chloride plume during the upcoming several years in order to assess site stability.



The 2023 bracketing status of the VOC impact is shown in Figure 4-1, VOC Concentration Summary. The VOC constituents exceeding a GWPS are highlighted in yellow on Figure 4-1. Monitoring wells MW-13, MW-21, MW-23, MW-24, MW-27, MW-29, and MW-32 had GWPS exceedances during the 2023 reporting period, which is unchanged from the previous reporting period. With the exception of monitoring well MW-23, the bracketing wells around monitoring wells MW-13 and MW-21 were non-detect for VOCs, and the VOC impact is defined near these monitoring wells. There are no bracketing monitoring wells southwest of monitoring well MW-32 or west of monitoring well MW-29 due to dense tree growth.

4.2 Appendix I Well Summary

Seven monitoring wells are sampled for Appendix I and TSS annually and were sampled during the September 2023 sampling event. The Appendix I monitoring wells include the following:

- MW-4
- MW-6
- MW-8
- MW-10
- MW-15
- MW-19
- MW-20

Appendix I and TSS results for these monitoring wells are summarized in the Summary of Groundwater Chemistry in Appendix C. Monitoring well MW-19 was unable to be located during this reporting period so no sample was available.

Confidence intervals were calculated for the Appendix I wells during this reporting period. Statistically significant increases (SSLs) above the GWPS were measured for cobalt in monitoring wells MW-6 and MW-19. Although only six samples for MW-19 and seven samples for MW-6 are available for these monitoring wells, and the Unified Guidance recommends 8-10 sampling events for confidence interval development, the concentrations of cobalt measured in monitoring wells MW-6 and MW-19 have all been above the GWPS; the SSLs for cobalt are unlikely to change in the short term. Confidence interval and confidence band summary tables and graphs are included in Appendix F.

Mann-Kendall statistics can provide an indication of general trending in the data. The Mann-Kendall statistics used the existing 6-8 samples and a trend threshold of 99% confidence ($\alpha=0.01$). A summary of Mann-Kendall statistics for the Appendix I wells shown above is included in Appendix G-2. Mann-Kendall analysis indicated generally stable concentrations, with the exception of a statistically significant decreasing trend for cis-1,2-dichloroethane in monitoring well MW-19 and a statistically significant increasing trend for arsenic in monitoring well MW-6. Overall, about 39% of the monitoring well/constituent pairs had a Mann-Kendall statistic less than or equal to zero while 61% of the pairs had a positive Mann-Kendall statistic. It should be noted that the majority of the positive Mann-Kendall statistics are quite low, often less than half the critical value, indicating the trend is likely closer to stable rather than increasing.

4.3 Regulatory Action Limits

In addition to evaluating the parameter concentrations in comparison to groundwater protection standards, the concentrations were also compared to current United States Environmental Protection Agency Maximum Contaminant Levels (MCLs), Negligible Risk Levels (NRLs), and Health Advisory Levels (HALs). DNR guidance documents define the “action level” for groundwater as the following:

“As defined by 567 - 133.2 (455B, 455E), action level means the HAL, if one exists. If there is no HAL, then the NRL, if one exists. If there is no HAL or NRL, then the MCL. If there is no HAL, NRL, or MCL, an action level may be established by the department based on current technical literature and recommended guidelines of the USEPA and recognized experts, on a case-by-case basis.”

Table 4-1 summarizes action limit exceedances measured during this reporting period and the applicable HAL, NRL, and/or MCL.

Table 4-1
Action Level Exceedances

Parameters	Action Level	Action Level Concentration	MW-6	MW-13	MW-20	MW-21	MW-23	MW-24	MW-27	MW-29	MW-30	MW-32
Arsenic	NRL	0.00002 mg/L	X									
Benzene	NRL	1 ug/L			X							
cis-1,2-Dichloroethene	HAL	10 ug/L		X		X	X	X	X	X	X	
	MCL	70 ug/L		X		X		X	X	X		
Trichloroethene	MCL	5 ug/L		X				X		X		
	NRL	3 ug/L		X		X		X		X		
Vinyl Chloride	MCL	2 ug/L		X		X	X	X	X			X
	NRL	0.02 ug/L		X		X	X	X	X		X	X

4.4 Potential Receptors

Pursuant to DNR requirements, if MCLs are exceeded at any groundwater monitoring point, information is to be provided on potential receptors. MCLs were exceeded in monitoring wells MW-13, MW-21, MW-23, MW-24, MW-27, MW-29, and MW-32.

Property located directly to the east of the Landfill property is zoned agricultural and includes two residences, with the nearest building located approximately 650 feet from the eastern Landfill property line, and adjacent wooded areas and farm fields. The remainder of the site is surrounded by agricultural land separated by wooded ravines. Intermittent surface water extending north-northeast from the Landfill property flows to Big Creek, eventually discharging to the Skunk River approximately five miles southeast of the property. Surface water flowing to the southwest beyond the Landfill property flows along natural ravines directly to the Skunk River, which is a tributary of the Mississippi River. A well search indicated five wells are located within 1,000 feet of the Landfill, only one of which is residential use. Well search documentation was included in the 2018 Annual Water Quality Report (Doc #93583).

4.5 QA/QC Information

The quality assurance/quality control (QA/QC) program for the Landfill followed protocols as specified in this section. Data validation procedures were performed on analytical results for laboratory quality control samples and a quality assurance assessment of the data was conducted as the data was generated. The QA review procedure provided documentation of the accuracy and precision of the analytical data. SCS then conducted QA/QC data validation of the produced data, which included review of sample handling, analytical sensitivity, and blanks, accuracy, and precision. An explanation of the laboratory QA/QC and data validation procedures is described in more detail below.

4.5.1 Sample Collection and Sample Handling

Sample receipt forms were reviewed by SCS and checked to verify that samples were received in good condition and within the acceptable temperature range. Chain of custody records for each sampling event were reviewed to confirm that information was complete, custody was not breached, and samples were analyzed within the acceptable hold times. Sample collection and sample handling procedures were within the acceptable criteria.

4.5.2 Analytical Sensitivity and Blanks

Laboratory QA/QC procedures and post-analysis data validation assist in producing data of acceptable quality and reliability. Eurofins is a certified laboratory in Iowa and performed QA/QC procedures which included analyzing laboratory method blanks in association with samples collected for the project to check for contributions to the analytical results possibly attributable to laboratory-based contamination. There were no detections in the method blanks or trip blanks.

4.5.3 Accuracy

Laboratory analytical accuracy can be assessed by evaluating the constituent recoveries from continuing calibration verification (CCV), laboratory control sample (LCS), and LCS duplicate (LCSD). LCS/LCSD samples assess the accuracy of analytical procedures by checking the ability to recover constituents added to clean aqueous matrices. In some cases, the laboratory spikes project samples as matrix spike (MS) and MS duplicate (MSD) samples to assess the ability to recover constituents from a matrix similar to that of project samples. The post-analysis data validation conducted by SCS confirmed that the laboratory had performed QA/QC of its laboratory control samples. Recommendations were made on how to proceed with data that had possibly been compromised.

4.5.4 Data Quality Summary

Based on the above QA/QC procedures, the groundwater samples collected during this reporting period were considered to be representative of site conditions at the locations and times they were obtained. Based on the QA review, no samples were rejected as unusable due to QC failures. Data validation documentation is included in Appendix B-2. In general, the quality of the analytical data for this reporting period does not appear to have been compromised by analytical irregularities and results affected by QC anomalies were qualified with the appropriate data flags, which were listed in the laboratory reports in Appendix B-1.

4.6 Conclusions and Recommendations for Future Monitoring

For the 2024-2025 reporting period, the monitoring program will change as described in the 2022 AWQR (Doc #104437) and approved in DNR correspondence dated February 9, 2023 (Doc #105793). As the monitoring wells will be sampled biennially, the AWQRs will be submitted biennially, with the evaluations reporting the results of the previous two sampling events; the next AWQR will be submitted by November 30, 2025. As stated in Sections 1.1 and 1.6 of this report, it is recommended that leachate levels be measured annually and reported in the biennial AWQRs. It is also recommended that landfill gas be monitored semi-annually and notice of exceedances be submitted to the DNR when they occur. The recommended 2-year sampling schedule to begin in the 2024 calendar year is included in Table 4-2.

Table 4-2
2024-2045 Sampling Schedule

Monitoring Point	2024 Biennial Sampling Event	2025 Biennial Sampling Event
MW-6		Cobalt, Nickel, TSS, Appendix I
MW-19		Cobalt, Nickel, TSS, Appendix I
MW-13		Supplemental VOCs
MW-20	Supplemental VOCs	
MW-21		Supplemental VOCs
MW-22	Supplemental VOCs	
MW-23	Supplemental VOCs	

Monitoring Point	2024 Biennial Sampling Event	2025 Biennial Sampling Event
MW-24		Supplemental VOCs
MW-25	Supplemental VOCs	
MW-26	Supplemental VOCs	
MW-27		Supplemental VOCs
MW-29	Supplemental VOCs	
MW-30	Supplemental VOCs	
MW-32		Supplemental VOCs
MW-36	Supplemental VOCs	
MW-37	Supplemental VOCs	

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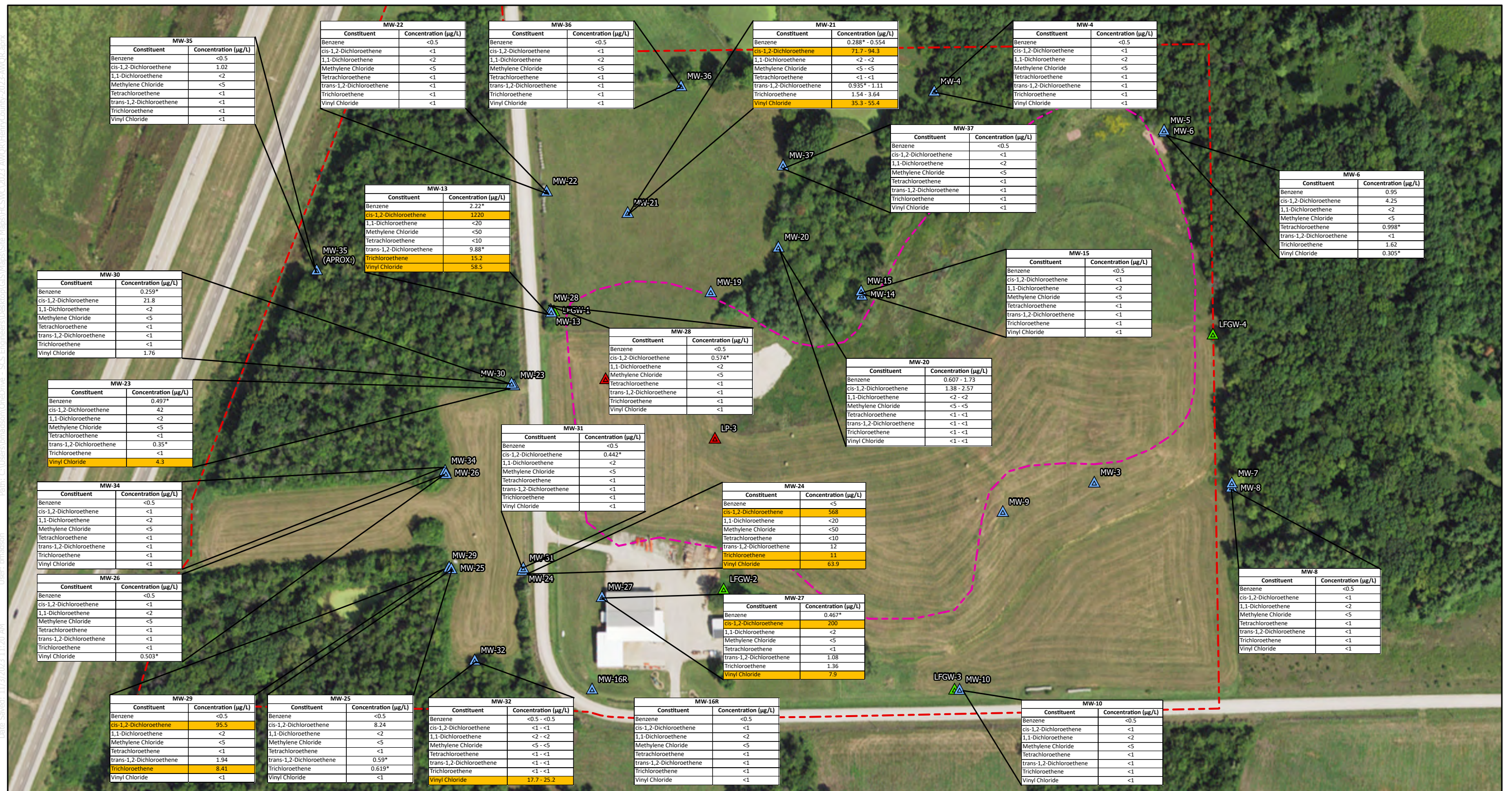


Figure 4-1

SCS
ENGINEERS
environmental consultants and contractors

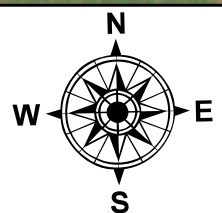
VOC Concentration Study

Legend

-  Approximate Monitoring Well Location
  Approximate Leachate Monitoring Location
-  Approximate Gas Monitoring Point Location
  Approximate Waste Boundary
-  Approximate Property Boundary
- Flag indicates estimated concentration

Note:
Orange shaded lines indicate concentrations above the GWPS

Henry County Sanitary
Landfill
Mt. Pleasant, Iowa
Project No: 27223220.24
Drawing Date: November
2023



0 155 310 620 Feet

Section 5.0 General Comments

The analysis and opinions expressed in this report are based upon data obtained from the samples collected at the indicated locations and from any other information discussed in this report. This report does not reflect any variations in subsurface stratigraphy, hydrogeology, or chemical concentrations that may occur between sampling locations or across the site. Actual subsurface conditions may vary and may not become evident without further exploration.

SCS has prepared this report for the exclusive use of our client for the specific application to the project discussed. No warranty is expressly stated or implied in this report. SCS has relied upon information furnished by others as noted in the report, and SCS accepts no responsibility for any deficiency, misstatements, or inaccuracy in this report as a result of misstatements, omissions, misrepresentations, fraudulent, or inaccurate information or data provided by others.

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Section 6.0 References

1. Carberry Environmental Services, *2008 Annual Water Quality Report for the Closed Henry County Landfill*, September 2009 (Doc #30274).
2. Barker Lemar Engineering Consultants, *Groundwater Quality Assessment Work Plan, Henry County Sanitary Landfill*, February 2013 (Doc #75975).
3. Barker Lemar Engineering Consultants, *Groundwater Quality Assessment Report, Henry County Sanitary Landfill (Closed)*, June 2018 (Doc #92688).
4. Evora Consulting, *2022 Annual Water Quality Report, Henry County Sanitary Landfill (Closed)*, October 2022 (Doc #104437).

Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-21	Date: 3/15/2023
Gradient: Down	Sampler: Scott Stoller

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):	33.0
Initial Static Water Level (feet):	32.95
Initial Groundwater Elevation (ft-amsl):	651.64
Equipment Used:	Dedicated Bailer

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:41 PM	Purging start time.						
12:44 PM	14.1	1.9	677.3	6.44	-40.9	11.6	
12:47 PM	14.6	1.6	679.3	6.46	-40.4	11.3	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	15.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

D. WELL MAINTENANCE

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill							
Monitoring Well/Piezometer ID:			MW-32	Date:			3/15/2023
Gradient:		Down	Sampler:		Scott Stoller		
A. MW/PIEZOMETER CONDITIONS							
Well/Piezometer Capped?		Yes					
Litter/Standing Water?		No					
B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)							
Measured Well Total Depth (feet):			32.4				
Initial Static Water Level (feet):			12.40				
Initial Groundwater Elevation (ft-amsl):			677.16				
Equipment Used:		Dedicated Bailer					
C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
1:12 PM	Purging start time.						
1:15 PM	13.1	8.4	470.5	6.77	70.9	18.7	
1:18 PM	13.5	8.4	471.8	6.77	74.6	18.4	
	Parameters stabilized, sample collected.						
Quantity of Water Removed from Well (liters):				16.0			
Was well pumped/bailed dry?				No			
Total Amount of Time Purged (minutes:seconds):				05:00			
Average Purge Rate (mL/min):				NA			
D. WELL MAINTENANCE							
Does the well require any future maintenance?				No			
If yes, explain:							
Additional Comments:							

FORM FOR GROUNDWATER SAMPLING

Project:	Henry County Sanitary Landfill		
Monitoring Well/Piezometer ID:	MW-4	Date:	9/19/2023
Gradient:	Down	Sampler:	Caleb Gomez

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):	14.0
Initial Static Water Level (feet):	7.50
Initial Groundwater Elevation (ft-amsl):	624.75
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)	
5:40 PM	Purging start time.						
5:43 PM	15.8	2.2	1097.6	7.64	-97.2	8.3	
5:46 PM	16.0	1.3	1094.2	7.41	-115.5	8.8	
5:49 PM	16.0	1.0	1094.4	7.35	-122.2	9.7	
5:52 PM	16.2	0.9	1101.8	7.26	-122.3	7.3	
5:55 PM	16.1	0.8	1108.8	7.22	-119.6	6.5	
5:58 PM	16.0	0.8	1110.8	7.21	-116.0	6.3	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	3.6
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	18:00
Average Purge Rate (mL/min):	200.00

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-6	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	48.5
Initial Static Water Level (feet):	33.00
Initial Groundwater Elevation (ft-amsl):	630.38
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
8:44 AM	Purging start time.						
8:47 AM	14.1	6.1	1808.5	6.98	87.0	84.0	
8:50 AM	14.4	5.8	1810.7	6.98	92.8	73.7	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	29.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-8	Date: 9/19/2023
Gradient: Down	Sampler: Caleb Gomez

A. MW/PIEZOMETER CONDITIONS

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

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

Measured Well Total Depth (feet):	42.0
Initial Static Water Level (feet):	20.70
Initial Groundwater Elevation (ft-amsl):	669.05
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)	
3:25 PM	Purging start time.						
3:28 PM	14.6	2.8	1281.4	7.10	184.6	12.2	
3:31 PM	14.5	1.9	1277.9	6.93	175.8	16.7	
3:34 PM	14.4	1.6	1275.8	6.88	167.9	23.0	
3:37 PM	14.5	1.4	1284.4	6.85	160.7	31.1	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-10	Date: 9/19/2023
Gradient: Up	Sampler: Caleb Gomez

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):	28.5
Initial Static Water Level (feet):	18.06
Initial Groundwater Elevation (ft-amsl):	682.80
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)	
2:29 PM	Purging start time.						
2:32 PM	15.4	2.4	921.8	6.85	231.6	12.6	
2:35 PM	15.5	1.5	913.5	6.77	217.8	22.3	
2:38 PM	15.8	1.2	913.1	6.76	205.3	29.5	
2:41 PM	16.0	1.2	907.5	6.77	193.0	36.0	
Parameters stabilized, sample collected.							

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

D. WELL MAINTENANCE

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-13	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	40.1
Initial Static Water Level (feet):	34.28
Initial Groundwater Elevation (ft-amsl):	658.32
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
9:29 AM	Purging start time.						
9:32 AM	13.1	5.2	2665.1	6.93	-58.2	564.6	
9:35 AM	13.5	4.7	2667.5	6.90	-59.2	507.5	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	11.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill							
Monitoring Well/Piezometer ID: MW-15				Date: 9/19/2023			
Gradient: Down			Sampler: Caleb Gomez				
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):		31.9					
Initial Static Water Level (feet):		16.00					
Initial Groundwater Elevation (ft-amsl):		629.77					
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)	
6:32 PM	Purging start time.						
6:35 PM	13.6	2.4	1672.8	7.20	60.4	19.4	
6:38 PM	13.6	1.5	1675.9	7.08	56.2	19.4	
6:41 PM	13.7	1.1	1676.8	7.02	52.3	19.0	
6:44 PM	13.5	1.0	1677.4	7.01	49.5	16.3	
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?				Yes			
If yes, explain:	Concrete and flush mount are removed from the rest of the casing. Needs new flush mount and concrete encasing the well.						
Additional Comments:							

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-16R	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	33.2
Initial Static Water Level (feet):	15.20
Initial Groundwater Elevation (ft-amsl):	685.04
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
11:11 AM	Purging start time.						
11:14 AM	14.0	5.9	788.3	7.56	7.5	394.2	
11:17 AM	14.6	5.3	788.3	7.43	12.2	352.6	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	34.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-20	Date: 9/20/2023
Gradient: Down	Sampler: Caleb Gomez

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):	30.2
Initial Static Water Level (feet):	14.60
Initial Groundwater Elevation (ft-amsl):	659.03
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)	
10:20 AM	Purging start time.						
10:23 AM	14.5	3.1	606.8	6.99	-125.8	8.1	
10:26 AM	14.4	1.7	439.0	6.91	-135.8	9.6	
10:29 AM	14.3	1.2	471.9	6.87	-136.2	8.9	
10:32 AM	14.4	1.0	530.8	6.82	-135.5	9.9	
10:35 AM	14.3	0.9	634.6	6.77	-133.9	9.8	
10:38 AM	14.3	0.9	701.9	6.73	-128.5	10.4	
10:41 AM	14.3	0.9	771.2	6.72	-123.6	10.3	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	3.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	21:00
Average Purge Rate (mL/min):	147.62

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-21	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	32.9
Initial Static Water Level (feet):	23.65
Initial Groundwater Elevation (ft-amsl):	660.94
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
9:47 AM	Purging start time.						
9:50 AM	13.8	4.7	2249.4	6.94	-105.9	88.2	
9:53 AM	14.3	4.2	2248.5	6.97	-102.3	78.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	17.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-22	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	22.0
Initial Static Water Level (feet):	14.61
Initial Groundwater Elevation (ft-amsl):	675.29
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:04 AM	Purging start time.						
10:07 AM	14.6	8.0	1055.0	7.46	-53.0	1085.0	
10:10 AM	14.9	7.9	1055.4	7.38	-38.3	910.3	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	14.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-24	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	30.5
Initial Static Water Level (feet):	20.20
Initial Groundwater Elevation (ft-amsl):	678.58
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
3:11 PM	Purging start time.						
3:14 PM	16.3	5.8	1532.0	7.13	25.3	58.3	
3:17 PM	17.2	5.3	1531.8	7.01	16.1	51.7	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	19.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-25	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	33.2
Initial Static Water Level (feet):	27.46
Initial Groundwater Elevation (ft-amsl):	659.63
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:10 PM	Purging start time.						
2:13 PM	14.6	6.8	3212.9	7.10	37.7	2160.2	
2:16 PM	15.4	6.4	3207.2	6.98	45.0	1765.6	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	10.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-26	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	42.1
Initial Static Water Level (feet):	32.32
Initial Groundwater Elevation (ft-amsl):	658.04
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
1:20 PM	Purging start time.						
1:23 PM	14.1	7.2	2603.9	7.07	-45.3	1015.2	
1:26 PM	14.7	6.9	2603.0	6.97	-35.0	878.7	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	18.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-27	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	33.7
Initial Static Water Level (feet):	21.65
Initial Groundwater Elevation (ft-amsl):	678.87
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:54 AM	Purging start time.						
10:57 AM	15.1	5.9	1257.0	7.23	1.5	43.9	
11:00 AM	15.6	5.4	1258.1	7.15	7.4	41.3	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	22.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-28	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	15.45
Initial Groundwater Elevation (ft-amsl):	680.88
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
9:15 AM	Purging start time.						
9:18 AM	13.8	8.1	768.2	7.63	82.7	339.9	
9:21 AM	14.1	7.8	767.7	7.52	86.7	302.0	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	8.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project:	Henry County Sanitary Landfill		
Monitoring Well/Piezometer ID:	MW-29	Date:	9/21/2023
Gradient:	Down	Sampler:	Caleb Gomez

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):	28.2
Initial Static Water Level (feet):	27.25
Initial Groundwater Elevation (ft-amsl):	660.09
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
1:51 PM	Purging start time.						
1:54 PM	15.4	7.2	2653.8	7.08	13.4	188.0	
1:57 PM	15.7	7.0	2660.3	7.03	6.1	196.2	
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):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill							
Monitoring Well/Piezometer ID: MW-30				Date: 9/21/2023			
Gradient: Down		Sampler: Caleb Gomez					
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):				44.1			
Initial Static Water Level (feet):				33.65			
Initial Groundwater Elevation (ft-amsl):				664.64			
Equipment Used:				Dedicated Bailer			
C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
4:34 PM	Purging start time.						
4:37 PM	16.9	6.2	2529.7	6.78	36.7	233.4	
4:40 PM	17.5	5.9	2533.1	6.72	27.7	214.1	
	Parameters stabilized, sample collected.						
Quantity of Water Removed from Well (liters): 19.7							
Was well pumped/bailed dry?				No			
Total Amount of Time Purged (minutes:seconds):				06:00			
Average Purge Rate (mL/min):				NA			
D. WELL MAINTENANCE							
Does the well require any future maintenance?				No			
If yes, explain:							
Additional Comments:							

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-31	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	55.7
Initial Static Water Level (feet):	30.06
Initial Groundwater Elevation (ft-amsl):	672.09
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
3:37 PM	Purging start time.						
3:40 PM	16.4	5.2	2547.7	7.13	-75.3	1474.1	
3:43 PM	16.8	4.5	2548.8	7.00	-76.2	748.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	48.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-32	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	32.4
Initial Static Water Level (feet):	13.23
Initial Groundwater Elevation (ft-amsl):	676.33
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:40 PM	Purging start time.						
2:43 PM	17.6	8.0	1938.5	7.10	-3.2	464.5	
2:46 PM	19.0	7.8	1960.0	6.97	-20.5	450.7	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	36.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-34	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	31.4
Initial Static Water Level (feet):	21.20
Initial Groundwater Elevation (ft-amsl):	668.05
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
1:10 PM	Purging start time.						
1:13 PM	15.5	7.0	3466.6	6.89	-37.5	133.7	
1:16 PM	16.4	6.6	3465.6	6.77	-37.9	128.1	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	19.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-35	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	7.1
Initial Static Water Level (feet):	4.05
Initial Groundwater Elevation (ft-amsl):	667.48
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
11:53 AM	Purging start time.						
11:56 AM	17.7	8.4	1418.4	7.19	40.0	843.0	
11:59 AM	17.9	8.3	1418.3	7.18	36.6	616.6	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	5.8
Was well pumped/bailed dry?	Yes
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project: Henry County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-36	Date: 9/21/2023
Gradient: Down	Sampler: Caleb Gomez

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):	47.4
Initial Static Water Level (feet):	25.00
Initial Groundwater Elevation (ft-amsl):	660.66
Equipment Used:	Dedicated Bailer

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:20 AM	Purging start time.						
10:23 AM	13.6	7.0	3234.0	7.10	-37.7	88.5	
10:26 AM	14.2	6.7	3241.6	7.07	-37.4	76.6	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	42.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

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

FORM FOR GROUNDWATER SAMPLING

Project:	Henry County Sanitary Landfill		
Monitoring Well/Piezometer ID:	MW-37	Date:	9/21/2023
Gradient:	Down	Sampler:	Caleb Gomez

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):	23.6
Initial Static Water Level (feet):	15.71
Initial Groundwater Elevation (ft-amsl):	661.01
Equipment Used:	Dedicated Bailer

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:37 AM	Purging start time.						
10:40 AM	14.4	6.7	1277.6	7.56	-39.2	43.6	
10:43 AM	15.0	6.3	1259.9	7.44	-27.9	38.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	14.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	06:00
Average Purge Rate (mL/min):	NA

D. WELL MAINTENANCE

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

Appendix B-1

Laboratory Analytical Data Sheets

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/22/2023 1:04:40 PM

JOB DESCRIPTION

HCSWC 1st 2023 Semi-Annual
SDG NUMBER HCSWC 23001

JOB NUMBER

310-251562-1

Eurofins Cedar Falls

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization



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Case Narrative

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

Job ID: 310-251562-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-251562-1

Receipt

The samples were received on 3/16/2023 4:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C

GC/MS VOA

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

Sample Summary

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-251562-1	MW-21	Ground Water	03/15/23 12:46	03/16/23 16:35
310-251562-2	MW-32	Ground Water	03/15/23 13:12	03/16/23 16:35
310-251562-3	Trip Blank	Water	03/15/23 00:00	03/16/23 16:35

Detection Summary

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

Client Sample ID: MW-21

Lab Sample ID: 310-251562-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.288	J	0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	71.7		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.11		1.00	0.270	ug/L	1		8260D	Total/NA
Trichloroethene	3.64		1.00	0.430	ug/L	1		8260D	Total/NA
Vinyl chloride	35.3		1.00	0.180	ug/L	1		8260D	Total/NA

Client Sample ID: MW-32

Lab Sample ID: 310-251562-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	17.7		1.00	0.180	ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 310-251562-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

Client Sample ID: MW-21

Lab Sample ID: 310-251562-1

Date Collected: 03/15/23 12:46

Matrix: Ground Water

Date Received: 03/16/23 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/20/23 11:38	1
Benzene	0.288	J	0.500	0.220	ug/L			03/20/23 11:38	1
cis-1,2-Dichloroethene	71.7		1.00	0.210	ug/L			03/20/23 11:38	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/20/23 11:38	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/20/23 11:38	1
trans-1,2-Dichloroethene	1.11		1.00	0.270	ug/L			03/20/23 11:38	1
Trichloroethene	3.64		1.00	0.430	ug/L			03/20/23 11:38	1
Vinyl chloride	35.3		1.00	0.180	ug/L			03/20/23 11:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 128					03/20/23 11:38	1
Toluene-d8 (Surr)	96		80 - 120					03/20/23 11:38	1
4-Bromofluorobenzene (Surr)	107		80 - 120					03/20/23 11:38	1

Client Sample Results

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

Client Sample ID: MW-32

Lab Sample ID: 310-251562-2

Date Collected: 03/15/23 13:12

Matrix: Ground Water

Date Received: 03/16/23 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/17/23 12:30	1
Benzene	<0.500		0.500	0.220	ug/L			03/17/23 12:30	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/17/23 12:30	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/17/23 12:30	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/17/23 12:30	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/17/23 12:30	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/17/23 12:30	1
Vinyl chloride	17.7		1.00	0.180	ug/L			03/17/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 128					03/17/23 12:30	1
Toluene-d8 (Surr)	97		80 - 120					03/17/23 12:30	1
4-Bromofluorobenzene (Surr)	107		80 - 120					03/17/23 12:30	1

Client Sample Results

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

Client Sample ID: Trip Blank

Lab Sample ID: 310-251562-3

Date Collected: 03/15/23 00:00

Matrix: Water

Date Received: 03/16/23 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/20/23 10:56	1
Benzene	<0.500		0.500	0.220	ug/L			03/20/23 10:56	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/20/23 10:56	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/20/23 10:56	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/20/23 10:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/20/23 10:56	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/20/23 10:56	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/20/23 10:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		80 - 128					03/20/23 10:56	1
Toluene-d8 (Surr)	96		80 - 120					03/20/23 10:56	1
4-Bromofluorobenzene (Surr)	110		80 - 120					03/20/23 10:56	1

Definitions/Glossary

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

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

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-128)	TOL (80-120)	BFB (80-120)
310-251562-1	MW-21	100	96	107
310-251562-2	MW-32	100	97	107

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-128)	TOL (80-120)	BFB (80-120)
310-251562-3	Trip Blank	103	96	110
LCS 310-381543/6	Lab Control Sample	105	98	101
LCS 310-381543/7	Lab Control Sample	109	98	111
LCS 310-381654/6	Lab Control Sample	102	95	103
LCS 310-381654/7	Lab Control Sample	104	95	107
MB 310-381543/5	Method Blank	106	97	108
MB 310-381654/5	Method Blank	105	95	107

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

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

Lab Sample ID: MB 310-381543/5

Matrix: Water

Analysis Batch: 381543

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/17/23 10:25	1
Benzene	<0.500		0.500	0.220	ug/L			03/17/23 10:25	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/17/23 10:25	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/17/23 10:25	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/17/23 10:25	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/17/23 10:25	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/17/23 10:25	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/17/23 10:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 128		03/17/23 10:25	1
Toluene-d8 (Surr)	97		80 - 120		03/17/23 10:25	1
4-Bromofluorobenzene (Surr)	108		80 - 120		03/17/23 10:25	1

Lab Sample ID: LCS 310-381543/6

Matrix: Water

Analysis Batch: 381543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.0	18.37		ug/L		92	61 - 129
Benzene	20.0	17.67		ug/L		88	73 - 122
cis-1,2-Dichloroethene	20.0	18.10		ug/L		90	74 - 120
Methylene Chloride	20.0	18.13		ug/L		91	50 - 150
Tetrachloroethene	20.0	18.55		ug/L		93	69 - 131
trans-1,2-Dichloroethene	20.0	18.98		ug/L		95	68 - 125
Trichloroethene	20.0	19.91		ug/L		100	73 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	105		80 - 128
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Lab Sample ID: LCS 310-381543/7

Matrix: Water

Analysis Batch: 381543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	15.61		ug/L		78	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	109		80 - 128
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	111		80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

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

Lab Sample ID: MB 310-381654/5

Matrix: Water

Analysis Batch: 381654

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/20/23 09:54	1
Benzene	<0.500		0.500	0.220	ug/L			03/20/23 09:54	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/20/23 09:54	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/20/23 09:54	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/20/23 09:54	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/20/23 09:54	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/20/23 09:54	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/20/23 09:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 128		03/20/23 09:54	1
Toluene-d8 (Surr)	95		80 - 120		03/20/23 09:54	1
4-Bromofluorobenzene (Surr)	107		80 - 120		03/20/23 09:54	1

Lab Sample ID: LCS 310-381654/6

Matrix: Water

Analysis Batch: 381654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.0	17.60		ug/L		88	61 - 129
Benzene	20.0	17.31		ug/L		87	73 - 122
cis-1,2-Dichloroethene	20.0	18.17		ug/L		91	74 - 120
Methylene Chloride	20.0	15.12		ug/L		76	50 - 150
Tetrachloroethene	20.0	20.48		ug/L		102	69 - 131
trans-1,2-Dichloroethene	20.0	18.78		ug/L		94	68 - 125
Trichloroethene	20.0	19.01		ug/L		95	73 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 128
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120

Lab Sample ID: LCS 310-381654/7

Matrix: Water

Analysis Batch: 381654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	16.22		ug/L		81	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	104		80 - 128
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	107		80 - 120

Eurofins Cedar Falls

QC Association Summary

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

GC/MS VOA

Analysis Batch: 381543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-251562-2	MW-32	Total/NA	Ground Water	8260D	
MB 310-381543/5	Method Blank	Total/NA	Water	8260D	
LCS 310-381543/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-381543/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 381654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-251562-1	MW-21	Total/NA	Ground Water	8260D	
310-251562-3	Trip Blank	Total/NA	Water	8260D	
MB 310-381654/5	Method Blank	Total/NA	Water	8260D	
LCS 310-381654/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-381654/7	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

Client Sample ID: MW-21

Date Collected: 03/15/23 12:46

Date Received: 03/16/23 16:35

Lab Sample ID: 310-251562-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381654	WSE8	EET CF	03/20/23 11:38

Client Sample ID: MW-32

Date Collected: 03/15/23 13:12

Date Received: 03/16/23 16:35

Lab Sample ID: 310-251562-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381543	WSE8	EET CF	03/17/23 12:30

Client Sample ID: Trip Blank

Date Collected: 03/15/23 00:00

Date Received: 03/16/23 16:35

Lab Sample ID: 310-251562-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381654	WSE8	EET CF	03/20/23 10:56

Laboratory References:

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

Accreditation/Certification Summary

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23

1

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Method Summary

Client: Evora Consulting
Project/Site: HCSWC 1st 2023 Semi-Annual

Job ID: 310-251562-1
SDG: HCSWC 23001

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

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

Laboratory References:

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



Environment Testing
America



310-251562 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS ENOVA</u>			
City/State:	CITY	STATE	Project:
<u>IA</u>			
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	<u>3-16-23</u>	<u>1635</u>	<u>MC</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee			
☒ Dab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☒ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
<u>All</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID:		Correction Factor (°C):	
<u>W</u>		<u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
<u>0.5</u>		<u>0.5</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No			
a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: Evora Consulting

Job Number: 310-251562-1

SDG Number: HCSWC 23001

Login Number: 251562

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/11/2023 3:25:49 PM

JOB DESCRIPTION

Henry Co Landfill 2nd 2023 Semi-Annual

JOB NUMBER

310-265482-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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10/11/2023 3:25:49 PM

Authorized for release by
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(319)277-2401

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Case Narrative

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Job ID: 310-265482-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-265482-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/22/2023 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3°C and 3.6°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-400561 recovered above the upper control limit for Trichlorofluoromethane (25.2%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data have been reported. The associated sample is impacted: (CCV 310-400561/4).

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

Metals

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

General Chemistry

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

Sample Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-265482-1	MW-4	Ground Water	09/19/23 18:08	09/22/23 16:40
310-265482-2	MW-6	Ground Water	09/21/23 08:58	09/22/23 16:40
310-265482-3	MW-8	Ground Water	09/19/23 15:48	09/22/23 16:40
310-265482-4	MW-10	Ground Water	09/19/23 14:51	09/22/23 16:40
310-265482-5	MW-13	Ground Water	09/21/23 09:36	09/22/23 16:40
310-265482-6	MW-15	Ground Water	09/19/23 18:56	09/22/23 16:40
310-265482-7	MW-16R	Ground Water	09/21/23 11:18	09/22/23 16:40
310-265482-8	MW-20	Ground Water	09/19/23 11:35	09/22/23 16:40
310-265482-9	MW-21	Ground Water	09/21/23 09:54	09/22/23 16:40
310-265482-10	MW-22	Ground Water	09/21/23 10:10	09/22/23 16:40
310-265482-11	MW-23	Ground Water	09/21/23 17:03	09/22/23 16:40
310-265482-12	MW-24	Ground Water	09/21/23 15:18	09/22/23 16:40
310-265482-13	MW-25	Ground Water	09/21/23 14:17	09/22/23 16:40
310-265482-14	MW-26	Ground Water	09/21/23 13:27	09/22/23 16:40
310-265482-15	MW-27	Ground Water	09/21/23 11:01	09/22/23 16:40
310-265482-16	MW-D	Ground Water	09/19/23 11:35	09/22/23 16:40
310-265482-17	MW-28	Ground Water	09/21/23 09:22	09/22/23 16:40
310-265482-18	MW-29	Ground Water	09/21/23 13:58	09/22/23 16:40
310-265482-19	MW-30	Ground Water	09/21/23 16:42	09/22/23 16:40
310-265482-20	MW-31	Ground Water	09/21/23 15:44	09/22/23 16:40
310-265482-21	MW-32	Ground Water	09/21/23 14:47	09/22/23 16:40
310-265482-22	MW-34	Ground Water	09/21/23 13:17	09/22/23 16:40
310-265482-23	MW-35	Ground Water	09/21/23 12:00	09/22/23 16:40
310-265482-24	MW-36	Ground Water	09/21/23 10:27	09/22/23 16:40
310-265482-25	MW-37	Ground Water	09/21/23 10:44	09/22/23 16:40
310-265482-26	Trip Blank	Water	09/21/23 00:00	09/22/23 16:40

Detection Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Client Sample ID: MW-4

Lab Sample ID: 310-265482-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000757	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0727		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00398		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0154		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.13		1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 310-265482-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.04		1.00	0.220	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	0.542	J	1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	0.950		0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.25		1.00	0.210	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.998	J	1.00	0.480	ug/L	1		8260D	Total/NA
Trichloroethene	1.62		1.00	0.430	ug/L	1		8260D	Total/NA
Vinyl chloride	0.305	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.00301		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0985		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cadmium	0.000185	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Chromium	0.00205	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Cobalt	0.0213		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00270	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0398		0.00500	0.00190	mg/L	1		6020B	Total/NA
Vanadium	0.00190	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Zinc	0.0273		0.0200	0.00640	mg/L	1		6020B	Total/NA
Total Suspended Solids	123		15.0	5.10	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 310-265482-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0194		0.00200	0.000640	mg/L	1		6020B	Total/NA
Selenium	0.00332	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.25	J	1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 310-265482-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0407		0.00200	0.000640	mg/L	1		6020B	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 310-265482-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.22	J	5.00	2.20	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene	1220		10.0	2.10	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	9.88	J	10.0	2.70	ug/L	10		8260D	Total/NA
Trichloroethene	15.2		10.0	4.30	ug/L	10		8260D	Total/NA
Vinyl chloride	58.5		10.0	1.80	ug/L	10		8260D	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 310-265482-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0356		0.00200	0.000640	mg/L	1		6020B	Total/NA
Nickel	0.00751		0.00500	0.00190	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Client Sample ID: MW-15 (Continued)

Lab Sample ID: 310-265482-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0532		0.0200	0.00640	mg/L	1		6020B	Total/NA
Total Suspended Solids	21.5		1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-16R

Lab Sample ID: 310-265482-7

No Detections.

Client Sample ID: MW-20

Lab Sample ID: 310-265482-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.607		0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.38		1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.000869	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0640		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00260		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0348		0.00500	0.00190	mg/L	1		6020B	Total/NA
Zinc	0.0153	J	0.0200	0.00640	mg/L	1		6020B	Total/NA
Total Suspended Solids	14.5		3.75	1.28	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 310-265482-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.554		0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	94.3		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.935	J	1.00	0.270	ug/L	1		8260D	Total/NA
Trichloroethene	1.54		1.00	0.430	ug/L	1		8260D	Total/NA
Vinyl chloride	55.4		1.00	0.180	ug/L	1		8260D	Total/NA

Client Sample ID: MW-22

Lab Sample ID: 310-265482-10

No Detections.

Client Sample ID: MW-23

Lab Sample ID: 310-265482-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.497	J	0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	42.0		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.350	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	4.30		1.00	0.180	ug/L	1		8260D	Total/NA

Client Sample ID: MW-24

Lab Sample ID: 310-265482-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	568		10.0	2.10	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	12.0		10.0	2.70	ug/L	10		8260D	Total/NA
Trichloroethene	11.0		10.0	4.30	ug/L	10		8260D	Total/NA
Vinyl chloride	63.9		10.0	1.80	ug/L	10		8260D	Total/NA

Client Sample ID: MW-25

Lab Sample ID: 310-265482-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.24		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.590	J	1.00	0.270	ug/L	1		8260D	Total/NA
Trichloroethene	0.619	J	1.00	0.430	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Client Sample ID: MW-26

Lab Sample ID: 310-265482-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.503	J	1.00	0.180	ug/L	1		8260D	Total/NA

Client Sample ID: MW-27

Lab Sample ID: 310-265482-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.467	J	0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	200		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.08		1.00	0.270	ug/L	1		8260D	Total/NA
Trichloroethene	1.36		1.00	0.430	ug/L	1		8260D	Total/NA
Vinyl chloride	7.90		1.00	0.180	ug/L	1		8260D	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-265482-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.73		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	13.9		1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.57		1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.00119	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0755		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00277		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0432		0.00500	0.00190	mg/L	1		6020B	Total/NA
Zinc	0.0548		0.0200	0.00640	mg/L	1		6020B	Total/NA
Total Suspended Solids	30.8		3.75	1.28	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-28

Lab Sample ID: 310-265482-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.574	J	1.00	0.210	ug/L	1		8260D	Total/NA

Client Sample ID: MW-29

Lab Sample ID: 310-265482-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	95.5		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.94		1.00	0.270	ug/L	1		8260D	Total/NA
Trichloroethene	8.41		1.00	0.430	ug/L	1		8260D	Total/NA

Client Sample ID: MW-30

Lab Sample ID: 310-265482-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.259	J	0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	21.8		1.00	0.210	ug/L	1		8260D	Total/NA
Vinyl chloride	1.76		1.00	0.180	ug/L	1		8260D	Total/NA

Client Sample ID: MW-31

Lab Sample ID: 310-265482-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.442	J	1.00	0.210	ug/L	1		8260D	Total/NA

Client Sample ID: MW-32

Lab Sample ID: 310-265482-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	25.2		1.00	0.180	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Client Sample ID: MW-34

Lab Sample ID: 310-265482-22

No Detections.

Client Sample ID: MW-35

Lab Sample ID: 310-265482-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.02		1.00	0.210	ug/L	1		8260D	Total/NA

Client Sample ID: MW-36

Lab Sample ID: 310-265482-24

No Detections.

Client Sample ID: MW-37

Lab Sample ID: 310-265482-25

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 310-265482-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.84	J	5.00	1.70	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Quantitation Limit Exceptions Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

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

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

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-4

Lab Sample ID: 310-265482-1

Date Collected: 09/19/23 18:08

Matrix: Ground Water

Date Received: 09/22/23 16:40

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			09/26/23 15:23	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/23 15:23	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/23 15:23	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/23 15:23	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/26/23 15:23	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 15:23	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/23 15:23	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/23 15:23	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/23 15:23	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/23 15:23	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/23 15:23	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/23 15:23	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/26/23 15:23	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/23 15:23	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/23 15:23	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/23 15:23	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/23 15:23	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/26/23 15:23	1
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 15:23	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/23 15:23	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/23 15:23	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/23 15:23	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/26/23 15:23	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/23 15:23	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/23 15:23	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/26/23 15:23	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/23 15:23	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/23 15:23	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/23 15:23	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/23 15:23	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 15:23	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/23 15:23	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/23 15:23	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/23 15:23	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/23 15:23	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 15:23	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/23 15:23	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 15:23	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/23 15:23	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 15:23	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/23 15:23	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/23 15:23	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 15:23	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/23 15:23	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/23 15:23	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 15:23	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/23 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 128		09/26/23 15:23	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-4

Lab Sample ID: 310-265482-1

Date Collected: 09/19/23 18:08

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		09/26/23 15:23	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/26/23 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		09/26/23 10:00	10/10/23 20:34	1
Arsenic	0.000757	J	0.00200	0.000530	mg/L		09/26/23 10:00	10/10/23 20:34	1
Barium	0.0727		0.00200	0.000640	mg/L		09/26/23 10:00	10/10/23 20:34	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/26/23 10:00	10/10/23 20:34	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/26/23 10:00	10/10/23 20:34	1
Chromium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:34	1
Cobalt	0.00398		0.000500	0.000170	mg/L		09/26/23 10:00	10/10/23 20:34	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/26/23 10:00	10/10/23 20:34	1
Lead	<0.000500		0.000500	0.000240	mg/L		09/26/23 10:00	10/10/23 20:34	1
Nickel	0.0154		0.00500	0.00190	mg/L		09/26/23 10:00	10/10/23 20:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/26/23 10:00	10/10/23 20:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		09/26/23 10:00	10/10/23 20:34	1
Thallium	<0.00100		0.00100	0.000260	mg/L		09/26/23 10:00	10/10/23 20:34	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:34	1
Zinc	<0.0200		0.0200	0.00640	mg/L		09/26/23 10:00	10/10/23 20:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.13		1.88	0.638	mg/L			09/25/23 12:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-6

Lab Sample ID: 310-265482-2

Date Collected: 09/21/23 08:58

Matrix: Ground Water

Date Received: 09/22/23 16:40

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			09/26/23 00:09	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/23 00:09	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/23 00:09	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/23 00:09	1
1,1-Dichloroethane	5.04		1.00	0.220	ug/L			09/26/23 00:09	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 00:09	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/23 00:09	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/23 00:09	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/23 00:09	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/23 00:09	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/23 00:09	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/23 00:09	1
1,4-Dichlorobenzene	0.542	J	1.00	0.230	ug/L			09/26/23 00:09	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/23 00:09	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/23 12:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/23 00:09	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/23 00:09	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/26/23 00:09	1
Benzene	0.950		0.500	0.220	ug/L			09/26/23 00:09	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/23 00:09	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/23 00:09	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/23 00:09	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/26/23 00:09	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/23 00:09	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/23 00:09	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/26/23 00:09	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/23 00:09	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/23 00:09	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/23 00:09	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/23 00:09	1
cis-1,2-Dichloroethene	4.25		1.00	0.210	ug/L			09/26/23 00:09	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/23 00:09	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/23 00:09	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/23 00:09	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/23 00:09	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 00:09	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/23 00:09	1
Tetrachloroethene	0.998	J	1.00	0.480	ug/L			09/26/23 00:09	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/23 00:09	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 00:09	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/23 00:09	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/23 00:09	1
Trichloroethene	1.62		1.00	0.430	ug/L			09/26/23 00:09	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/23 00:09	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/23 00:09	1
Vinyl chloride	0.305	J	1.00	0.180	ug/L			09/26/23 00:09	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/23 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 128		09/26/23 00:09	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-6

Lab Sample ID: 310-265482-2

Date Collected: 09/21/23 08:58

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		80 - 128		09/26/23 12:29	1
Toluene-d8 (Surr)	97		80 - 120		09/26/23 00:09	1
Toluene-d8 (Surr)	96		80 - 120		09/26/23 12:29	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/26/23 00:09	1
4-Bromofluorobenzene (Surr)	112		80 - 120		09/26/23 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		09/26/23 10:00	10/10/23 20:37	1
Arsenic	0.00301		0.00200	0.000530	mg/L		09/26/23 10:00	10/10/23 20:37	1
Barium	0.0985		0.00200	0.000640	mg/L		09/26/23 10:00	10/10/23 20:37	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/26/23 10:00	10/10/23 20:37	1
Cadmium	0.000185	J	0.000200	0.000100	mg/L		09/26/23 10:00	10/10/23 20:37	1
Chromium	0.00205	J	0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:37	1
Cobalt	0.0213		0.000500	0.000170	mg/L		09/26/23 10:00	10/10/23 20:37	1
Copper	0.00270	J	0.00500	0.00180	mg/L		09/26/23 10:00	10/10/23 20:37	1
Lead	<0.000500		0.000500	0.000240	mg/L		09/26/23 10:00	10/10/23 20:37	1
Nickel	0.0398		0.00500	0.00190	mg/L		09/26/23 10:00	10/10/23 20:37	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/26/23 10:00	10/10/23 20:37	1
Silver	<0.00100		0.00100	0.000500	mg/L		09/26/23 10:00	10/10/23 20:37	1
Thallium	<0.00100		0.00100	0.000260	mg/L		09/26/23 10:00	10/10/23 20:37	1
Vanadium	0.00190	J	0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:37	1
Zinc	0.0273		0.0200	0.00640	mg/L		09/26/23 10:00	10/10/23 20:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	123		15.0	5.10	mg/L			09/26/23 11:01	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-8

Lab Sample ID: 310-265482-3

Date Collected: 09/19/23 15:48

Matrix: Ground Water

Date Received: 09/22/23 16:40

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			09/26/23 15:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/23 15:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/23 15:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/23 15:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/26/23 15:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 15:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/23 15:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/23 15:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/23 15:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/23 15:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/23 15:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/23 15:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/26/23 15:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/23 15:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/23 15:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/23 15:45	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/23 15:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/26/23 15:45	1
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 15:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/23 15:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/23 15:45	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/23 15:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/26/23 15:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/23 15:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/23 15:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/26/23 15:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/23 15:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/23 15:45	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/23 15:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/23 15:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 15:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/23 15:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/23 15:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/23 15:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/23 15:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 15:45	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/23 15:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 15:45	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/23 15:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 15:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/23 15:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/23 15:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 15:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/23 15:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/23 15:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 15:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/23 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 128		09/26/23 15:45	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-8

Lab Sample ID: 310-265482-3

Date Collected: 09/19/23 15:48

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		09/26/23 15:45	1
4-Bromofluorobenzene (Surr)	107		80 - 120		09/26/23 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		09/26/23 10:00	10/10/23 20:41	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		09/26/23 10:00	10/10/23 20:41	1
Barium	0.0194		0.00200	0.000640	mg/L		09/26/23 10:00	10/10/23 20:41	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/26/23 10:00	10/10/23 20:41	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/26/23 10:00	10/10/23 20:41	1
Chromium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:41	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		09/26/23 10:00	10/10/23 20:41	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/26/23 10:00	10/10/23 20:41	1
Lead	<0.000500		0.000500	0.000240	mg/L		09/26/23 10:00	10/10/23 20:41	1
Nickel	<0.00500		0.00500	0.00190	mg/L		09/26/23 10:00	10/10/23 20:41	1
Selenium	0.00332	J	0.00500	0.00140	mg/L		09/26/23 10:00	10/10/23 20:41	1
Silver	<0.00100		0.00100	0.000500	mg/L		09/26/23 10:00	10/10/23 20:41	1
Thallium	<0.00100		0.00100	0.000260	mg/L		09/26/23 10:00	10/10/23 20:41	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:41	1
Zinc	<0.0200		0.0200	0.00640	mg/L		09/26/23 10:00	10/10/23 20:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	1.25	J	1.88	0.638	mg/L			09/25/23 12:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-10

Lab Sample ID: 310-265482-4

Date Collected: 09/19/23 14:51

Matrix: Ground Water

Date Received: 09/22/23 16:40

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			09/26/23 16:08	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/23 16:08	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/23 16:08	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/23 16:08	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/26/23 16:08	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 16:08	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/23 16:08	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/23 16:08	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/23 16:08	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/23 16:08	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/23 16:08	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/23 16:08	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/26/23 16:08	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/23 16:08	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/23 16:08	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/23 16:08	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/23 16:08	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/26/23 16:08	1
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 16:08	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/23 16:08	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/23 16:08	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/23 16:08	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/26/23 16:08	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/23 16:08	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/23 16:08	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/26/23 16:08	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/23 16:08	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/23 16:08	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/23 16:08	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/23 16:08	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 16:08	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/23 16:08	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/23 16:08	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/23 16:08	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/23 16:08	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 16:08	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/23 16:08	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 16:08	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/23 16:08	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 16:08	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/23 16:08	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/23 16:08	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 16:08	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/23 16:08	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/23 16:08	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 16:08	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/23 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 128		09/26/23 16:08	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-10

Lab Sample ID: 310-265482-4

Date Collected: 09/19/23 14:51

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		09/26/23 16:08	1
4-Bromofluorobenzene (Surr)	103		80 - 120		09/26/23 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		09/26/23 10:00	10/10/23 20:44	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		09/26/23 10:00	10/10/23 20:44	1
Barium	0.0407		0.00200	0.000640	mg/L		09/26/23 10:00	10/10/23 20:44	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/26/23 10:00	10/10/23 20:44	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/26/23 10:00	10/10/23 20:44	1
Chromium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:44	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		09/26/23 10:00	10/10/23 20:44	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/26/23 10:00	10/10/23 20:44	1
Lead	<0.000500		0.000500	0.000240	mg/L		09/26/23 10:00	10/10/23 20:44	1
Nickel	<0.00500		0.00500	0.00190	mg/L		09/26/23 10:00	10/10/23 20:44	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/26/23 10:00	10/10/23 20:44	1
Silver	<0.00100		0.00100	0.000500	mg/L		09/26/23 10:00	10/10/23 20:44	1
Thallium	<0.00100		0.00100	0.000260	mg/L		09/26/23 10:00	10/10/23 20:44	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:44	1
Zinc	<0.0200		0.0200	0.00640	mg/L		09/26/23 10:00	10/10/23 20:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	0.638	mg/L			09/25/23 12:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-13

Lab Sample ID: 310-265482-5

Date Collected: 09/21/23 09:36

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.22	J	5.00	2.20	ug/L			09/26/23 06:17	10
cis-1,2-Dichloroethene	1220		10.0	2.10	ug/L			09/26/23 06:17	10
1,1-Dichloroethene	<20.0		20.0	5.60	ug/L			09/26/23 06:17	10
Methylene Chloride	<50.0		50.0	17.0	ug/L			09/26/23 06:17	10
Tetrachloroethene	<10.0		10.0	4.80	ug/L			09/26/23 06:17	10
trans-1,2-Dichloroethene	9.88	J	10.0	2.70	ug/L			09/26/23 06:17	10
Trichloroethene	15.2		10.0	4.30	ug/L			09/26/23 06:17	10
Vinyl chloride	58.5		10.0	1.80	ug/L			09/26/23 06:17	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		80 - 120					09/26/23 06:17	10
Dibromofluoromethane (Surr)	102		80 - 128					09/26/23 06:17	10
Toluene-d8 (Surr)	106		80 - 120					09/26/23 06:17	10

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-15

Lab Sample ID: 310-265482-6

Date Collected: 09/19/23 18:56

Matrix: Ground Water

Date Received: 09/22/23 16:40

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			09/26/23 16:31	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/23 16:31	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/23 16:31	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/23 16:31	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/26/23 16:31	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 16:31	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/23 16:31	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/23 16:31	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/23 16:31	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/23 16:31	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/23 16:31	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/23 16:31	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/26/23 16:31	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/23 16:31	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/23 16:31	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/23 16:31	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/23 16:31	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/26/23 16:31	1
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 16:31	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/23 16:31	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/23 16:31	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/23 16:31	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/26/23 16:31	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/23 16:31	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/23 16:31	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/26/23 16:31	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/23 16:31	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/23 16:31	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/23 16:31	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/23 16:31	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 16:31	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/23 16:31	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/23 16:31	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/23 16:31	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/23 16:31	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 16:31	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/23 16:31	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 16:31	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/23 16:31	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 16:31	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/23 16:31	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/23 16:31	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 16:31	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/23 16:31	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/23 16:31	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 16:31	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/23 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 128		09/26/23 16:31	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-15

Lab Sample ID: 310-265482-6

Date Collected: 09/19/23 18:56

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		09/26/23 16:31	1
4-Bromofluorobenzene (Surr)	103		80 - 120		09/26/23 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		09/26/23 10:00	10/10/23 20:51	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		09/26/23 10:00	10/10/23 20:51	1
Barium	0.0356		0.00200	0.000640	mg/L		09/26/23 10:00	10/10/23 20:51	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/26/23 10:00	10/10/23 20:51	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/26/23 10:00	10/10/23 20:51	1
Chromium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:51	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		09/26/23 10:00	10/10/23 20:51	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/26/23 10:00	10/10/23 20:51	1
Lead	<0.000500		0.000500	0.000240	mg/L		09/26/23 10:00	10/10/23 20:51	1
Nickel	0.00751		0.00500	0.00190	mg/L		09/26/23 10:00	10/10/23 20:51	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/26/23 10:00	10/10/23 20:51	1
Silver	<0.00100		0.00100	0.000500	mg/L		09/26/23 10:00	10/10/23 20:51	1
Thallium	<0.00100		0.00100	0.000260	mg/L		09/26/23 10:00	10/10/23 20:51	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:51	1
Zinc	0.0532		0.0200	0.00640	mg/L		09/26/23 10:00	10/10/23 20:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	21.5		1.88	0.638	mg/L			09/25/23 12:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-16R

Lab Sample ID: 310-265482-7

Date Collected: 09/21/23 11:18

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 00:01	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 00:01	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 00:01	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 00:01	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 00:01	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 00:01	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 00:01	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		80 - 120					09/26/23 00:01	1
Dibromofluoromethane (Surr)	100		80 - 128					09/26/23 00:01	1
Toluene-d8 (Surr)	96		80 - 120					09/26/23 00:01	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-20

Lab Sample ID: 310-265482-8

Date Collected: 09/19/23 11:35

Matrix: Ground Water

Date Received: 09/22/23 16:40

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			09/26/23 16:53	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/23 16:53	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/23 16:53	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/23 16:53	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/26/23 16:53	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 16:53	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/23 16:53	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/23 16:53	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/23 16:53	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/23 16:53	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/23 16:53	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/23 16:53	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/26/23 16:53	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/23 16:53	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/23 16:53	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/23 16:53	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/23 16:53	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/26/23 16:53	1
Benzene	0.607		0.500	0.220	ug/L			09/26/23 16:53	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/23 16:53	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/23 16:53	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/23 16:53	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/26/23 16:53	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/23 16:53	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/23 16:53	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/26/23 16:53	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/23 16:53	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/23 16:53	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/23 16:53	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/23 16:53	1
cis-1,2-Dichloroethene	1.38		1.00	0.210	ug/L			09/26/23 16:53	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/23 16:53	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/23 16:53	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/23 16:53	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/23 16:53	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 16:53	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/23 16:53	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 16:53	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/23 16:53	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 16:53	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/23 16:53	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/23 16:53	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 16:53	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/23 16:53	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/23 16:53	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 16:53	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/23 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 128		09/26/23 16:53	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-20

Lab Sample ID: 310-265482-8

Date Collected: 09/19/23 11:35

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/26/23 16:53	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/26/23 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		09/26/23 10:00	10/10/23 20:54	1
Arsenic	0.000869	J	0.00200	0.000530	mg/L		09/26/23 10:00	10/10/23 20:54	1
Barium	0.0640		0.00200	0.000640	mg/L		09/26/23 10:00	10/10/23 20:54	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/26/23 10:00	10/10/23 20:54	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/26/23 10:00	10/10/23 20:54	1
Chromium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:54	1
Cobalt	0.00260		0.000500	0.000170	mg/L		09/26/23 10:00	10/10/23 20:54	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/26/23 10:00	10/10/23 20:54	1
Lead	<0.000500		0.000500	0.000240	mg/L		09/26/23 10:00	10/10/23 20:54	1
Nickel	0.0348		0.00500	0.00190	mg/L		09/26/23 10:00	10/10/23 20:54	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/26/23 10:00	10/10/23 20:54	1
Silver	<0.00100		0.00100	0.000500	mg/L		09/26/23 10:00	10/10/23 20:54	1
Thallium	<0.00100		0.00100	0.000260	mg/L		09/26/23 10:00	10/10/23 20:54	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 20:54	1
Zinc	0.0153	J	0.0200	0.00640	mg/L		09/26/23 10:00	10/10/23 20:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	14.5		3.75	1.28	mg/L			09/25/23 12:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-21

Lab Sample ID: 310-265482-9

Date Collected: 09/21/23 09:54

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.554		0.500	0.220	ug/L			09/26/23 00:25	1
cis-1,2-Dichloroethene	94.3		1.00	0.210	ug/L			09/26/23 00:25	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 00:25	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 00:25	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 00:25	1
trans-1,2-Dichloroethene	0.935 J		1.00	0.270	ug/L			09/26/23 00:25	1
Trichloroethene	1.54		1.00	0.430	ug/L			09/26/23 00:25	1
Vinyl chloride	55.4		1.00	0.180	ug/L			09/26/23 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		80 - 120					09/26/23 00:25	1
Dibromofluoromethane (Surr)	107		80 - 128					09/26/23 00:25	1
Toluene-d8 (Surr)	96		80 - 120					09/26/23 00:25	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-22

Lab Sample ID: 310-265482-10

Date Collected: 09/21/23 10:10

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 00:48	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 00:48	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 00:48	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 00:48	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 00:48	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 00:48	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 00:48	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		80 - 120					09/26/23 00:48	1
Dibromofluoromethane (Surr)	102		80 - 128					09/26/23 00:48	1
Toluene-d8 (Surr)	93		80 - 120					09/26/23 00:48	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-23

Lab Sample ID: 310-265482-11

Date Collected: 09/21/23 17:03

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.497	J	0.500	0.220	ug/L			09/26/23 01:12	1
cis-1,2-Dichloroethene	42.0		1.00	0.210	ug/L			09/26/23 01:12	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 01:12	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 01:12	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 01:12	1
trans-1,2-Dichloroethene	0.350	J	1.00	0.270	ug/L			09/26/23 01:12	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 01:12	1
Vinyl chloride	4.30		1.00	0.180	ug/L			09/26/23 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120					09/26/23 01:12	1
Dibromofluoromethane (Surr)	98		80 - 128					09/26/23 01:12	1
Toluene-d8 (Surr)	97		80 - 120					09/26/23 01:12	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-24

Lab Sample ID: 310-265482-12

Date Collected: 09/21/23 15:18

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.00		5.00	2.20	ug/L			09/26/23 06:40	10
cis-1,2-Dichloroethene	568		10.0	2.10	ug/L			09/26/23 06:40	10
1,1-Dichloroethene	<20.0		20.0	5.60	ug/L			09/26/23 06:40	10
Methylene Chloride	<50.0		50.0	17.0	ug/L			09/26/23 06:40	10
Tetrachloroethene	<10.0		10.0	4.80	ug/L			09/26/23 06:40	10
trans-1,2-Dichloroethene	12.0		10.0	2.70	ug/L			09/26/23 06:40	10
Trichloroethene	11.0		10.0	4.30	ug/L			09/26/23 06:40	10
Vinyl chloride	63.9		10.0	1.80	ug/L			09/26/23 06:40	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		80 - 120					09/26/23 06:40	10
Dibromofluoromethane (Surr)	102		80 - 128					09/26/23 06:40	10
Toluene-d8 (Surr)	97		80 - 120					09/26/23 06:40	10

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-25

Lab Sample ID: 310-265482-13

Date Collected: 09/21/23 14:17

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 01:35	1
cis-1,2-Dichloroethene	8.24		1.00	0.210	ug/L			09/26/23 01:35	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 01:35	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 01:35	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 01:35	1
trans-1,2-Dichloroethene	0.590 J		1.00	0.270	ug/L			09/26/23 01:35	1
Trichloroethene	0.619 J		1.00	0.430	ug/L			09/26/23 01:35	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		80 - 120					09/26/23 01:35	1
Dibromofluoromethane (Surr)	103		80 - 128					09/26/23 01:35	1
Toluene-d8 (Surr)	103		80 - 120					09/26/23 01:35	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-26

Lab Sample ID: 310-265482-14

Date Collected: 09/21/23 13:27

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 01:58	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 01:58	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 01:58	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 01:58	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 01:58	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 01:58	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 01:58	1
Vinyl chloride	0.503	J	1.00	0.180	ug/L			09/26/23 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120					09/26/23 01:58	1
Dibromofluoromethane (Surr)	99		80 - 128					09/26/23 01:58	1
Toluene-d8 (Surr)	96		80 - 120					09/26/23 01:58	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-27

Lab Sample ID: 310-265482-15

Date Collected: 09/21/23 11:01

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.467	J	0.500	0.220	ug/L			09/26/23 02:22	1
cis-1,2-Dichloroethene	200		1.00	0.210	ug/L			09/26/23 02:22	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 02:22	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 02:22	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 02:22	1
trans-1,2-Dichloroethene	1.08		1.00	0.270	ug/L			09/26/23 02:22	1
Trichloroethene	1.36		1.00	0.430	ug/L			09/26/23 02:22	1
Vinyl chloride	7.90		1.00	0.180	ug/L			09/26/23 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		80 - 120					09/26/23 02:22	1
Dibromofluoromethane (Surr)	97		80 - 128					09/26/23 02:22	1
Toluene-d8 (Surr)	107		80 - 120					09/26/23 02:22	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-D

Lab Sample ID: 310-265482-16

Date Collected: 09/19/23 11:35

Matrix: Ground Water

Date Received: 09/22/23 16:40

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			09/26/23 17:16	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/23 17:16	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/23 17:16	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/23 17:16	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/26/23 17:16	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 17:16	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/23 17:16	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/23 17:16	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/23 17:16	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/23 17:16	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/23 17:16	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/23 17:16	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/26/23 17:16	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/23 17:16	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/23 17:16	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/23 17:16	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/23 17:16	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/26/23 17:16	1
Benzene	1.73		0.500	0.220	ug/L			09/26/23 17:16	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/23 17:16	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/23 17:16	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/23 17:16	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/26/23 17:16	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/23 17:16	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/23 17:16	1
Chlorobenzene	13.9		1.00	0.400	ug/L			09/26/23 17:16	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/23 17:16	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/23 17:16	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/23 17:16	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/23 17:16	1
cis-1,2-Dichloroethene	2.57		1.00	0.210	ug/L			09/26/23 17:16	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/23 17:16	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/23 17:16	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/23 17:16	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/23 17:16	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 17:16	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/23 17:16	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 17:16	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/23 17:16	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 17:16	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/23 17:16	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/23 17:16	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 17:16	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/23 17:16	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/23 17:16	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 17:16	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/23 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 128		09/26/23 17:16	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-D

Lab Sample ID: 310-265482-16

Date Collected: 09/19/23 11:35

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		09/26/23 17:16	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/26/23 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		09/26/23 10:00	10/10/23 21:15	1
Arsenic	0.00119	J	0.00200	0.000530	mg/L		09/26/23 10:00	10/10/23 21:15	1
Barium	0.0755		0.00200	0.000640	mg/L		09/26/23 10:00	10/10/23 21:15	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/26/23 10:00	10/10/23 21:15	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/26/23 10:00	10/10/23 21:15	1
Chromium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 21:15	1
Cobalt	0.00277		0.000500	0.000170	mg/L		09/26/23 10:00	10/10/23 21:15	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/26/23 10:00	10/10/23 21:15	1
Lead	<0.000500		0.000500	0.000240	mg/L		09/26/23 10:00	10/10/23 21:15	1
Nickel	0.0432		0.00500	0.00190	mg/L		09/26/23 10:00	10/10/23 21:15	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/26/23 10:00	10/10/23 21:15	1
Silver	<0.00100		0.00100	0.000500	mg/L		09/26/23 10:00	10/10/23 21:15	1
Thallium	<0.00100		0.00100	0.000260	mg/L		09/26/23 10:00	10/10/23 21:15	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 21:15	1
Zinc	0.0548		0.0200	0.00640	mg/L		09/26/23 10:00	10/10/23 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	30.8		3.75	1.28	mg/L			09/25/23 12:15	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-28

Lab Sample ID: 310-265482-17

Date Collected: 09/21/23 09:22

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 02:45	1
cis-1,2-Dichloroethene	0.574	J	1.00	0.210	ug/L			09/26/23 02:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 02:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 02:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 02:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 02:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 02:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		80 - 120					09/26/23 02:45	1
Dibromofluoromethane (Surr)	102		80 - 128					09/26/23 02:45	1
Toluene-d8 (Surr)	93		80 - 120					09/26/23 02:45	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-29

Lab Sample ID: 310-265482-18

Date Collected: 09/21/23 13:58

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 03:09	1
cis-1,2-Dichloroethene	95.5		1.00	0.210	ug/L			09/26/23 03:09	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 03:09	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 03:09	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 03:09	1
trans-1,2-Dichloroethene	1.94		1.00	0.270	ug/L			09/26/23 03:09	1
Trichloroethene	8.41		1.00	0.430	ug/L			09/26/23 03:09	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120					09/26/23 03:09	1
Dibromofluoromethane (Surr)	97		80 - 128					09/26/23 03:09	1
Toluene-d8 (Surr)	96		80 - 120					09/26/23 03:09	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-30

Lab Sample ID: 310-265482-19

Date Collected: 09/21/23 16:42

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.259	J	0.500	0.220	ug/L			09/26/23 03:33	1
cis-1,2-Dichloroethene	21.8		1.00	0.210	ug/L			09/26/23 03:33	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 03:33	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 03:33	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 03:33	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 03:33	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 03:33	1
Vinyl chloride	1.76		1.00	0.180	ug/L			09/26/23 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		80 - 120					09/26/23 03:33	1
Dibromofluoromethane (Surr)	97		80 - 128					09/26/23 03:33	1
Toluene-d8 (Surr)	98		80 - 120					09/26/23 03:33	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-31

Lab Sample ID: 310-265482-20

Date Collected: 09/21/23 15:44

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 03:56	1
cis-1,2-Dichloroethene	0.442	J	1.00	0.210	ug/L			09/28/23 12:38	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 03:56	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 03:56	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 03:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 03:56	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 03:56	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120		09/26/23 03:56	1
4-Bromofluorobenzene (Surr)	108		80 - 120		09/28/23 12:38	1
Dibromofluoromethane (Surr)	99		80 - 128		09/26/23 03:56	1
Dibromofluoromethane (Surr)	95		80 - 128		09/28/23 12:38	1
Toluene-d8 (Surr)	103		80 - 120		09/26/23 03:56	1
Toluene-d8 (Surr)	94		80 - 120		09/28/23 12:38	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-32

Lab Sample ID: 310-265482-21

Date Collected: 09/21/23 14:47

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 04:19	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 04:19	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 04:19	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 04:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 04:19	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 04:19	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 04:19	1
Vinyl chloride	25.2		1.00	0.180	ug/L			09/26/23 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		80 - 120					09/26/23 04:19	1
Dibromofluoromethane (Surr)	102		80 - 128					09/26/23 04:19	1
Toluene-d8 (Surr)	102		80 - 120					09/26/23 04:19	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-34

Lab Sample ID: 310-265482-22

Date Collected: 09/21/23 13:17

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 04:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 04:43	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 04:43	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 04:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 04:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 04:43	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 04:43	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 04:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120					09/26/23 04:43	1
Dibromofluoromethane (Surr)	98		80 - 128					09/26/23 04:43	1
Toluene-d8 (Surr)	103		80 - 120					09/26/23 04:43	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-35

Lab Sample ID: 310-265482-23

Date Collected: 09/21/23 12:00

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 05:06	1
cis-1,2-Dichloroethene	1.02		1.00	0.210	ug/L			09/26/23 05:06	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 05:06	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 05:06	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 05:06	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 05:06	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 05:06	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		80 - 120					09/26/23 05:06	1
Dibromofluoromethane (Surr)	103		80 - 128					09/26/23 05:06	1
Toluene-d8 (Surr)	103		80 - 120					09/26/23 05:06	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-36

Lab Sample ID: 310-265482-24

Date Collected: 09/21/23 10:27

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 05:30	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 05:30	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 05:30	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 05:30	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 05:30	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 05:30	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 05:30	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		80 - 120					09/26/23 05:30	1
Dibromofluoromethane (Surr)	97		80 - 128					09/26/23 05:30	1
Toluene-d8 (Surr)	104		80 - 120					09/26/23 05:30	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-37

Lab Sample ID: 310-265482-25

Date Collected: 09/21/23 10:44

Matrix: Ground Water

Date Received: 09/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 05:53	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 05:53	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 05:53	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 05:53	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 05:53	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 05:53	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 05:53	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 05:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120					09/26/23 05:53	1
Dibromofluoromethane (Surr)	102		80 - 128					09/26/23 05:53	1
Toluene-d8 (Surr)	104		80 - 120					09/26/23 05:53	1

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-265482-26

Date Collected: 09/21/23 00:00

Matrix: Water

Date Received: 09/22/23 16:40

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			09/25/23 12:10	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/25/23 12:10	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/25/23 12:10	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/25/23 12:10	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/25/23 12:10	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/25/23 12:10	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/25/23 12:10	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/25/23 12:10	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/25/23 12:10	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/25/23 12:10	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/25/23 12:10	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/25/23 12:10	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/25/23 12:10	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/25/23 12:10	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/25/23 12:10	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/25/23 12:10	1
Acetone	<10.0		10.0	3.10	ug/L			09/25/23 12:10	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/25/23 12:10	1
Benzene	<0.500		0.500	0.220	ug/L			09/25/23 12:10	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/25/23 12:10	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/25/23 12:10	1
Bromoform	<5.00		5.00	0.780	ug/L			09/25/23 12:10	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/25/23 12:10	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/25/23 12:10	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/25/23 12:10	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/25/23 12:10	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/25/23 12:10	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/25/23 12:10	1
Chloroform	<3.00		3.00	1.30	ug/L			09/25/23 12:10	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/25/23 12:10	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/25/23 12:10	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/25/23 12:10	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/25/23 12:10	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/25/23 12:10	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/25/23 12:10	1
Methylene Chloride	1.84 J		5.00	1.70	ug/L			09/25/23 12:10	1
Styrene	<1.00		1.00	0.370	ug/L			09/25/23 12:10	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/25/23 12:10	1
Toluene	<1.00		1.00	0.430	ug/L			09/25/23 12:10	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/25/23 12:10	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/25/23 12:10	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/25/23 12:10	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/25/23 12:10	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/25/23 12:10	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/25/23 12:10	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/25/23 12:10	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/25/23 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 128		09/25/23 12:10	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-265482-26

Date Collected: 09/21/23 00:00

Matrix: Water

Date Received: 09/22/23 16:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		09/25/23 12:10	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/25/23 12:10	1

Definitions/Glossary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-128)	TOL (80-120)	BFB (80-120)
310-265482-1	MW-4	100	96	105
310-265482-2	MW-6	107	97	105
310-265482-2	MW-6	99	96	112
310-265482-3	MW-8	102	98	107
310-265482-4	MW-10	100	98	103
310-265482-5	MW-13	102	106	109
310-265482-6	MW-15	102	97	103
310-265482-7	MW-16R	100	96	111
310-265482-8	MW-20	105	99	105
310-265482-9	MW-21	107	96	117
310-265482-10	MW-22	102	93	110
310-265482-11	MW-23	98	97	104
310-265482-12	MW-24	102	97	109
310-265482-13	MW-25	103	103	116
310-265482-14	MW-26	99	96	107
310-265482-15	MW-27	97	107	115
310-265482-15 MS	MW-27	109	99	107
310-265482-15 MSD	MW-27	104	97	108
310-265482-16	MW-D	101	98	104
310-265482-17	MW-28	102	93	110
310-265482-18	MW-29	97	96	108
310-265482-19	MW-30	97	98	114
310-265482-20	MW-31	99	103	108
310-265482-20	MW-31	95	94	108
310-265482-21	MW-32	102	102	109
310-265482-22	MW-34	98	103	107
310-265482-23	MW-35	103	103	110
310-265482-24	MW-36	97	104	111
310-265482-25	MW-37	102	104	108

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-128)	TOL (80-120)	BFB (80-120)
310-265482-26	Trip Blank	106	98	104
LCS 310-400499/6	Lab Control Sample	103	101	93
LCS 310-400499/7	Lab Control Sample	112	96	102
LCS 310-400548/6	Lab Control Sample	99	100	100
LCS 310-400548/7	Lab Control Sample	103	97	108
LCS 310-400557/6	Lab Control Sample	106	102	98
LCS 310-400557/7	Lab Control Sample	99	98	115
LCS 310-400561/6	Lab Control Sample	109	99	94
LCS 310-400561/7	Lab Control Sample	113	97	99

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Surrogate Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (80-128)	TOL (80-120)	BFB (80-120)
LCS 310-400623/6	Lab Control Sample	104	104	106
LCS 310-400623/7	Lab Control Sample	103	96	111
LCS 310-400883/6	Lab Control Sample	103	98	104
LCS 310-400883/7	Lab Control Sample	108	96	105
MB 310-400499/5	Method Blank	110	96	101
MB 310-400548/5	Method Blank	101	97	104
MB 310-400557/5	Method Blank	107	101	108
MB 310-400561/5	Method Blank	107	97	102
MB 310-400623/5	Method Blank	107	103	113
MB 310-400883/5	Method Blank	100	95	107

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: MB 310-400499/5

Matrix: Water

Analysis Batch: 400499

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			09/25/23 10:05	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/25/23 10:05	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/25/23 10:05	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/25/23 10:05	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/25/23 10:05	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/25/23 10:05	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/25/23 10:05	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/25/23 10:05	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/25/23 10:05	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/25/23 10:05	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/25/23 10:05	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/25/23 10:05	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/25/23 10:05	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/25/23 10:05	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/25/23 10:05	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/25/23 10:05	1
Acetone	<10.0		10.0	3.10	ug/L			09/25/23 10:05	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/25/23 10:05	1
Benzene	<0.500		0.500	0.220	ug/L			09/25/23 10:05	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/25/23 10:05	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/25/23 10:05	1
Bromoform	<5.00		5.00	0.780	ug/L			09/25/23 10:05	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/25/23 10:05	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/25/23 10:05	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/25/23 10:05	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/25/23 10:05	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/25/23 10:05	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/25/23 10:05	1
Chloroform	<3.00		3.00	1.30	ug/L			09/25/23 10:05	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/25/23 10:05	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/25/23 10:05	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/25/23 10:05	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/25/23 10:05	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/25/23 10:05	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/25/23 10:05	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/25/23 10:05	1
Styrene	<1.00		1.00	0.370	ug/L			09/25/23 10:05	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/25/23 10:05	1
Toluene	<1.00		1.00	0.430	ug/L			09/25/23 10:05	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/25/23 10:05	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/25/23 10:05	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/25/23 10:05	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/25/23 10:05	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/25/23 10:05	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/25/23 10:05	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/25/23 10:05	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/25/23 10:05	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: MB 310-400499/5

Matrix: Water

Analysis Batch: 400499

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		80 - 128		09/25/23 10:05	1
Toluene-d8 (Surr)	96		80 - 120		09/25/23 10:05	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/25/23 10:05	1

Lab Sample ID: LCS 310-400499/6

Matrix: Water

Analysis Batch: 400499

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	16.19		ug/L		81	68 - 123
1,1,1-Trichloroethane	20.0	19.19		ug/L		96	71 - 128
1,1,2,2-Tetrachloroethane	20.0	16.57		ug/L		83	64 - 124
1,1,2-Trichloroethane	20.0	17.49		ug/L		87	70 - 124
1,1-Dichloroethane	20.0	18.31		ug/L		92	71 - 123
1,1-Dichloroethene	20.0	19.55		ug/L		98	61 - 129
1,2,3-Trichloropropane	20.0	17.80		ug/L		89	64 - 125
1,2-Dibromo-3-Chloropropane	20.0	16.24		ug/L		81	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.32		ug/L		92	73 - 125
1,2-Dichlorobenzene	20.0	17.31		ug/L		87	68 - 120
1,2-Dichloroethane	20.0	18.58		ug/L		93	70 - 124
1,2-Dichloropropane	20.0	17.86		ug/L		89	73 - 121
1,4-Dichlorobenzene	20.0	17.04		ug/L		85	67 - 120
2-Butanone (MEK)	40.0	32.16		ug/L		80	50 - 150
2-Hexanone	40.0	33.16		ug/L		83	60 - 132
4-Methyl-2-pentanone (MIBK)	40.0	32.25		ug/L		81	62 - 130
Acetone	40.0	37.80		ug/L		94	50 - 150
Acrylonitrile	200	165.5		ug/L		83	50 - 150
Benzene	20.0	17.98		ug/L		90	73 - 122
Bromochloromethane	20.0	20.47		ug/L		102	68 - 132
Bromodichloromethane	20.0	17.74		ug/L		89	72 - 121
Bromoform	20.0	15.02		ug/L		75	55 - 129
Carbon disulfide	20.0	18.08		ug/L		90	58 - 131
Carbon tetrachloride	20.0	20.73		ug/L		104	67 - 132
Chlorobenzene	20.0	18.65		ug/L		93	69 - 121
Chlorodibromomethane	20.0	18.11		ug/L		91	69 - 122
Chloroform	20.0	19.87		ug/L		99	72 - 120
cis-1,2-Dichloroethene	20.0	19.45		ug/L		97	74 - 120
cis-1,3-Dichloropropene	20.0	17.50		ug/L		88	71 - 126
Dibromomethane	20.0	18.71		ug/L		94	72 - 123
Ethylbenzene	20.0	18.19		ug/L		91	69 - 122
Iodomethane	20.0	15.29		ug/L		76	10 - 150
Methylene Chloride	20.0	19.85		ug/L		99	50 - 150
Styrene	20.0	18.38		ug/L		92	67 - 125
Tetrachloroethene	20.0	20.65		ug/L		103	69 - 131
Toluene	20.0	18.67		ug/L		93	72 - 121
trans-1,2-Dichloroethene	20.0	17.83		ug/L		89	68 - 125
trans-1,3-Dichloropropene	20.0	16.51		ug/L		83	68 - 124
trans-1,4-Dichloro-2-butene	20.0	14.82		ug/L		74	48 - 150

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: LCS 310-400499/6

Matrix: Water

Analysis Batch: 400499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	20.0	18.25		ug/L		91	73 - 126
Vinyl acetate	40.0	34.71		ug/L		87	50 - 150
Xylenes, Total	40.0	35.77		ug/L		89	68 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	103		80 - 128
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120

Lab Sample ID: LCS 310-400499/7

Matrix: Water

Analysis Batch: 400499

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	18.10		ug/L		90	24 - 150
Chloroethane	20.0	19.56		ug/L		98	51 - 137
Chloromethane	20.0	18.30		ug/L		91	37 - 150
Trichlorofluoromethane	20.0	23.47		ug/L		117	56 - 144
Vinyl chloride	20.0	21.08		ug/L		105	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	112		80 - 128
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: MB 310-400548/5

Matrix: Water

Analysis Batch: 400548

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			09/26/23 09:00	1
1,1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/23 09:00	1
1,1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/23 09:00	1
1,1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/23 09:00	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/26/23 09:00	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 09:00	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/23 09:00	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/23 09:00	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/23 09:00	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/23 09:00	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/23 09:00	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/23 09:00	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/26/23 09:00	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/23 09:00	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/23 09:00	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/23 09:00	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/23 09:00	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/26/23 09:00	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: MB 310-400548/5

Matrix: Water

Analysis Batch: 400548

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 09:00	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/23 09:00	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/23 09:00	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/23 09:00	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/26/23 09:00	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/23 09:00	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/23 09:00	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/26/23 09:00	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/23 09:00	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/23 09:00	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/23 09:00	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/23 09:00	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 09:00	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/23 09:00	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/23 09:00	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/23 09:00	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/23 09:00	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 09:00	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/23 09:00	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 09:00	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/23 09:00	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 09:00	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/23 09:00	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/23 09:00	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 09:00	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/23 09:00	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/23 09:00	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 09:00	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/23 09:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 128		09/26/23 09:00	1
Toluene-d8 (Surr)	97		80 - 120		09/26/23 09:00	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/26/23 09:00	1

Lab Sample ID: LCS 310-400548/6

Matrix: Water

Analysis Batch: 400548

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	17.07		ug/L		85	68 - 123
1,1,1-Trichloroethane	20.0	20.22		ug/L		101	71 - 128
1,1,2,2-Tetrachloroethane	20.0	19.40		ug/L		97	64 - 124
1,1,2-Trichloroethane	20.0	21.00		ug/L		105	70 - 124
1,1-Dichloroethane	20.0	20.45		ug/L		102	71 - 123
1,1-Dichloroethene	20.0	21.49		ug/L		107	61 - 129
1,2,3-Trichloropropane	20.0	22.87		ug/L		114	64 - 125
1,2-Dibromo-3-Chloropropane	20.0	18.41		ug/L		92	50 - 150

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: LCS 310-400548/6

Matrix: Water

Analysis Batch: 400548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	20.0	20.47		ug/L		102	73 - 125
1,2-Dichlorobenzene	20.0	20.10		ug/L		101	68 - 120
1,2-Dichloroethane	20.0	19.04		ug/L		95	70 - 124
1,2-Dichloropropane	20.0	19.07		ug/L		95	73 - 121
1,4-Dichlorobenzene	20.0	20.28		ug/L		101	67 - 120
2-Butanone (MEK)	40.0	41.09		ug/L		103	50 - 150
2-Hexanone	40.0	39.82		ug/L		100	60 - 132
4-Methyl-2-pentanone (MIBK)	40.0	39.59		ug/L		99	62 - 130
Acetone	40.0	41.21		ug/L		103	50 - 150
Acrylonitrile	200	209.0		ug/L		105	50 - 150
Benzene	20.0	20.06		ug/L		100	73 - 122
Bromochloromethane	20.0	20.18		ug/L		101	68 - 132
Bromodichloromethane	20.0	19.63		ug/L		98	72 - 121
Bromoform	20.0	19.27		ug/L		96	55 - 129
Carbon disulfide	20.0	20.67		ug/L		103	58 - 131
Carbon tetrachloride	20.0	21.19		ug/L		106	67 - 132
Chlorobenzene	20.0	19.79		ug/L		99	69 - 121
Chlorodibromomethane	20.0	18.98		ug/L		95	69 - 122
Chloroform	20.0	19.33		ug/L		97	72 - 120
cis-1,2-Dichloroethene	20.0	19.87		ug/L		99	74 - 120
cis-1,3-Dichloropropene	20.0	18.95		ug/L		95	71 - 126
Dibromomethane	20.0	21.24		ug/L		106	72 - 123
Ethylbenzene	20.0	20.12		ug/L		101	69 - 122
Iodomethane	20.0	17.77		ug/L		89	10 - 150
Methylene Chloride	20.0	20.28		ug/L		101	50 - 150
Styrene	20.0	20.19		ug/L		101	67 - 125
Tetrachloroethene	20.0	20.96		ug/L		105	69 - 131
Toluene	20.0	19.85		ug/L		99	72 - 121
trans-1,2-Dichloroethene	20.0	19.55		ug/L		98	68 - 125
trans-1,3-Dichloropropene	20.0	19.57		ug/L		98	68 - 124
trans-1,4-Dichloro-2-butene	20.0	17.63		ug/L		88	48 - 150
Trichloroethene	20.0	19.66		ug/L		98	73 - 126
Vinyl acetate	40.0	38.33		ug/L		96	50 - 150
Xylenes, Total	40.0	40.64		ug/L		102	68 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	99		80 - 128
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Lab Sample ID: LCS 310-400548/7

Matrix: Water

Analysis Batch: 400548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	20.45		ug/L		102	24 - 150
Chloroethane	20.0	20.14		ug/L		101	51 - 137
Chloromethane	20.0	20.67		ug/L		103	37 - 150

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: LCS 310-400548/7

Matrix: Water

Analysis Batch: 400548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	20.0	23.54		ug/L		118	56 - 144
Vinyl chloride	20.0	21.69		ug/L		108	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	103		80 - 128
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	108		80 - 120

Lab Sample ID: MB 310-400557/5

Matrix: Water

Analysis Batch: 400557

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/25/23 22:27	1
Benzene	<0.500		0.500	0.220	ug/L			09/25/23 22:27	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/25/23 22:27	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/25/23 22:27	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/25/23 22:27	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/25/23 22:27	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/25/23 22:27	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/25/23 22:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 128		09/25/23 22:27	1
Toluene-d8 (Surr)	101		80 - 120		09/25/23 22:27	1
4-Bromofluorobenzene (Surr)	108		80 - 120		09/25/23 22:27	1

Lab Sample ID: LCS 310-400557/6

Matrix: Water

Analysis Batch: 400557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.0	17.25		ug/L		86	61 - 129
Benzene	20.0	17.76		ug/L		89	73 - 122
cis-1,2-Dichloroethene	20.0	17.58		ug/L		88	74 - 120
Methylene Chloride	20.0	18.99		ug/L		95	50 - 150
Tetrachloroethene	20.0	21.14		ug/L		106	69 - 131
trans-1,2-Dichloroethene	20.0	16.67		ug/L		83	68 - 125
Trichloroethene	20.0	17.83		ug/L		89	73 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	106		80 - 128
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: LCS 310-400557/7

Matrix: Water

Analysis Batch: 400557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride			20.0	21.46		ug/L		107	57 - 136
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Dibromofluoromethane (Surr)	99		80 - 128						
Toluene-d8 (Surr)	98		80 - 120						
4-Bromofluorobenzene (Surr)	115		80 - 120						

Lab Sample ID: 310-265482-15 MS

Matrix: Ground Water

Analysis Batch: 400557

Client Sample ID: MW-27

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	<2.00		25.0	18.30		ug/L		73	39 - 130
Benzene	0.467	J	25.0	21.65		ug/L		85	47 - 130
cis-1,2-Dichloroethene	200		25.0	198.7	4	ug/L		-6	52 - 130
Methylene Chloride	<5.00		25.0	20.46		ug/L		82	50 - 150
Tetrachloroethene	<1.00		25.0	21.36		ug/L		85	42 - 131
trans-1,2-Dichloroethene	1.08		25.0	20.47		ug/L		78	54 - 130
Trichloroethene	1.36		25.0	21.86		ug/L		82	55 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
Dibromofluoromethane (Surr)	109		80 - 128						
Toluene-d8 (Surr)	99		80 - 120						
4-Bromofluorobenzene (Surr)	107		80 - 120						

Lab Sample ID: 310-265482-15 MSD

Matrix: Ground Water

Analysis Batch: 400557

Client Sample ID: MW-27

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,1-Dichloroethene	<2.00		25.0	17.30		ug/L		69	39 - 130	6	28
Benzene	0.467	J	25.0	21.18		ug/L		83	47 - 130	2	20
cis-1,2-Dichloroethene	200		25.0	188.4	4	ug/L		-47	52 - 130	5	20
Methylene Chloride	<5.00		25.0	19.26		ug/L		77	50 - 150	6	24
Tetrachloroethene	<1.00		25.0	20.59		ug/L		82	42 - 131	4	20
trans-1,2-Dichloroethene	1.08		25.0	21.55		ug/L		82	54 - 130	5	24
Trichloroethene	1.36		25.0	20.58		ug/L		77	55 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Dibromofluoromethane (Surr)	104		80 - 128								
Toluene-d8 (Surr)	97		80 - 120								
4-Bromofluorobenzene (Surr)	108		80 - 120								

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QC Sample Results

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

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

Lab Sample ID: MB 310-400561/5

Matrix: Water

Analysis Batch: 400561

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			09/25/23 21:15	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/25/23 21:15	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/25/23 21:15	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/25/23 21:15	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/25/23 21:15	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/25/23 21:15	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/25/23 21:15	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/25/23 21:15	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/25/23 21:15	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/25/23 21:15	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/25/23 21:15	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/25/23 21:15	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/25/23 21:15	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/25/23 21:15	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/25/23 21:15	1
Acetone	<10.0		10.0	3.10	ug/L			09/25/23 21:15	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/25/23 21:15	1
Benzene	<0.500		0.500	0.220	ug/L			09/25/23 21:15	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/25/23 21:15	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/25/23 21:15	1
Bromoform	<5.00		5.00	0.780	ug/L			09/25/23 21:15	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/25/23 21:15	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/25/23 21:15	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/25/23 21:15	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/25/23 21:15	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/25/23 21:15	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/25/23 21:15	1
Chloroform	<3.00		3.00	1.30	ug/L			09/25/23 21:15	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/25/23 21:15	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/25/23 21:15	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/25/23 21:15	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/25/23 21:15	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/25/23 21:15	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/25/23 21:15	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/25/23 21:15	1
Styrene	<1.00		1.00	0.370	ug/L			09/25/23 21:15	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/25/23 21:15	1
Toluene	<1.00		1.00	0.430	ug/L			09/25/23 21:15	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/25/23 21:15	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/25/23 21:15	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/25/23 21:15	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/25/23 21:15	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/25/23 21:15	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/25/23 21:15	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/25/23 21:15	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/25/23 21:15	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: MB 310-400561/5

Matrix: Water

Analysis Batch: 400561

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 128		09/25/23 21:15	1
Toluene-d8 (Surr)	97		80 - 120		09/25/23 21:15	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/25/23 21:15	1

Lab Sample ID: LCS 310-400561/6

Matrix: Water

Analysis Batch: 400561

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	16.56		ug/L		83	68 - 123
1,1,1-Trichloroethane	20.0	19.45		ug/L		97	71 - 128
1,1,1,2,2-Tetrachloroethane	20.0	16.03		ug/L		80	64 - 124
1,1,2-Trichloroethane	20.0	17.86		ug/L		89	70 - 124
1,1-Dichloroethane	20.0	18.75		ug/L		94	71 - 123
1,1-Dichloroethene	20.0	19.98		ug/L		100	61 - 129
1,2,3-Trichloropropane	20.0	18.18		ug/L		91	64 - 125
1,2-Dibromo-3-Chloropropane	20.0	16.93		ug/L		85	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.66		ug/L		93	73 - 125
1,2-Dichlorobenzene	20.0	17.93		ug/L		90	68 - 120
1,2-Dichloroethane	20.0	19.47		ug/L		97	70 - 124
1,2-Dichloropropane	20.0	18.26		ug/L		91	73 - 121
1,4-Dichlorobenzene	20.0	17.24		ug/L		86	67 - 120
2-Butanone (MEK)	40.0	30.32		ug/L		76	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	30.76		ug/L		77	62 - 130
Acetone	40.0	38.53		ug/L		96	50 - 150
Acrylonitrile	200	162.9		ug/L		81	50 - 150
Benzene	20.0	18.14		ug/L		91	73 - 122
Bromochloromethane	20.0	21.02		ug/L		105	68 - 132
Bromodichloromethane	20.0	18.21		ug/L		91	72 - 121
Bromoform	20.0	15.10		ug/L		75	55 - 129
Carbon disulfide	20.0	18.38		ug/L		92	58 - 131
Carbon tetrachloride	20.0	21.26		ug/L		106	67 - 132
Chlorobenzene	20.0	18.75		ug/L		94	69 - 121
Chlorodibromomethane	20.0	18.49		ug/L		92	69 - 122
Chloroform	20.0	20.00		ug/L		100	72 - 120
cis-1,2-Dichloroethene	20.0	20.09		ug/L		100	74 - 120
cis-1,3-Dichloropropene	20.0	16.80		ug/L		84	71 - 126
Dibromomethane	20.0	19.17		ug/L		96	72 - 123
Ethylbenzene	20.0	18.01		ug/L		90	69 - 122
Iodomethane	20.0	17.89		ug/L		89	10 - 150
Methylene Chloride	20.0	20.94		ug/L		105	50 - 150
Styrene	20.0	18.11		ug/L		91	67 - 125
Tetrachloroethene	20.0	21.34		ug/L		107	69 - 131
Toluene	20.0	19.21		ug/L		96	72 - 121
trans-1,2-Dichloroethene	20.0	19.00		ug/L		95	68 - 125
trans-1,3-Dichloropropene	20.0	16.35		ug/L		82	68 - 124
trans-1,4-Dichloro-2-butene	20.0	12.70		ug/L		64	48 - 150
Trichloroethene	20.0	18.39		ug/L		92	73 - 126

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: LCS 310-400561/6

Matrix: Water

Analysis Batch: 400561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	40.0	31.09		ug/L		78	50 - 150
Xylenes, Total	40.0	36.49		ug/L		91	68 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	109		80 - 128
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120

Lab Sample ID: LCS 310-400561/7

Matrix: Water

Analysis Batch: 400561

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	18.61		ug/L		93	24 - 150
Chloroethane	20.0	20.30		ug/L		101	51 - 137
Chloromethane	20.0	18.35		ug/L		92	37 - 150
Trichlorofluoromethane	20.0	23.76		ug/L		119	56 - 144
Vinyl chloride	20.0	21.20		ug/L		106	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	113		80 - 128
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120

Lab Sample ID: MB 310-400623/5

Matrix: Water

Analysis Batch: 400623

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			09/26/23 09:45	1
1,1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/23 09:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/23 09:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/23 09:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/26/23 09:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/23 09:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/23 09:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/23 09:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/23 09:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/23 09:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/23 09:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/23 09:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/26/23 09:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/23 09:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/23 09:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/23 09:45	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/23 09:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			09/26/23 09:45	1
Benzene	<0.500		0.500	0.220	ug/L			09/26/23 09:45	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: MB 310-400623/5

Matrix: Water

Analysis Batch: 400623

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/23 09:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/23 09:45	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/23 09:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/23 09:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/23 09:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/26/23 09:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/23 09:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/23 09:45	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/23 09:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/23 09:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/23 09:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/23 09:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/23 09:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/23 09:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/23 09:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/23 09:45	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/23 09:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/23 09:45	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/23 09:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/23 09:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/23 09:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/23 09:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/23 09:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/23 09:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/23 09:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/23 09:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/23 09:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 128		09/26/23 09:45	1
Toluene-d8 (Surr)	103		80 - 120		09/26/23 09:45	1
4-Bromofluorobenzene (Surr)	113		80 - 120		09/26/23 09:45	1

Lab Sample ID: LCS 310-400623/6

Matrix: Water

Analysis Batch: 400623

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	18.96		ug/L		95	68 - 123
1,1,1-Trichloroethane	20.0	18.07		ug/L		90	71 - 128
1,1,2,2-Tetrachloroethane	20.0	17.83		ug/L		89	64 - 124
1,1,2-Trichloroethane	20.0	18.93		ug/L		95	70 - 124
1,1-Dichloroethane	20.0	20.62		ug/L		103	71 - 123
1,1-Dichloroethene	20.0	17.00		ug/L		85	61 - 129
1,2,3-Trichloropropane	20.0	18.53		ug/L		93	64 - 125
1,2-Dibromo-3-Chloropropane	20.0	21.89		ug/L		109	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.87		ug/L		99	73 - 125
1,2-Dichlorobenzene	20.0	20.10		ug/L		100	68 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: LCS 310-400623/6

Matrix: Water

Analysis Batch: 400623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	18.47		ug/L		92	70 - 124
1,2-Dichloropropane	20.0	20.18		ug/L		101	73 - 121
1,4-Dichlorobenzene	20.0	20.00		ug/L		100	67 - 120
2-Butanone (MEK)	40.0	42.11		ug/L		105	50 - 150
2-Hexanone	40.0	42.35		ug/L		106	60 - 132
4-Methyl-2-pentanone (MIBK)	40.0	42.37		ug/L		106	62 - 130
Acetone	40.0	47.31		ug/L		118	50 - 150
Acrylonitrile	200	173.4		ug/L		87	50 - 150
Benzene	20.0	18.61		ug/L		93	73 - 122
Bromochloromethane	20.0	21.93		ug/L		110	68 - 132
Bromodichloromethane	20.0	18.44		ug/L		92	72 - 121
Bromoform	20.0	20.00		ug/L		100	55 - 129
Carbon disulfide	20.0	18.61		ug/L		93	58 - 131
Carbon tetrachloride	20.0	20.54		ug/L		103	67 - 132
Chlorobenzene	20.0	18.35		ug/L		92	69 - 121
Chlorodibromomethane	20.0	19.13		ug/L		96	69 - 122
Chloroform	20.0	18.93		ug/L		95	72 - 120
cis-1,2-Dichloroethene	20.0	19.02		ug/L		95	74 - 120
cis-1,3-Dichloropropene	20.0	18.43		ug/L		92	71 - 126
Dibromomethane	20.0	18.50		ug/L		93	72 - 123
Ethylbenzene	20.0	18.44		ug/L		92	69 - 122
Iodomethane	20.0	14.49		ug/L		72	10 - 150
Methylene Chloride	20.0	17.23		ug/L		86	50 - 150
Styrene	20.0	18.53		ug/L		93	67 - 125
Tetrachloroethene	20.0	19.90		ug/L		100	69 - 131
Toluene	20.0	18.11		ug/L		91	72 - 121
trans-1,2-Dichloroethene	20.0	17.41		ug/L		87	68 - 125
trans-1,3-Dichloropropene	20.0	19.92		ug/L		100	68 - 124
trans-1,4-Dichloro-2-butene	20.0	18.39		ug/L		92	48 - 150
Trichloroethene	20.0	19.00		ug/L		95	73 - 126
Vinyl acetate	40.0	46.30		ug/L		116	50 - 150
Xylenes, Total	40.0	36.41		ug/L		91	68 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	104		80 - 128
Toluene-d8 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	106		80 - 120

Lab Sample ID: LCS 310-400623/7

Matrix: Water

Analysis Batch: 400623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	20.0	21.04		ug/L		105	51 - 137
Chloromethane	20.0	18.27		ug/L		91	37 - 150
Trichlorofluoromethane	20.0	26.12		ug/L		131	56 - 144
Vinyl chloride	20.0	19.99		ug/L		100	57 - 136

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: LCS 310-400623/7

Matrix: Water

Analysis Batch: 400623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	103		80 - 128
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	111		80 - 120

Lab Sample ID: MB 310-400883/5

Matrix: Water

Analysis Batch: 400883

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/28/23 09:54	1
Benzene	<0.500		0.500	0.220	ug/L			09/28/23 09:54	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/28/23 09:54	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/28/23 09:54	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/28/23 09:54	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/28/23 09:54	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/28/23 09:54	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/28/23 09:54	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
Dibromofluoromethane (Surr)	100		80 - 128					09/28/23 09:54	1
Toluene-d8 (Surr)	95		80 - 120					09/28/23 09:54	1
4-Bromofluorobenzene (Surr)	107		80 - 120					09/28/23 09:54	1

Lab Sample ID: LCS 310-400883/6

Matrix: Water

Analysis Batch: 400883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
1,1-Dichloroethene	20.0	18.49		ug/L		92	61 - 129
Benzene	20.0	18.64		ug/L		93	73 - 122
cis-1,2-Dichloroethene	20.0	20.10		ug/L		100	74 - 120
Methylene Chloride	20.0	18.44		ug/L		92	50 - 150
Tetrachloroethene	20.0	22.44		ug/L		112	69 - 131
trans-1,2-Dichloroethene	20.0	19.40		ug/L		97	68 - 125
Trichloroethene	20.0	20.56		ug/L		103	73 - 126

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	103		80 - 128
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120

Lab Sample ID: LCS 310-400883/7

Matrix: Water

Analysis Batch: 400883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Vinyl chloride	20.0	23.90		ug/L		119	57 - 136

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: LCS 310-400883/7

Matrix: Water

Analysis Batch: 400883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	108		80 - 128
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-400592/1-A

Matrix: Water

Analysis Batch: 402156

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400592

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		09/26/23 10:00	10/10/23 19:30	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		09/26/23 10:00	10/10/23 19:30	1
Barium	<0.00200		0.00200	0.000640	mg/L		09/26/23 10:00	10/10/23 19:30	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/26/23 10:00	10/10/23 19:30	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/26/23 10:00	10/10/23 19:30	1
Chromium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 19:30	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		09/26/23 10:00	10/10/23 19:30	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/26/23 10:00	10/10/23 19:30	1
Lead	<0.000500		0.000500	0.000240	mg/L		09/26/23 10:00	10/10/23 19:30	1
Nickel	<0.00500		0.00500	0.00190	mg/L		09/26/23 10:00	10/10/23 19:30	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/26/23 10:00	10/10/23 19:30	1
Silver	<0.00100		0.00100	0.000500	mg/L		09/26/23 10:00	10/10/23 19:30	1
Thallium	<0.00100		0.00100	0.000260	mg/L		09/26/23 10:00	10/10/23 19:30	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/26/23 10:00	10/10/23 19:30	1
Zinc	<0.0200		0.0200	0.00640	mg/L		09/26/23 10:00	10/10/23 19:30	1

Lab Sample ID: LCS 310-400592/2-A

Matrix: Water

Analysis Batch: 402156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400592

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Antimony	0.200	0.2264		mg/L		113	80 - 120		
Arsenic	0.200	0.2111		mg/L		106	80 - 120		
Barium	0.100	0.09192		mg/L		92	80 - 120		
Beryllium	0.100	0.09472		mg/L		95	80 - 120		
Cadmium	0.100	0.08637		mg/L		86	80 - 120		
Chromium	0.100	0.1099		mg/L		110	80 - 120		
Cobalt	0.100	0.1109		mg/L		111	80 - 120		
Copper	0.200	0.2124		mg/L		106	80 - 120		
Lead	0.200	0.1999		mg/L		100	80 - 120		
Nickel	0.200	0.2152		mg/L		108	80 - 120		
Selenium	0.400	0.3592		mg/L		90	80 - 120		
Silver	0.100	0.1079		mg/L		108	80 - 120		
Thallium	0.200	0.1739		mg/L		87	80 - 120		
Vanadium	0.100	0.1023		mg/L		102	80 - 120		
Zinc	0.200	0.1770		mg/L		89	80 - 120		

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: 310-265482-4 DU

Matrix: Ground Water

Analysis Batch: 402156

Client Sample ID: MW-10

Prep Type: Total/NA

Prep Batch: 400592

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	0.0407		0.03995		mg/L		2	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	<0.000500		<0.000500		mg/L		NC	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Nickel	<0.00500		<0.00500		mg/L		NC	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20
Vanadium	<0.00500		<0.00500		mg/L		NC	20
Zinc	<0.0200		<0.0200		mg/L		NC	20

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

Lab Sample ID: MB 310-400556/1

Matrix: Water

Analysis Batch: 400556

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	1.70	mg/L			09/25/23 12:15	1

Lab Sample ID: LCS 310-400556/2

Matrix: Water

Analysis Batch: 400556

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	93.00		mg/L		93	75 - 116

Lab Sample ID: MB 310-400681/1

Matrix: Water

Analysis Batch: 400681

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	1.70	mg/L			09/26/23 11:01	1

Lab Sample ID: LCS 310-400681/2

Matrix: Water

Analysis Batch: 400681

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

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QC Sample Results

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

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

Lab Sample ID: 310-265482-2 DU					Client Sample ID: MW-6				
Matrix: Ground Water					Prep Type: Total/NA				
Analysis Batch: 400681									
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit	
Total Suspended Solids	123		122.0		mg/L		0.8	35	

QC Association Summary

Client: SCS Engineers

Job ID: 310-265482-1

GC/MS VOA

Analysis Batch: 400499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-26	Trip Blank	Total/NA	Water	8260D	
MB 310-400499/5	Method Blank	Total/NA	Water	8260D	
LCS 310-400499/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-400499/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 400548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-1	MW-4	Total/NA	Ground Water	8260D	
310-265482-3	MW-8	Total/NA	Ground Water	8260D	
310-265482-4	MW-10	Total/NA	Ground Water	8260D	
310-265482-6	MW-15	Total/NA	Ground Water	8260D	
310-265482-8	MW-20	Total/NA	Ground Water	8260D	
310-265482-16	MW-D	Total/NA	Ground Water	8260D	
MB 310-400548/5	Method Blank	Total/NA	Water	8260D	
LCS 310-400548/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-400548/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 400557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-5	MW-13	Total/NA	Ground Water	8260D	
310-265482-7	MW-16R	Total/NA	Ground Water	8260D	
310-265482-9	MW-21	Total/NA	Ground Water	8260D	
310-265482-10	MW-22	Total/NA	Ground Water	8260D	
310-265482-11	MW-23	Total/NA	Ground Water	8260D	
310-265482-12	MW-24	Total/NA	Ground Water	8260D	
310-265482-13	MW-25	Total/NA	Ground Water	8260D	
310-265482-14	MW-26	Total/NA	Ground Water	8260D	
310-265482-15	MW-27	Total/NA	Ground Water	8260D	
310-265482-17	MW-28	Total/NA	Ground Water	8260D	
310-265482-18	MW-29	Total/NA	Ground Water	8260D	
310-265482-19	MW-30	Total/NA	Ground Water	8260D	
310-265482-20	MW-31	Total/NA	Ground Water	8260D	
310-265482-21	MW-32	Total/NA	Ground Water	8260D	
310-265482-22	MW-34	Total/NA	Ground Water	8260D	
310-265482-23	MW-35	Total/NA	Ground Water	8260D	
310-265482-24	MW-36	Total/NA	Ground Water	8260D	
310-265482-25	MW-37	Total/NA	Ground Water	8260D	
MB 310-400557/5	Method Blank	Total/NA	Water	8260D	
LCS 310-400557/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-400557/7	Lab Control Sample	Total/NA	Water	8260D	
310-265482-15 MS	MW-27	Total/NA	Ground Water	8260D	
310-265482-15 MSD	MW-27	Total/NA	Ground Water	8260D	

Analysis Batch: 400561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-2	MW-6	Total/NA	Ground Water	8260D	
MB 310-400561/5	Method Blank	Total/NA	Water	8260D	
LCS 310-400561/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-400561/7	Lab Control Sample	Total/NA	Water	8260D	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

GC/MS VOA

Analysis Batch: 400623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-2	MW-6	Total/NA	Ground Water	8260D	
MB 310-400623/5	Method Blank	Total/NA	Water	8260D	
LCS 310-400623/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-400623/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 400883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-20	MW-31	Total/NA	Ground Water	8260D	
MB 310-400883/5	Method Blank	Total/NA	Water	8260D	
LCS 310-400883/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-400883/7	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 400592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-1	MW-4	Total/NA	Ground Water	3005A	
310-265482-2	MW-6	Total/NA	Ground Water	3005A	
310-265482-3	MW-8	Total/NA	Ground Water	3005A	
310-265482-4	MW-10	Total/NA	Ground Water	3005A	
310-265482-6	MW-15	Total/NA	Ground Water	3005A	
310-265482-8	MW-20	Total/NA	Ground Water	3005A	
310-265482-16	MW-D	Total/NA	Ground Water	3005A	
MB 310-400592/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-400592/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-265482-4 DU	MW-10	Total/NA	Ground Water	3005A	

Analysis Batch: 402156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-1	MW-4	Total/NA	Ground Water	6020B	400592
310-265482-2	MW-6	Total/NA	Ground Water	6020B	400592
310-265482-3	MW-8	Total/NA	Ground Water	6020B	400592
310-265482-4	MW-10	Total/NA	Ground Water	6020B	400592
310-265482-6	MW-15	Total/NA	Ground Water	6020B	400592
310-265482-8	MW-20	Total/NA	Ground Water	6020B	400592
310-265482-16	MW-D	Total/NA	Ground Water	6020B	400592
MB 310-400592/1-A	Method Blank	Total/NA	Water	6020B	400592
LCS 310-400592/2-A	Lab Control Sample	Total/NA	Water	6020B	400592
310-265482-4 DU	MW-10	Total/NA	Ground Water	6020B	400592

General Chemistry

Analysis Batch: 400556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-1	MW-4	Total/NA	Ground Water	I-3765-85	
310-265482-3	MW-8	Total/NA	Ground Water	I-3765-85	
310-265482-4	MW-10	Total/NA	Ground Water	I-3765-85	
310-265482-6	MW-15	Total/NA	Ground Water	I-3765-85	
310-265482-8	MW-20	Total/NA	Ground Water	I-3765-85	
310-265482-16	MW-D	Total/NA	Ground Water	I-3765-85	
MB 310-400556/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-400556/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

General Chemistry

Analysis Batch: 400681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-265482-2	MW-6	Total/NA	Ground Water	I-3765-85	
MB 310-400681/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-400681/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-265482-2 DU	MW-6	Total/NA	Ground Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-4

Lab Sample ID: 310-265482-1

Date Collected: 09/19/23 18:08

Matrix: Ground Water

Date Received: 09/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400548	FE5V	EET CF	09/26/23 15:23
Total/NA	Prep	3005A			400592	KCK5	EET CF	09/26/23 10:00
Total/NA	Analysis	6020B		1	402156	A6US	EET CF	10/10/23 20:34
Total/NA	Analysis	I-3765-85		1	400556	DGU1	EET CF	09/25/23 12:15

Client Sample ID: MW-6

Lab Sample ID: 310-265482-2

Date Collected: 09/21/23 08:58

Matrix: Ground Water

Date Received: 09/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400561	WSE8	EET CF	09/26/23 00:09
Total/NA	Analysis	8260D		1	400623	WSE8	EET CF	09/26/23 12:29
Total/NA	Prep	3005A			400592	KCK5	EET CF	09/26/23 10:00
Total/NA	Analysis	6020B		1	402156	A6US	EET CF	10/10/23 20:37
Total/NA	Analysis	I-3765-85		1	400681	DGU1	EET CF	09/26/23 11:01

Client Sample ID: MW-8

Lab Sample ID: 310-265482-3

Date Collected: 09/19/23 15:48

Matrix: Ground Water

Date Received: 09/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400548	FE5V	EET CF	09/26/23 15:45
Total/NA	Prep	3005A			400592	KCK5	EET CF	09/26/23 10:00
Total/NA	Analysis	6020B		1	402156	A6US	EET CF	10/10/23 20:41
Total/NA	Analysis	I-3765-85		1	400556	DGU1	EET CF	09/25/23 12:15

Client Sample ID: MW-10

Lab Sample ID: 310-265482-4

Date Collected: 09/19/23 14:51

Matrix: Ground Water

Date Received: 09/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400548	FE5V	EET CF	09/26/23 16:08
Total/NA	Prep	3005A			400592	KCK5	EET CF	09/26/23 10:00
Total/NA	Analysis	6020B		1	402156	A6US	EET CF	10/10/23 20:44
Total/NA	Analysis	I-3765-85		1	400556	DGU1	EET CF	09/25/23 12:15

Client Sample ID: MW-13

Lab Sample ID: 310-265482-5

Date Collected: 09/21/23 09:36

Matrix: Ground Water

Date Received: 09/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	400557	WSE8	EET CF	09/26/23 06:17

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-15

Date Collected: 09/19/23 18:56

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400548	FE5V	EET CF	09/26/23 16:31
Total/NA	Prep	3005A			400592	KCK5	EET CF	09/26/23 10:00
Total/NA	Analysis	6020B		1	402156	A6US	EET CF	10/10/23 20:51
Total/NA	Analysis	I-3765-85		1	400556	DGU1	EET CF	09/25/23 12:15

Client Sample ID: MW-16R

Date Collected: 09/21/23 11:18

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 00:01

Client Sample ID: MW-20

Date Collected: 09/19/23 11:35

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400548	FE5V	EET CF	09/26/23 16:53
Total/NA	Prep	3005A			400592	KCK5	EET CF	09/26/23 10:00
Total/NA	Analysis	6020B		1	402156	A6US	EET CF	10/10/23 20:54
Total/NA	Analysis	I-3765-85		1	400556	DGU1	EET CF	09/25/23 12:15

Client Sample ID: MW-21

Date Collected: 09/21/23 09:54

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 00:25

Client Sample ID: MW-22

Date Collected: 09/21/23 10:10

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 00:48

Client Sample ID: MW-23

Date Collected: 09/21/23 17:03

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 01:12

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-24

Date Collected: 09/21/23 15:18

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	400557	WSE8	EET CF	09/26/23 06:40

Client Sample ID: MW-25

Date Collected: 09/21/23 14:17

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-13

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 01:35

Client Sample ID: MW-26

Date Collected: 09/21/23 13:27

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-14

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 01:58

Client Sample ID: MW-27

Date Collected: 09/21/23 11:01

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-15

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 02:22

Client Sample ID: MW-D

Date Collected: 09/19/23 11:35

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-16

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400548	FE5V	EET CF	09/26/23 17:16
Total/NA	Prep	3005A			400592	KCK5	EET CF	09/26/23 10:00
Total/NA	Analysis	6020B		1	402156	A6US	EET CF	10/10/23 21:15
Total/NA	Analysis	I-3765-85		1	400556	DGU1	EET CF	09/25/23 12:15

Client Sample ID: MW-28

Date Collected: 09/21/23 09:22

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-17

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 02:45

Client Sample ID: MW-29

Date Collected: 09/21/23 13:58

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-18

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 03:09

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: MW-30

Date Collected: 09/21/23 16:42

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-19

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 03:33

Client Sample ID: MW-31

Date Collected: 09/21/23 15:44

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-20

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 03:56
Total/NA	Analysis	8260D		1	400883	WSE8	EET CF	09/28/23 12:38

Client Sample ID: MW-32

Date Collected: 09/21/23 14:47

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-21

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 04:19

Client Sample ID: MW-34

Date Collected: 09/21/23 13:17

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-22

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 04:43

Client Sample ID: MW-35

Date Collected: 09/21/23 12:00

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-23

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 05:06

Client Sample ID: MW-36

Date Collected: 09/21/23 10:27

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-24

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 05:30

Client Sample ID: MW-37

Date Collected: 09/21/23 10:44

Date Received: 09/22/23 16:40

Lab Sample ID: 310-265482-25

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400557	WSE8	EET CF	09/26/23 05:53

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-265482-26

Date Collected: 09/21/23 00:00

Matrix: Water

Date Received: 09/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400499	WSE8	EET CF	09/25/23 12:10

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Job ID: 310-265482-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: SCS Engineers

Job ID: 310-265482-1

Project/Site: Henry Co Landfill 2nd 2023 Semi-Annual

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

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

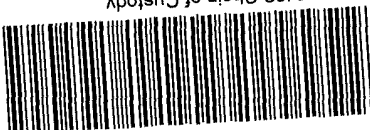
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

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



Environment Testing
America



310-265482 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: SC3			
City/State: CT		Project: FTA	
Receipt Information			
Date/Time Received: 9/22/23		Time Received By: SC	
Delivery Type: ☒ UPS ☐ FedEx Ground ☐ US Mail ☐ Speed-Dee			
Condition of Cooler/Containers			
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:			
Sample(s) received in Cooler? ☒ Yes ☐ No			
Multiple Coolers? ☒ Yes ☐ No			
Cooler Custody Seals Present? ☒ Yes ☐ No			
Sample Custody Seals Present? ☒ Yes ☐ No			
Trip Blank Present? ☒ Yes ☐ No			
If yes: Which VOA samples are in cooler? 1			
Temperature Record			
Coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Other:			
Thermometer ID: 0			
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): 1.3		Corrected Temp (°C): 1.3	
• 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 PMI before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information		Client: <u>SLC</u>	
City/State:		STATE	Project:
Date/Time Received:		DATE	TIME
Delivery Type:		Received By: <u>SLC</u>	
☒ UPS ☐ FedEx Ground ☐ US Mail ☐ Speed-Dee		☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:	
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID: _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>2</u> of <u>2</u>			
Cooler Custody Seals Present? ☒ Yes ☐ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☒ Yes ☐ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☒ Yes ☐ No If yes: Which VOA samples are in cooler? <u>1</u>			
Temperature Record			
Coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.6</u>		Corrected Temp (°C): <u>3.6</u>	
• Sample Container Temperature			
Container(s) used:		CONTAINER 1	CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

704 Enterprise Drive
Cedar Falls, Iowa 50613

319 277 2401 (phone)
515 792.7989 (fax)

515 792.7989 (fax)

SAMPLER
SCS Engineers

SAMPLER 265 E-79978

SITE NAME: Henry County Sanitary Landfill

ADDRESS: _____

STAT/ZIP: _____

NAME: _____
NUMBER: _____

SIGNATURE: _____

2000

REPORT TO:

NAME.

COMPANY NAME:

PROJECT NAME:

1998

CITY/STATE/ZIP

Nathan Ohrt

ICS Engineers

Henry County, Ga

11690 All State 11/22/2024

West Des Moines

10

Semi-Annual

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Journal of Management Inquiry

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1000-0000/2006/0000-0000\$05.00/0

1000

[illegible]

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-265482-1

Login Number: 265482

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Tucker, Sarah L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B-2

Data Validation Documentation

Completed by: Nathan Ohrt
Sample Date: 3/15/2023
Lab Report Date: 3/22/2023
Site Name: Henry County Sanitary Landfill
Project Type: HMSP - Semi-Annual
Lab Report Number: 310-251562

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody
Temperature
Preservation
Condition
Case Narrative
Holding Times

X			
X			
X			
X			
X			
X			

Analytical Sensitivity and Blanks

Method Blank Detections
Trip Blank Detections

X			None.
X			None.

Accuracy

ICV/CCV

X			
X			
X			
X			

LCS/LCSD

MS/MSD

Surrogates (organics only)

Precision

QA/QC Sample RPDs
Field Duplicates

X			
		X	

Completed by: Nathan Ohrt
Sample Date: 9/19,21/2023
Lab Report Date: 10/11/2023
Site Name: Henry County Sanitary Landfill
Project Type: HMSP - Semi-Annual
Lab Report Number: 310-265482

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody
Temperature
Preservation
Condition
Case Narrative
Holding Times

X			
X			
X			
X			
X			
X			

Analytical Sensitivity and Blanks

Method Blank Detections
Trip Blank Detections

X			None.
	X		Methylene chloride was detected at a J flag concentration.

Accuracy

ICV/CCV

	X		The CCV was above the upper control limit for Trichlorofluoromethane; the associated LCS passed using CCV criteria so the data was reported.
--	---	--	--

LCS/LCSD

X			
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MS/MSD

Surrogates (organics only)

X			
X			

Precision

QA/QC Sample RPDs

X			
	X		MW-20 and duplicate sample MW-D had <50% RPD for analyzed constituents, with the exceptions of benzene (96%), chlorobenzene (173%), cis-1,2-dichloroethene (60%), and zinc (113%). Although there were multiple differences between the original and duplicate samples, both samples had low measured concentrations that did not impact statistical conclusions so the data was accepted as valid.

Field Duplicates

Appendix C

Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry
Henry County Sanitary Landfill - 44-SDP-01-75

	Sample Date	MW-10 UPG	MW-4 DNG	MW-6 DNG	MW-8 DNG	MW-13 DNG	MW-15 DNG	MW-16R DNG	MW-18 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	MW-22 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	MW-31 DNG	MW-32 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG	MW-37 DNG	SW-3 DNG	
Total Metals Constituents	Antimony, mg/L (CAS NO - 7440-36-0)																												
	8/8/2017	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/13/2018	0.00012	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	6/30/2019	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/22/2020	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/22/2020	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/26/2021	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A	< 0.002	< 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	
	7/26/2021	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A	0.000184*	< 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
	4/19/2022	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A
9/19/2023	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	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	N/A	N/A	N/A	N/A	N/A	
9/19/2023	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	
Arsenic, mg/L (CAS NO - 7440-38-2)	8/8/2017	< 0.004	0.000709	0.00115	< 0.002	N/A	< 0.004	N/A	N/A	0.00189	0.00101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/13/2018	< 0.002	< 0.002	0.000522	< 0.002	N/A	< 0.002	N/A	N/A	0.00413	0.000674	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	6/30/2019	0.0485	0.0485	0.0985	0.0269	N/A	0.0469	N/A	N/A	0.00995	0.000113	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/22/2020	< 0.002	< 0.002	0.00117*	< 0.002	N/A	< 0.002	N/A	N/A	0.00113*	< 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	
	4/22/2020	< 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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	< 0.002	0.000891*	0.00134*	< 0.002	N/A	< 0.002	N/A	N/A	0.00223	0.000799*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	< 0.002	< 0.002	0.0022	< 0.002	N/A	< 0.002	N/A	N/A	0.00063	0.00082*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00247	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	9/19/2023	< 0.002	0.000757*	0.00301	< 0.002	N/A	< 0.002	< 0.002	N/A	N/A	0.000889*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00119*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Barium, mg/L (CAS NO - 7440-39-3)	8/8/2017	0.0483	0.0598	0.0555	0.0249	N/A	0.0361	N/A	N/A	0.492	0.0563	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/13/2018	0.0473	0.0444	0.0729	0.0218	N/A	0.0296	N/A	N/A	0.435	0.0421	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	6/30/2019	0.0485	0.0485	0.0985	0.0269	N/A	0.0469	N/A	N/A	0.399	0.0486	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/22/2020	0.0452	0.055	0.18	0.0268	N/A	0.0627	N/A	N/A	0.486	0.0459	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/22/2020	0.0465	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	0.0449	0.0558	0.0980	0.0236	N/A	0.0603	N/A	N/A	0.417	0.0380	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	N/A	N/A	N/A	N/A	N/A	0.0591	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	0.0487	0.0638	0.0978	0.0217	N/A	0.0653	N/A	N/A	0.425	0.0468	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.415	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	9/19/2023	0.0407	0.0727	0.0985	0.0194	N/A	0.0356	N/A	N/A	N/A	0.464	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0755	N/A	N/A	N/A	N/A	N/A	N/A	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)	8/8/2017	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/13/2018	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	6/30/2019	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/22/2020	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/22/2020	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.01	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	9/19/2023	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Cadmium, mg/L (CAS NO - 7440-43-9)	8/8/2017	< 0.0005	0.000077	0.000077	0.000073	N/A	< 0.0005	N/A	N/A	< 0.0005	0.000207	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/13/2018	< 0.0005	< 0.0005	0.000051	< 0.0005	N/A	< 0.0005	N/A	N/A	< 0.0005	0.000118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	6/30/2019	< 0.0005	< 0.0005	< 0.0005	0.000090	N/A	< 0.0005	N/A	N/A	< 0.0005	< 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	
	4/22/2020	< 0.0005	0.000112*	< 0.0005	< 0.0005	N/A	< 0.0005	N/A	N/A	< 0.0005	< 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	
	4/22/2020	< 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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	< 0.0001	0.000091*	< 0.0001	< 0.0001	N/A	< 0.0001	N/A	N/A	0.000082*	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	< 0.0001	0.000075*	< 0.0001	< 0.0001	N/A	< 0.0001	N/A	N/A	0.000509	< 0.000																		

Appendix C - Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry
Henry County Sanitary Landfill - 44-SDP-01-75

	Sample Date	MW-10 UPG	MW-4 DNG	MW-6 DNG	MW-8 DNG	MW-13 DNG	MW-15 DNG	MW-16R DNG	MW-18 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	MW-22 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	MW-31 DNG	MW-32 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG	MW-37 DNG	SW-3 DNG
Total Metals Constituents	5/21/2015	119.6	18.8	250	16.5	139.1	9117	N/A	48.9	76.3	8.3	60.9	974.6	178.2	20.9	366.5	600	30.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)	10/12/2015	32.0	8.7	50.8	9.8	82.4	58.9	1596.1	26.9	35.7	11.2	18.3	134	56.9	21.7	340.5	190.1	24.5	18.2	124.1	151.3	812.8	N/A	N/A	N/A	N/A	N/A	N/A
	5/17/2016	45.6	81.6	212.5	13.7	17	5960	2970.4	30.5	36.7	18	86.4	207.1	358.1	31.4	2217.4	3283.3	179.7	30.5	120	14154.5	1636	N/A	N/A	N/A	N/A	N/A	N/A
	6/2/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.1	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	N/A
	9/28/2016	24.3	28.4	76.3	18.4	90.7	4563.6	1795.2	1456.5	36.3	6.9	18.3	65.5	289.7	40.6	1627.3	5374.2	27.2	13.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/8/2017	< 1.88	0.75	26.9	0.75	N/A	2.75	N/A	N/A	13.8	8.5	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	N/A	N/A	N/A
	3/13/2018	1.13	2.5	5.13	< 1.88	N/A	26.2	N/A	N/A	18.7	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/30/2019	< 1.88	6.25	8.08	< 1.88	N/A	24	N/A	N/A	27.3	9.6	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	N/A	N/A	N/A	N/A
	4/22/2020	< 1.88	1.13*	18	< 1.88	N/A	3.13	N/A	N/A	41	7.88	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
	4/22/2020	< 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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/26/2021	1.5*	5.75	26.3	1*	N/A	24.8	N/A	N/A	44.9	17.6	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	N/A	N/A	N/A	N/A
	7/26/2021	N/A	N/A	N/A	N/A	N/A	32.1	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	N/A	N/A	N/A
	4/19/2022	2.13	10.9	42	1.25*	N/A	31.9	N/A	N/A	46	15.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2023	< 1.88	2.13	123	1.25*	N/A	23.5	N/A	N/A	N/A	14.5	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	N/A	N/A	N/A
	9/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.8	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	N/A	N/A	N/A	N/A

Note: * Indicates 'Flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

Appendix C - Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-10 UPG	MW-4 DNG	DWG	MW-6 DNG	MW-8 DNG	MW-13 DNG	MW-15 DNG	MW-16R DNG	MW-18 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	MW-22 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	MW-31 DNG	MW-32 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG	MW-37 DNG	SW-3 DNG	
Benzene, ug/L (CAS NO - 71-43-2)	3/4/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.301*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.5	N/A	N/A	N/A	N/A	N/A
	7/26/2021	<0.5	<0.5	0.35*	<0.5	3.06	<0.5	<0.5	N/A	N/A	4.61	0.277*	0.899	<0.5	0.697	1.65	<0.5	<0.5	0.661	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	
	7/26/2021	N/A	N/A	N/A	N/A	N/A	<0.5	<0.5	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	N/A	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	4/19/2022	<0.5	<0.5	<0.5	<0.5	2.07	<0.5	<0.5	N/A	N/A	4.73	<0.5	0.899	<0.5	0.697	1.65	<0.5	<0.5	0.661	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	
	4/19/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.95	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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	7/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.699	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.5	N/A	N/A	N/A	N/A	N/A
	7/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.5	N/A	N/A	N/A	N/A	N/A
	3/15/2023	N/A	<0.5	0.46	<0.5	2.32	<0.5	<0.5	N/A	N/A	N/A	N/A	N/A	0.288*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.5	N/A	N/A	N/A	N/A	N/A
	9/19/2023	<0.5	<0.5	0.46	<0.5	2.32	<0.5	<0.5	N/A	N/A	N/A	N/A	N/A	0.288*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	9/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
Bromochloromethane, ug/L (CAS NO - 74-97-5)	8/8/2017	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	3/13/2018	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	6/30/2019	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	4/22/2020	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	4/22/2020	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/26/2021	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	7/26/2021	N/A	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	N/A	N/A	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	4/19/2022	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	4/19/2022	N/A	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	9/19/2023	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
9/19/2023	N/A	N/A	N/A	N/A	N/A	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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	8/8/2017	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	<1	<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
	3/13/2018	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	<1	<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
	6/30/2019	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	<1	<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
	4/22/2020	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	<1	<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
	4/22/2020	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/26/2021	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	<1	<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
	7/26/2021	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	4/19/2022	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	<1	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	4/19/2022	N/A	<1	<1	<1	<1	N/A	<1	N/A	N/A	<1	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	9/19/2023	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	<1	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
9/19/2023	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	N/A	N/A	N/A	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	
Bromoform, ug/L (CAS NO - 75-25-2)	8/8/2017	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	3/13/2018	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	6/30/2019	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	4/22/2020	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	4/22/2020	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/26/2021	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A
	7/26/2021	N/A	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	N/A	N/A	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	4/19/2022	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	4/19/2022	N/A	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	9/19/2023	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
9/19/2023	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	N/A	N/A	N/A	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	
Bromomethane, ug/L (CAS NO - 74-83-9)	8/8/2017	0.269	<4	0.297	0.354	0.256	N/A	<4	0.244	N/A	<4	0.244	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/13/2018	<4	0.428	0.346	0.25	N/A	<4	<4	N/A	N/A	<4	0.229	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/30/2019	<4	<4	<4	0.32	N/A	<4	<4	N/A	N/A	<4	<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
	4/22/2020	<4	<4	<4	<4	N/A	<4	<4	N/A	N/A	<4	<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
	4/22/2020	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/26/2021	<4	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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
	7/26/2021	N/A	N/A	N/A	N/A	N/A	N/A	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	4/19/2022	<4	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	4/19/2022	N/A	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
	9/19/2023	<4	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A
9/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	<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	<0.5	<0.5	<0.5	<0.5	<0.5	N/A	
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	8/8/2017	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	0.283	<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
	3/13/2018																													

Appendix C - Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry
Henry County Sanitary Landfill - 44-SDP-01-75

	Sample Date	MW-10 UPG	MW-4 DNG	MW-6 DNG	MW-8 DNG	MW-13 DNG	MW-15 DNG	MW-16R DNG	MW-18 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	MW-22 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	MW-31 DNG	MW-32 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG	MW-37 DNG	SW-3 DNG		
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	1/31/2009	N/A	N/A	N/A	N/A	291	N/A	N/A	4710	1.46	4.58	149	N/A	26.9	1180	N/A	N/A	282	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	5/21/2009	N/A	N/A	N/A	N/A	890	N/A	N/A	5280	1.01	3.81	372	<1	17.1	1510	<1	1.09	228	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/28/2009	<1	<1	5.53	<1	1310	N/A	N/A	4530	1.3	1.68	111	<1	13.5	1250	2.99	<1	80.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/21/2010	N/A	N/A	N/A	N/A	1000	N/A	N/A	5180	N/A	N/A	140	N/A	N/A	1490	N/A	N/A	142	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	
	10/22/2010	<1	<1	2.44	<1	944	<1	N/A	4330	1.54	3.05	74.1	<1	16.2	1350	1.79	<1	93.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	5/19/2011	N/A	N/A	N/A	N/A	1480	N/A	N/A	4950	N/A	N/A	N/A	N/A	N/A	912	N/A	N/A	96.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	
	6/16/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	163	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/16/2011	N/A	N/A	N/A	N/A	5550	N/A	N/A	4530	N/A	N/A	122	N/A	N/A	1150	N/A	N/A	263	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/16/2011	N/A	N/A	N/A	N/A	1720	N/A	N/A	4530	N/A	N/A	123	N/A	N/A	1150	N/A	N/A	263	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/23/2012	N/A	N/A	N/A	N/A	1720	N/A	N/A	4530	N/A	N/A	123	N/A	N/A	1150	N/A	N/A	263	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/10/2012	<1	<1	1.75	<1	1340	<1	N/A	5100	1.77	4.39	95.2	<1	12.2	1050	2.34	<1	348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	
	4/29/2013	N/A	N/A	N/A	N/A	1240	N/A	N/A	4610	N/A	N/A	115	N/A	N/A	990	N/A	N/A	477	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	
	10/16/2013	<1	<1	3.09	<1	679	<1	N/A	3970	1.14	5.95	93.7	0.824	15.2	986	3.7	0.303	105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/22/2014	N/A	N/A	N/A	N/A	878	N/A	N/A	5550	N/A	N/A	123	N/A	N/A	1100	N/A	N/A	281	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	10/21/2014	<1	<1	3.2	<1	371	<1	N/A	4190	0.954	5.92	125	0.797	16.3	832	2.97	<1	287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/21/2015		N/A	N/A	N/A	N/A	968	N/A	N/A	5720	N/A	N/A	178	N/A	N/A	981	N/A	N/A	245	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/12/2015		<1	<1	3.15	<1	1070	<1	<1	4140	1.02	5.88	181	<1	16.2	898	4.52	<1	89.3	<1	40.2	0.357	2.68	N/A	N/A	N/A	N/A	N/A	N/A		
5/17/2016		N/A	N/A	N/A	N/A	514	N/A	0.215	4000	N/A	N/A	197	N/A	N/A	858	4.18	N/A	118	<1	12.5	0.353	1.18	N/A	N/A	N/A	N/A	N/A	0.145	0.448	
6/2/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	3410	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/28/2016		<1	<1	8.8	<1	812	<1	<1	172	0.740	4.48	222	<1	11.7	866	8.82	<1	281	<1	22.8	0.432	0.815	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/6/2017		<1	<1	4.37	<1	652	<1	<1	280	0.785	0.855	174	<1	13	804	1.87	<1	912	0.683	24.9	0.406	<5	<1	<1	<1	<1	<1	<1	N/A	
3/13/2018		<1	<1	2.98	<1	951	0.458	0.219	126	0.48	1.5	226	<1	N/A	977	4.55	<1	590	<1	28.9	0.484	0.408	<1	<1	<1	<1	<1	<1	N/A	
8/3/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	595	N/A	N/A	247	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019		N/A	N/A	N/A	N/A	N/A	N/A	N/A	55.2	N/A	N/A	192	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/30/2019		<1	<1	5.44	<1	491	<1	<1	1.2	12.1	0.449	0.519	154	N/A	15.1	709	8.91	<1	302	<5	27.4	0.823	0.579	<1	<1	<1	<1	<1	N/A	
4/22/2020		<1	<1	8.26	<1	148	<1	<1	N/A	0.459*	0.216*	160	0.309*	0.51	144.5	0.216*	14.5	0.443*	<1	0.215*	14.4	0.716*	0.443*	<1	<1	<1	<1	<1	N/A	
4/22/2020		<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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/19/2020		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	121	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/4/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47.5	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	N/A	N/A	N/A
7/26/2021	<1	<1	5.78	<1	1280	<1	<1	N/A	0.341*	0.219*	210	<1	24.2	573	19.2	<1	185	<1	97.4	0.786*	0.485*	<1	<1	<1	<1	<1	<1	<1	N/A	
7/26/2021	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/19/2022	<1	<1	2.97	<1	890	<1	<1	N/A	0.344*	<1	87.2	<1	25.4	482	6.94	0.217*	50.4	<1	97.4	23.4	0.415*	<1	<1	<1	<1	<1	<1	<1	N/A	
4/19/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.21*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/28/2022	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/28/2022	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/15/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/19/2023	<1	<1	4.25	<1	1220	<1	<1	N/A	N/A	1.38	94.3	<1	42	568	8.24	<1	200	0.574*	95.5	21.8	0.442*	<1	<1	<1	1.02	<1	<1	<1	N/A	
9/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Ethylbenzene, ug/L (CAS NO - 100-41-4)	8/8/2017	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A	
	3/13/2018	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A	
	6/30/2019	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A	
	4/22/2020	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A	
	4/22/2020	<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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A	
	7/26/2021	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	<5	<5	<5	<5	N/A	<5	N/A	N/A	<5	<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	N/A	N/A	N/A	N/A	
	4/19/2022	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/202																													

SCS ENGINEERS

Summary of Groundwater Chemistry
Henry County Sanitary Landfill - 44-SDP-01-75

Appendix I VOC Constituents	Sample Date	MW-10 UPG	MW-4 DNG	MW-6 DNG	MW-8 DNG	MW-13 DNG	MW-15 DNG	MW-16R DNG	MW-18 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	MW-22 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	MW-31 DNG	MW-32 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG	MW-37 DNG	SW-3 DNG		
Methylene Chloride, ug/L (CAS NO - 75-09-2)	10/1/2001	<5	5	<5	N/A	<5	N/A	N/A	6.2	<5	<5	<5	<5	5	18.4	<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	
	1/1/2002	N/A	<5	N/A	<5	N/A	<5	N/A	N/A	6.6	<5	<5	<5	<5	10.7	17.4	<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	
	4/1/2002	N/A	<5	N/A	<5	N/A	<5	N/A	N/A	9.2	<5	<5	<5	<5	N/A	11.2	15.6	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/1/2002	N/A	<5	N/A	<5	N/A	<5	N/A	N/A	9.5	<5	<5	<5	<5	9.5	12.2	<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	
	10/1/2002	<5	5	<5	N/A	<5	N/A	N/A	9.5	<5	<5	<5	<5	<5	9.5	12.2	<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	
	11/1/2002	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1/2/2003	N/A	N/A	<5	N/A	<5	N/A	<5	N/A	9.4	<5	<5	<5	<5	6.5	15.6	<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	
	4/1/2003	N/A	N/A	<5	N/A	<5	N/A	<5	N/A	8.3	<5	<5	<5	<5	<5	18.4	<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	
	7/1/2003	N/A	<5	N/A	<5	N/A	<5	N/A	<5	10.5	<5	<5	<5	<5	N/A	12.9	<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	
	10/1/2003	<5	5	<5	N/A	<5	N/A	<5	N/A	8	<5	<5	<5	<5	<5	11.4	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	
	1/1/2004	N/A	N/A	<5	N/A	N/A	N/A	N/A	8.3	<5	<5	<5	<5	N/A	<5	12.2	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	
	4/1/2004	N/A	N/A	<5	N/A	<5	N/A	<5	N/A	5.4	<5	<5	<5	<5	<5	9.8	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	
	7/1/2004	N/A	N/A	<5	N/A	<5	N/A	<5	N/A	7.8	<5	<5	<5	<5	N/A	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/1/2004	<5	5	<5	N/A	<5	N/A	<5	N/A	7.8	<5	<5	<5	<5	<5	7.8	<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	
	1/1/2005	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	<5	<5	<5	<5	<5	N/A	<5	9.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/1/2005	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	5.9	<5	<5	<5	N/A	<5	6.6	<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
	7/1/2005	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	5.8	<5	<5	<5	N/A	<5	9.8	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	N/A
	10/1/2005	<5	5	<5	N/A	<5	N/A	<5	N/A	<5	<5	<25	<5	<5	<5	6.5	<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	
	1/1/2006	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	8.4	<5	<5	<5	<5	N/A	<5	7.8	<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
	4/1/2006	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	7.7	<5	<5	<5	N/A	<5	7.2	<5	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
	7/1/2006	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	6.9	<5	<5	<5	N/A	<5	8.8	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
	10/1/2006	<5	5	<5	N/A	<5	N/A	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1/10/2007	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	8.48	<5	<5	<5	<5	N/A	<5	5.9	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
	4/18/2007	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	6.07	<5	<5	<5	<5	<5	7.7	<5	<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
	7/25/2007	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	5.25	<5	<25	<5	N/A	<5	8.49	<5	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
	10/24/2007	<5	<5	<5	<5	<5	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	
	1/16/2008	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	7.07	<5	<5	<5	N/A	<5	6.36	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
	4/23/2008	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	5.97	<5	<5	<5	<5	<5	5.62	<5	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/31/2008	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	<1000	<10	<10	<10	<10	<10	<50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2008	<5	<5	<5	<5	<5	<5	N/A	<5	<100	<5	<5	<5	<5	<5	<50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1/31/2009	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	<100	<5	<5	<5	N/A	<5	<50	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
	5/21/2009	N/A	N/A	N/A	N/A	<25	N/A	<25	N/A	<500	<5	<5	<5	<5	<5	<50	<5	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2009	<5	<5	<5	<5	<5	<25	<5	N/A	<500	<5	<5	<5	<5	<5	<50	<5	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	
	4/21/2010	N/A	N/A	N/A	N/A	<50	N/A	<50	N/A	<500	N/A	N/A	<5	N/A	N/A	<50	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
	10/22/2010	<5	<5	<5	<5	<5	<5	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	5/19/2011	N/A	N/A	N/A	N/A	<25	N/A	<25	N/A	<50	N/A	N/A	<5	N/A	N/A	<50	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	<5
	6/16/2011	N/A	N/A	N/A	N/A	<5	N/A	<5	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	N/A	N/A	N/A	N/A
	10/25/2011	<5	<5	<5	<5	<5	<5	<5	N/A	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	6/23/2012	N/A	N/A	N/A	N/A	<50	N/A	<50	N/A	<250	N/A	N/A	<5	N/A	N/A	<50	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	<5
	10/10/2012	<5	<5	<5	<5	<5	<5	<5	N/A	<125	<5	<5	<5	<5	<5	<50	<5	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/29/2013	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	<5	<5	<5	<5	<5	N/A	<5	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5		
10/16/2013	<5	0.292	0.292	<5	<5	<5	<5	N/A	1.42	<5	<5	<5	<5	<5	1.95	<5	<5	0.258	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
4/22/2014	N/A	N/A	N/A	N/A	<50	N/A	<50	N/A	<5	N/A	<5	<5	<5	N/A	<5	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5		
10/21/2014	<5	<5	<5	<5	0.242	<5	<5	N/A	1.68	<5	0.22	<5	<5	<5	0.723	<5	<5	0.402	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
5/21/2015	N/A	N/A	N/A	N/A	0.454	N/A	0.454	N/A	1.34	N/A	N/A	<5	N/A	N/A	0.69	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		
10/12/2015	<5	<5	<5	<5	<5	<5	<5	<5	1.93	<5	<5	<5	<5	0.271	1.69	<5	0.525	<5	<5	0.326	0.283	0.489	N/A	N/A	N/A	N/A	N/A	N/A		
5/1/2016	N/A	N/A	N/A	N/A	2.41	<5	<5	N/A	<5	1.72	N/A	N/A	0.234	N/A	<5	<5	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5		
6/2/2016	N/A	N																												

Appendix C - Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry
Henry County Sanitary Landfill - 44-SDP-01-75

Appendix I VOC Constituents	Sample Date	MW-10 UPG	MW-4 DNG	MW-6 DNG	MW-8 DNG	MW-13 DNG	MW-15 DNG	MW-16R DNG	MW-18 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	MW-22 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	MW-31 DNG	MW-32 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG	MW-37 DNG	SW-3 DNG	
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	7/12/1999	N/A	N/A	<1	N/A	1.5	N/A	N/A	5.9	<1	<1	<1	<1	<1	18.1	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	<1
	10/1/1999	<1	<1	<1	N/A	1.5	<1	N/A	2.8	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	1/2/2000	N/A	N/A	<1	N/A	1.5	<1	N/A	2.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	4/2/2000	N/A	N/A	<1	N/A	1.4	N/A	N/A	2.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7/1/2000	N/A	N/A	<1	N/A	1.6	N/A	N/A	N/A	2.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/1/2000	<1	<1	<1	N/A	15.8	N/A	N/A	N/A	9.8	<1	<1	<1	<1	<1	1.7	11.2	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	
1/1/2001	N/A	N/A	N/A	N/A	3.3	N/A	N/A	N/A	2.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/1/2001	N/A	N/A	<1	N/A	29.6	N/A	N/A	N/A	26.2	<1	<1	<1	<1	<1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7/2/2001	N/A	N/A	<1	N/A	1.7	N/A	N/A	N/A	1.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/1/2001	<1	<1	<1	N/A	1.5	N/A	N/A	N/A	7.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1/1/2002	N/A	N/A	<1	N/A	1.6	N/A	N/A	N/A	5.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/1/2002	N/A	N/A	<1	N/A	1.8	N/A	N/A	N/A	8.3	<1	<10	1.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7/1/2002	N/A	N/A	<1	N/A	3.1	N/A	N/A	N/A	108	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/1/2002	<1	<1	<1	N/A	15.2	N/A	N/A	N/A	138	<1	<1	8.8	<1	<1	1.9	37.5	<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
11/1/2002	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1/1/2003	N/A	N/A	<1	N/A	1.9	N/A	N/A	N/A	15.6	<1	<1	1.3	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/1/2003	N/A	N/A	<1	N/A	2.2	N/A	N/A	N/A	9.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7/1/2003	N/A	N/A	<1	N/A	2.1	N/A	N/A	N/A	7.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/1/2003	<1	<1	<1	N/A	2.6	<1	N/A	N/A	27.8	<1	<1	2.1	<1	<1	1.1	18.7	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1
1/1/2004	N/A	N/A	<1	N/A	1.8	<1	<1	<1	1.3	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/1/2004	N/A	N/A	<1	N/A	2.2	N/A	N/A	N/A	13.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7/1/2004	N/A	N/A	<1	N/A	2.2	N/A	N/A	N/A	54.5	<1	<1	1.1	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/1/2004	<1	<1	<1	N/A	3	N/A	N/A	N/A	37	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1/1/2005	N/A	N/A	N/A	N/A	2.6	N/A	N/A	N/A	11.8	<1	<1	1.2	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/1/2005	N/A	N/A	N/A	N/A	1.1	N/A	N/A	N/A	1.1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7/1/2005	N/A	N/A	N/A	N/A	2.6	N/A	N/A	N/A	24.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/1/2005	<1	<1	<1	N/A	2.6	N/A	N/A	N/A	14.2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1/1/2006	N/A	N/A	N/A	N/A	2.5	N/A	N/A	N/A	6.9	<1	<1	2.2	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/1/2006	N/A	N/A	N/A	N/A	2.7	N/A	N/A	N/A	9.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7/1/2006	N/A	N/A	N/A	N/A	1.1	N/A	N/A	N/A	2.6	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/1/2006	<1	<1	<1	N/A	3.8	<1	<1	<1	2.6	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1/10/2007	N/A	N/A	N/A	N/A	2.63	N/A	N/A	N/A	18.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/18/2007	N/A	N/A	N/A	N/A	5.73	N/A	N/A	N/A	46.7	<1	<1	2.36	<1	<1	1.05	19.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7/25/2007	N/A	N/A	N/A	N/A	3.16	N/A	N/A	N/A	9.67	<1	<5	1.77	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/24/2007	<1	<1	<1	<1	<1	<1	<1	N/A	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/24/2007	N/A	N/A	N/A	N/A	1.74	N/A	N/A	N/A	1.74	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1/16/2008	N/A	N/A	N/A	N/A	3.23	N/A	N/A	N/A	5.99	<1	<1	1.26	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/23/2008	N/A	N/A	N/A	N/A	5.99	N/A	N/A	N/A	17.1	<1	<1	1.19	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7/31/2008	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	<100	<1	<1	1.21	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/31/2008	<1	<1	<1	<1	3.68	<1	N/A	<1	<1	<1	<1	1.32	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1/31/2009	N/A	N/A	N/A	N/A	2.49	N/A	N/A	N/A	<100	<1	<1	1.58	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
5/21/2009	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	<100	<1	<1	1.2	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/28/2009	<1	<1	<1	<1	<5	<1	N/A	<100	<1	<1	<1	1.41	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/21/2010	N/A	N/A	N/A	N/A	<10	N/A	N/A	<100	N/A	N/A	N/A	1.47	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/22/2010	<1	<1	<1	<1	3.51	<1	N/A	<1	42.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
5/19/2011	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	10.9	N/A	N/A	N/A	N/A	<10	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
6/16/2011	N/A	N/A	N/A	N/A	<10	N/A	N/A	N/A	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/25/2011	<1	<1	<1	<1	3.8	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
6/23/2012	N/A	N/A	N/A	N/A	<10	N/A	N/A	<50	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/10/2012	<1	<1	<1	<1	5.45	<1	N/A	57.8	<1	<1	<1	1.02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4/29/2013	N/A	N/A	N/A	N/A	4.07	N/A	N/A	65.5	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
10/16/2013	<1	<1	<1	<1	3.86	<1	N/A	1.7																					

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Summary of Groundwater Chemistry
Henry County Sanitary Landfill - 44-SDP-01-75

Appendix I VOC Constituents	Sample Date	MW-10 UPG	MW-4 DNG	MW-6 DNG	MW-8 DNG	MW-13 DNG	MW-15 DNG	MW-16R DNG	MW-18 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	MW-22 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	MW-31 DNG	MW-32 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG	MW-37 DNG	SW-3 DNG
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	9/19/2023	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethene, ug/L (CAS NO - 79-01-6)	9/19/2023	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/1992	N/A	< 1	< 1	N/A	17	< 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	N/A	N/A	N/A
	3/1/1993	N/A	< 1	< 1	N/A	12	< 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	N/A	N/A	N/A
	5/1/1993	N/A	< 1	< 1	N/A	16	< 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	N/A	N/A	< 1
	7/1/1993	N/A	< 1	< 1	N/A	15	< 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	N/A	N/A	< 1
	11/1/1993	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/1/1994	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/1994	N/A	N/A	N/A	N/A	14	N/A	N/A	247	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/1/1995	N/A	N/A	2.5	N/A	15	N/A	N/A	303	< 10	< 1	21.6	< 1	10.4	36.5	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
	10/1/1995	N/A	N/A	13.4	N/A	1	N/A	N/A	385	< 1	< 1	30.5	< 1	7.9	42.2	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
	5/1/1996	N/A	N/A	6.7	N/A	12	< 1	N/A	753	11	< 1	21.4	< 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	< 1
	8/1/1996	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	35.3	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
	10/1/1996	N/A	N/A	N/A	N/A	11	N/A	N/A	234	< 1	< 1	23.2	N/A	10.2	35.8	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
	4/1/1997	N/A	N/A	6.6	N/A	15	N/A	N/A	532	< 1	< 1	23.2	< 1	9.2	74.6	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
	10/1/1997	N/A	N/A	4.3	N/A	16	N/A	N/A	621	7.8	2	16.9	< 1	6.1	36.4	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
	11/1/1997	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	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/1/1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.2	50.3	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
	2/1/1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.2	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/1/1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.8	54.3	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
	4/1/1998	N/A	N/A	2.7	N/A	12	N/A	N/A	862	< 1	1.3	27	< 1	10.4	61.6	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
	5/1/1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.6	51.3	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
	6/1/1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.7	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
	7/1/1998	< 1	N/A	1.5	N/A	15	N/A	N/A	580	< 1	1.4	28.8	< 1	9	63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/1/1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.2	54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/1998	N/A	N/A	1.1	N/A	28	N/A	N/A	832	< 1	1.7	22.9	< 1	9	51.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/1/1999	N/A	N/A	4.8	N/A	19	N/A	N/A	1040	< 1	1.4	23.3	< 1	8.8	26.6	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
	1/1/1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48.1	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
	4/1/1999	N/A	N/A	4.9	N/A	27	N/A	N/A	694	< 1	1.1	22.6	< 1	7.6	62.4	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
	1/1/1999	N/A	N/A	10.1	N/A	13	N/A	N/A	827	< 1	< 1	25.3	< 1	8.4	51.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/1/1999	< 1	< 1	8.7	N/A	39	< 1	< 1	N/A	< 1	1.8	27.6	< 1	6.6	41	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
	1/1/2000	N/A	N/A	4	N/A	17	N/A	N/A	760	< 1	1.3	< 1	27.3	< 1	6.5	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
	4/1/2000	N/A	N/A	4	N/A	34	N/A	N/A	867	< 1	1.3	22.3	< 1	7.9	58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/1/2000	N/A	N/A	4.6	N/A	20	N/A	N/A	1010	< 1	1.2	27.9	< 1	8.4	66.7	< 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
	10/1/2000	< 1	< 1	2.4	N/A	13	N/A	N/A	740	< 1	1.3	36.4	< 1	7.6	53.5	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	1/1/2001	N/A	N/A	1.7	N/A	27	N/A	N/A	777	< 1	1.3	27.7	< 1	7.4	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
	4/1/2001	N/A	N/A	< 1	N/A	31	N/A	N/A	1140	< 1	1.3	26.2	< 1	7.6	55.2	< 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
	7/1/2001	N/A	N/A	2.6	N/A	21	N/A	N/A	1660	< 1	1	30.9	< 1	7.3	61.4	< 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
	10/1/2001	< 1	< 1	1	N/A	22	N/A	N/A	2180	< 1	1.1	33.5	< 1	6.5	55.9	< 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
	1/1/2002	N/A	N/A	1.8	N/A	20	N/A	N/A	1840	< 1	1.6	30.6	< 1	7.2	60.1	< 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
	4/1/2002	N/A	N/A	< 1	N/A	28	N/A	N/A	2020	< 1	1.2	32.5	< 1	7.4	2.2	< 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
	7/1/2002	N/A	N/A	< 1	N/A	25	N/A	N/A	1500	< 1	1.2	36.2	< 1	6.2	64.9	< 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
	10/1/2002	< 1	< 1	1.5	N/A	25	N/A	N/A	2770	< 1	1.2	44.7	< 1	7.1	56.2	< 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
	11/1/2002	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/1/2003	N/A	N/A	2.2	N/A	24	N/A	N/A	3020	< 1	1	40.1	N/A	8.5	66.3	< 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
	4/1/2003	N/A	N/A	1.1	N/A	21	N/A	N/A	2920	< 1	2	36.3	< 1	7	54.8	< 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
	7/1/2003	N/A	N/A	1.9	N/A	27	N/A	N/A	2540	< 1	1.1	43.8	< 1	7.3	66.8	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
	10/1/2003	< 1	< 1	< 1	N/A	31	N/A	N/A	2830	< 1	1.3	37.9	< 1	5.4	37.9	< 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
	1/1/2004	N/A	N/A	1.4	N/A	N/A	N/A	N/A	3540	< 1	< 1	36.9	N/A	3.9	55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/1/2004	N/A	N/A	< 1	N/A	27	N/A	N/A	3100	< 1	< 1	34.6	< 1	2.8	46.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/1/2004	N/A	N/A	1	N/A	24	N/A	N/A	2770	< 1	< 1	36.8	N/A	1.7	43.4	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
	10/1/2004	< 1	N/A	1.4	N/A	45	N/A	N/A	3100	< 1	< 1	36.7	< 1	2.1	43.4	< 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
	1/1/2005	N/A	N/A	N/A	N/A	27	N/A	N/A	2720	< 1	1.1	36.7	< 1	2.1	43.4	< 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
	4/1/2005	N/A	N/A	N/A	N/A	32	N/A	N/A	3180	3.6	1.5	36.9	N/A	1.2	35.9	< 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
	7/1/2005	N/A	N/A	N/A	N/A	28	N/A	N/A	3200	< 1	< 1	36.8	N/A	1.3	44.6	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
	10/1/2005	< 1	< 1	< 1	N/A	46	N/A	N/A	3130	< 1	< 1	40.4	< 1	1.4	39.8	< 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
	1/1/2006	N/A	N/A	N/A	N/A	27	N/A	N/A	3260	< 1	1	42	N/A	1.2	41.1	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
	4/1/2006	N/A	N/A	N/A	N/A	27	N/A	N/A	3230	< 1	1.8	42	N/A	1.1	39.8	< 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
	7/1/2006	N/A	N/A	N/A	N/A	27	N/A	N/A	2880	1.8	< 1	38.9	N/A	< 1	38.8													

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Summary of Groundwater Chemistry
Henry County Sanitary Landfill - 44-SDP-01-75

Appendix I VOC Constituents	Sample Date	MW-10 UPG	MW-4 DNG	MW-6 DNG	MW-8 DNG	MW-13 DNG	MW-15 DNG	MW-16R DNG	MW-18 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	MW-22 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	MW-31 DNG	MW-32 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG	MW-37 DNG	SW-3 DNG	
Trichloroethene, ug/L (CAS NO - 79-01-6)	7/26/2021	<1	<1	3.31	<1	26	<1	<1	N/A	<1	<1	9.55	<1	<1	17.4	2.96	<1	1.71	<1	5.46	<1	<1	<1	<1	<1	<1	<1	N/A	
	7/26/2021	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	<1	<1	3.29	<1	22	<1	<1	N/A	<1	<1	2.85	<1	<1	14.3	0.507	<1	0.553	<1	6.46	<1	<1	<1	<1	<1	<1	<1	N/A	
	4/19/2022	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/15/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	9/19/2023	<1	<1	1.62	<1	15.2	<1	<1	N/A	<1	<1	3.5	<1	<1	11	0.619	<1	1.36	<1	0.40	<1	<1	<1	<1	<1	<1	<1	N/A	
	9/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	<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
	8/8/2017	<4	<4	<4	<4	<4	<4	<4	N/A	<4	<4	<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
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	3/13/2018	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	
	6/30/2019	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	
	4/22/2020	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	
	4/22/2020	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	
	7/26/2021	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	
	7/26/2021	N/A	N/A	N/A	N/A	N/A	<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	N/A	N/A	N/A	
	4/19/2022	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	
	4/19/2022	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	<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	
	9/19/2023	<4	<4	<4	<4	N/A	<4	N/A	N/A	<4	<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	
	9/19/2023	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	<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	
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	8/8/2017	<10	<10	<10	<10	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/13/2018	<10	<10	<10	<10	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	6/30/2019	<10	<10	<10	<10	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/22/2020	<10	<10	<10	<10	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/22/2020	<10	<10	<10	<10	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	<10	<10	<10	<10	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/26/2021	N/A	N/A	N/A	N/A	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	<10	<10	<10	<10	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/19/2022	N/A	N/A	N/A	N/A	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	9/19/2023	<10	<10	<10	<10	N/A	<10	N/A	N/A	<10	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	9/19/2023	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/1/1992	N/A	<0.5	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/1/1993	N/A	<0.5	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	5/1/1993	N/A	<0.5	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/1/1993	N/A	<0.5	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	11/1/1993	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/1/1994	N/A	N/A	N/A	N/A	5	N/A	N/A	32	<10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/1/1994	N/A	N/A	N/A	N/A	7	N/A	N/A	61	<20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	5/1/1995	N/A	N/A	<0.5	N/A	5	N/A	N/A	62	<20	<2	4.9	<0.5	5	164	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/1/1995	N/A	N/A	<0.5	N/A	5	N/A	N/A	89	<10	<2	6.9	<0.5	3.5	389	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	5/1/1996	N/A	N/A	<0.5	N/A	<0.5	N/A	<0.5	88	<1	<10	<10	<10	<10	2	63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/1/1996	N/A	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	436	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/1/1996	N/A	N/A	N/A	N/A	4	N/A	N/A	72	<1	<1	5.6	N/A	2.6	195	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/1/1997	N/A	N/A	0.6	N/A	4	N/A	N/A	68	2.5	<1	4.9	<0.5	2.8	107	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/1/1997	N/A	N/A	1.6	N/A	6	N/A	N/A	113	9.4	3.2	5.9	<0.5	3.5	113	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	11/1/1997	N/A	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	203	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	12/1/1997	N/A	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	112	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2/1/1998	N/A	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	242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/1/1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.8	209	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/1/1998	N/A	N/A	<0.5	N/A	4	N/A	N/A	93	1	1.7	7.9	<0.5	4	262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	5/1/1998	N/A	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	169	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	6/1/1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.6</														

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Summary of Groundwater Chemistry
Henry County Sanitary Landfill - 44-SDP-01-75

Sample Date	MW-10 UPG	MW-4 DNG	MW-6 DNG	MW-8 DNG	MW-13 DNG	MW-15 DNG	MW-16R DNG	MW-18 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	MW-22 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	MW-31 DNG	MW-32 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG	MW-37 DNG	SW-3 DNG	
Appendix I VOC Constituents																												
Vinyl Chloride, ug/L (CAS NO - 75-01-4)																												
1/31/2009	N/A	N/A	N/A	N/A	16	N/A	N/A	159	<1	1.28	38.4	N/A	<1	53.5	N/A	N/A	106	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/21/2009	N/A	N/A	N/A	N/A	16	N/A	N/A	159	<1	1.09	50.1	<1	<1	156	<1	<1	105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/28/2009	<1	<1	<1	<1	71	<1	N/A	159	<1	1.59	48	<1	<1	148	<1	<1	105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/21/2010	N/A	N/A	N/A	N/A	79.8	N/A	N/A	172	N/A	N/A	102	N/A	N/A	214	N/A	N/A	115	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1
10/22/2010	<1	<1	<1	<1	73.6	<1	N/A	181	<1	1.75	58.8	<1	<1	109	<1	<1	98.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/19/2011	N/A	N/A	N/A	N/A	79.7	N/A	N/A	129	N/A	N/A	N/A	N/A	N/A	133	N/A	N/A	102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1
6/16/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	98.6	N/A	<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
10/16/2011	<1	<1	<1	<1	119	N/A	N/A	152	<1	2.72	55.5	<1	<1	175	<1	<1	127	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/23/2012	N/A	N/A	N/A	N/A	106	N/A	N/A	170	N/A	N/A	60.2	N/A	N/A	163	N/A	N/A	103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1
10/10/2012	<1	<1	<1	<1	90.4	<1	N/A	170	<1	2.04	55.6	<1	<1	148	<1	<1	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1
4/29/2013	N/A	N/A	N/A	N/A	85	N/A	N/A	223	N/A	N/A	70.7	N/A	N/A	127	N/A	N/A	71.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1
10/16/2013	<1	<1	<1	<1	41.7	<1	N/A	187	<1	1.69	55.8	<1	<1	60.2	0.176	0.138	29.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/22/2014	N/A	N/A	N/A	N/A	40.6	N/A	N/A	257	N/A	N/A	92.6	N/A	N/A	67.3	N/A	N/A	77.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1
10/21/2014	<1	<1	<1	<1	22.1	<1	N/A	205	<1	1.9	82.5	<1	<1	64.1	<1	<1	58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1
5/21/2015	N/A	N/A	N/A	N/A	32.2	N/A	N/A	159	N/A	N/A	98.1	N/A	N/A	80.5	N/A	N/A	35.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/12/2015	<1	<1	<1	<1	71.5	<1	2.38	118	<1	2.01	108	<1	<1	43.3	<1	<1	22.9	<1	13.8	<1	0.142	N/A	N/A	N/A	N/A	N/A	N/A	
5/17/2016	N/A	N/A	N/A	N/A	24.7	N/A	0.156	290	N/A	N/A	112	N/A	N/A	48	<1	N/A	28.1	<1	0.262	<1	<1	N/A	N/A	N/A	N/A	N/A	<1	<1
6/2/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	204	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/28/2016	<1	<1	<1	<1	34.3	<1	<1	346	<1	2.27	108	<1	0.116	128	<1	<1	37.3	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A	<1	
8/6/2017	<1	<1	0.279	<1	31.4	<1	<1	51.1	<1	0.248	99.2	<1	<1	132	<1	<1	43	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
3/13/2018	<1	<1	<1	<1	60.4	<1	<1	75	<1	0.385	121	<1	N/A	91.5	<1	<1	55.8	<1	<1	<1	0.135	18.9	<1	<1	<1	<1	N/A	
8/3/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48.4	N/A	N/A	129	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<10	N/A	N/A	93.3	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	N/A	N/A	
6/30/2019	<1	<1	0.227	<1	23.8	<1	<1	139	<1	<1	51.6	N/A	0.918	78.6	<1	0.361	23.6	<1	<1	<1	<1	<1	13.4	<1	N/A	<1	<1	
4/22/2020	<1	<1	<1	<1	47.4	<1	<1	N/A	<1	<1	88.9	<1	0.678*	73.4	<1	0.353*	11.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	
4/22/2020	<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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/19/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	113	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/4/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	62.5	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	N/A	N/A	
7/26/2021	<1	<1	<1	<1	67.4	<1	<1	N/A	<1	<1	80.2	<1	2.17	90.6	12.2	0.628*	13.4	<1	1.11	<1	26.6	<1	<1	<1	<1	<1	N/A	
7/26/2021	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/19/2022	<1	<1	<1	<1	61.1	<1	<1	N/A	<1	<1	18.1	<1	2.27	20.7	<1	0.551*	3.94	<1	<1	1.63	<1	26.6	<1	<1	<1	<1	N/A	
4/19/2022	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	75.5	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	N/A	N/A	
7/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	71.5	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	N/A	N/A	
3/15/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35.3	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	N/A	N/A	
9/19/2023	<1	<1	0.305*	<1	36.3	<1	<1	N/A	<1	<1	55.4	<1	4.3	63.9	<1	0.503*	7.9	<1	<1	1.76	<1	25.2	<1	<1	<1	<1	N/A	
9/19/2023	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Xylenes, total, ug/L (CAS NO - 1330-20-7)																												
8/8/2017	0.247	0.204	<3	<3	N/A	0.184	N/A	N/A	0.318	0.47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/13/2018	<3	<3	<3	<3	N/A	<3	N/A	N/A	0.17	0.153	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/30/2019	<3	<3	<3	<3	N/A	<3	N/A	N/A	<3	<3	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	N/A	
4/22/2020	<3	<3	<3	<3	N/A	<3	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	N/A	N/A	N/A	
4/22/2020	<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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/26/2021	<3	<3	<3	<3	N/A	<3	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	N/A	N/A	<3	
7/26/2021	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/19/2022	<3	<3	<3	<3	N/A	<3	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	N/A	N/A	N/A	
4/19/2022	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	
9/19/2023	<3	<3	<3	<3	N/A	<3	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	N/A	N/A	N/A	
9/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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 'I' 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

Leachate Levels

Appendix D
Leachate Levels

Date	LP-1			LP-2			LP-3		
	Leachate Level	Leachate Elevation	Leachate Thickness	Leachate Level	Leachate Elevation	Leachate Thickness	Leachate Level	Leachate Elevation	Leachate Thickness
4/1994	10.58	688.40	7.52	10.36	687.45	7.34	28.78	670.87	20.32
10/1994	10.80	688.18	7.30	10.65	687.16	7.05	28.12	671.53	20.98
5/2001	9.71	689.27	8.39	9.20	688.61	8.50	22.94	676.71	26.16
6/2001	9.69	689.29	8.41	9.19	688.62	8.51	22.86	676.79	26.24
7/2001	9.88	689.10	8.22	9.48	688.33	8.22	23.13	676.52	25.97
8/2001	9.93	689.05	8.17	9.52	688.29	8.18	23.16	676.49	25.94
10/2001	9.96	689.02	8.14	9.60	688.21	8.10	23.18	676.47	25.92
11/2001	9.99	688.99	8.11	9.69	688.12	8.01	23.15	676.50	25.95
12/2001	10.07	688.91	8.03	9.68	688.13	8.02	23.92	675.73	25.18
2/2002	10.62	688.36	7.48	10.24	687.57	7.46	23.51	676.14	25.59
3/2002	9.92	689.06	8.18	9.36	688.45	8.34	23.10	676.55	26.00
4/2002	10.33	688.65	7.77	9.88	687.93	7.82	23.42	676.23	25.68
10/2002	10.86	688.12	7.24	10.35	687.46	7.35	23.12	676.53	25.98
4/2003	10.74	688.24	7.36	10.33	687.49	7.38	23.13	676.52	25.97
10/2003	10.65	688.33	7.45	10.43	687.38	7.27	23.27	676.38	25.83
4/2004	10.02	688.96	8.08	9.64	688.17	8.06	22.56	677.09	26.54
10/2004	10.40	688.58	7.70	10.20	687.6]	7.50	22.93	676.72	26.17
4/2005	9.73	689.25	8.37	9.37	688.44	8.33	22.70	676.95	26.40
10/2005	10.25	688.73	7.85	10.00	687.81	7.70	23.25	676.40	25.85
4/2006	10.04	688.94	8.06	9.43	688.38	8.27	23.23	676.42	25.87
10/2006	10.32	688.66	7.78	9.96	687.85	7.74	22.78	676.87	26.32
4/2007	10.33	688.65	7.77	9.58	688.23	8.12	23.20	676.45	25.90
10/2007	10.39	688.59	7.71	9.62	688.19	8.08	22.79	676.86	26.31
4/2008	10.22	688.76	7.88	9.05	688.76	8.65	22.14	677.51	26.96
10/2008	9.99	688.99	8.11	9.68	688.13	8.02	22.25	677.40	26.85
Leachate levels from 11/2008 - 9/2012 unavailable.									
10/2012	9.81	689.17	8.29	8.93	688.88	8.77	20.30	679.25	28.80
4/2013	8.73	690.25	9.37	7.20	690.61	10.50	21.60	677.95	27.50
10/2013	9.26	689.72	8.84	7.80	690.01	9.90	19.76	679.79	29.34
4/2014	9.90	689.08	8.20	8.83	688.98	8.87	22.07	677.48	27.03
10/2014	9.28	689.70	8.82	8.03	689.78	9.67	20.90	678.65	28.20
5/2015	10.01	688.97	8.09	8.57	689.24	9.13	19.85	679.70	29.25
10/2015	9.27	689.71	8.83	7.95	689.86	9.75	19.03	680.52	30.07
6/2016	9.46	689.52	8.64	8.03	689.78	9.67	20.71	678.84	28.39
10/2016	9.39	689.59	8.71	8.29	689.52	9.41	19.11	680.44	29.99
8/2017	9.48	689.50	8.62	9.00	688.81	8.70	19.82	679.73	29.28
11/2017	9.80	689.18	8.30	9.00	688.81	8.70	21.90	677.65	27.20
3/2018	9.16	689.82	8.94	9.40	688.41	8.30	21.88	677.67	27.22
8/2018	10.49	688.49	7.61	9.47	688.34	8.23	22.64	676.91	26.46
2/2019	9.60	689.38	8.50	8.10	689.71	9.60	19.66	679.89	29.44
7/2019	8.30	690.68	9.80	6.40	691.41	11.30	17.75	681.80	31.35
4/2020	8.71	690.27	9.39	7.79	690.02	9.91	18.97	680.58	30.13
8/2020	9.15	689.83	8.95	7.89	689.92	9.81	19.27	680.28	29.83
3/2021	9.51	689.47	8.59	8.55	689.26	9.15	21.61	677.94	27.49
7/2021	7.32	691.66	10.78	5.43	692.38	12.27	17.30	682.25	31.80
4/2022	9.83	689.15	8.27	8.20	689.61	9.50	23.09	676.46	26.01
7/2022	Damaged	NA	NA	8.00	689.81	9.70	21.94	677.61	27.16
3/2023	8.70	690.28	9.40	8.75	689.06	8.95	22.88	676.67	26.22
9/2023	8.90	690.08	9.20	9.15	688.66	8.55	22.56	676.99	26.54

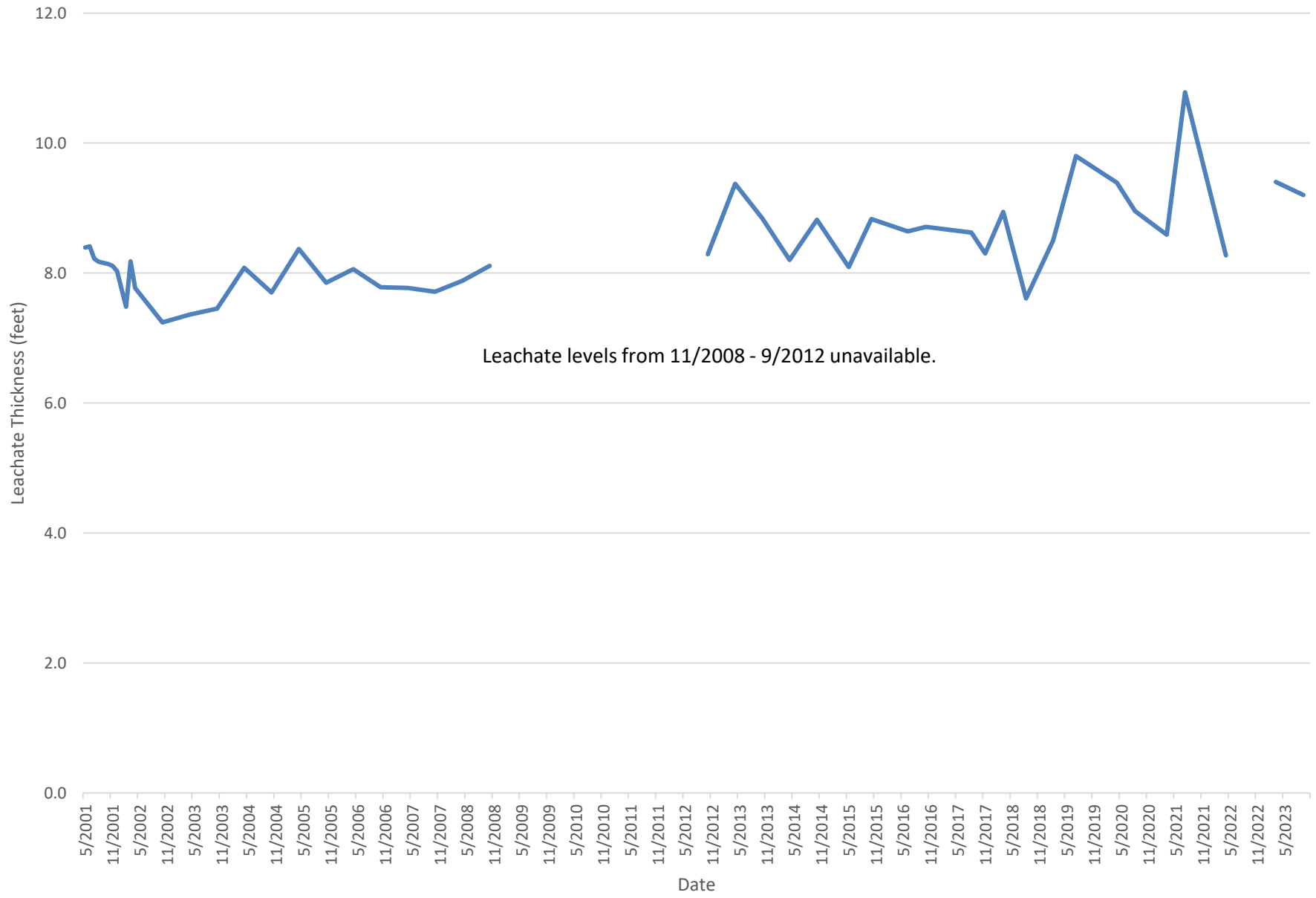
Notes:

Leachate Level - depth to leachate surface measured in feet below top of casing.

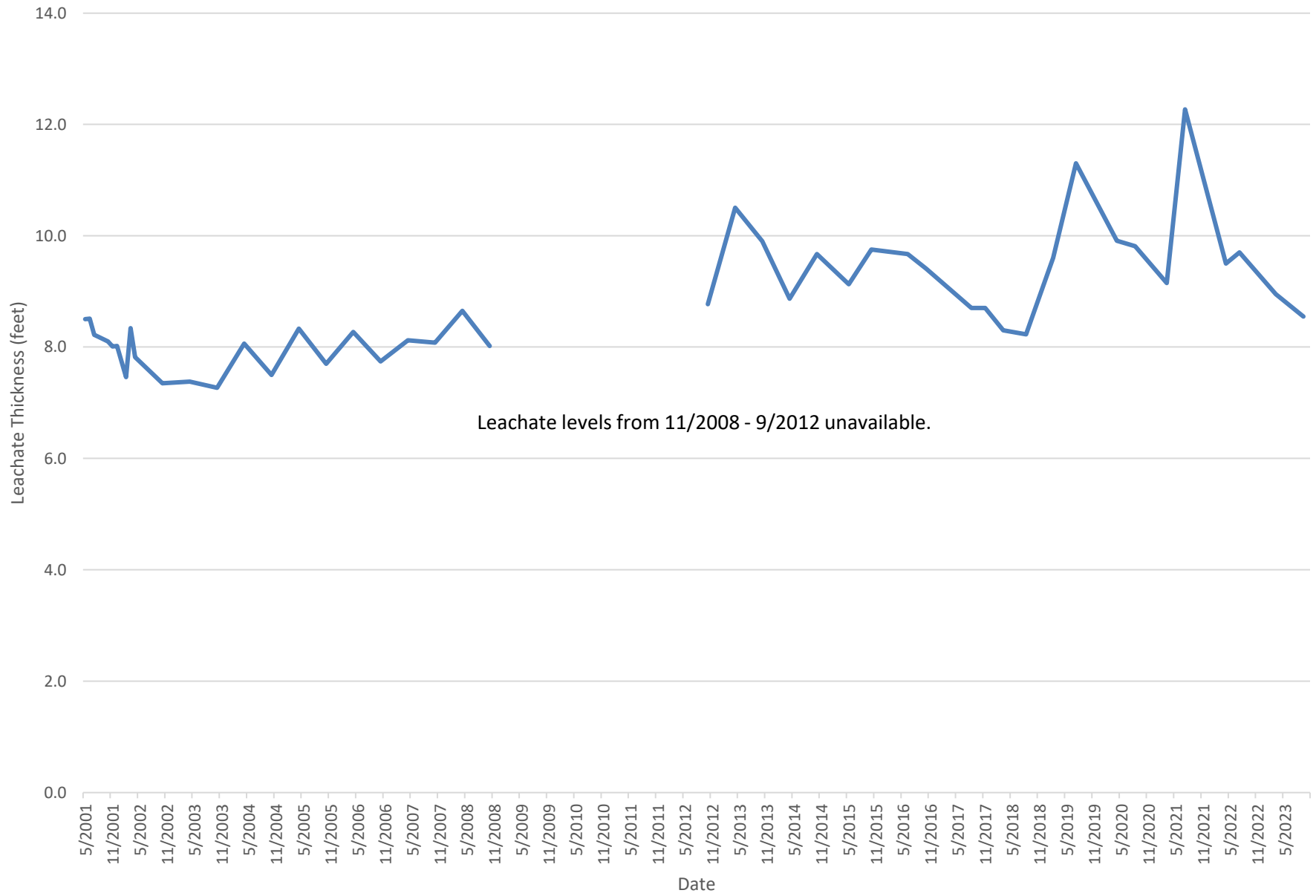
Leachate Elevation - elevation of leachate surface in feet above mean sea level (MSL).

Leachate Thickness - depth of liquid in waste disposal areas (thickness = piezometer depth - leachate level).

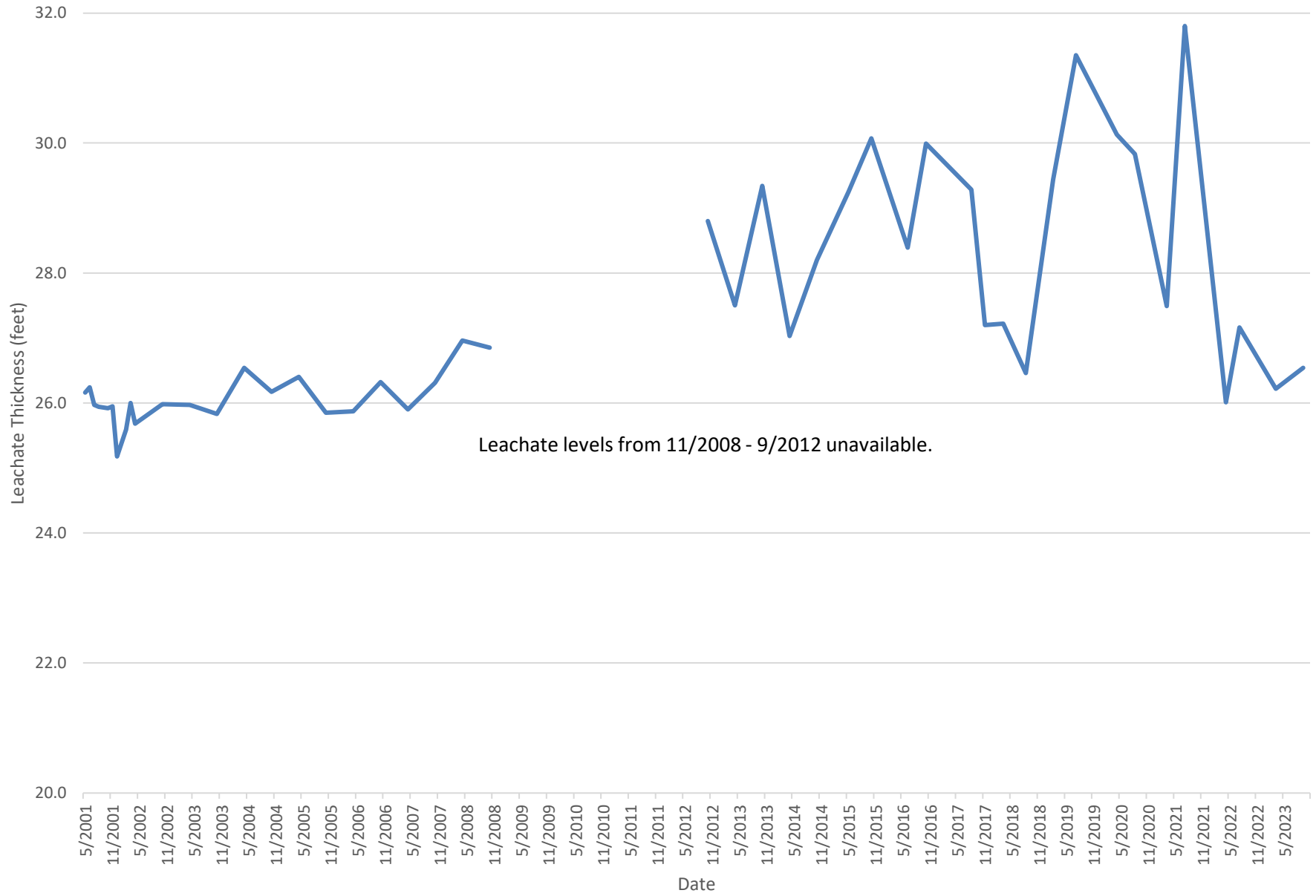
LP-1



LP-2



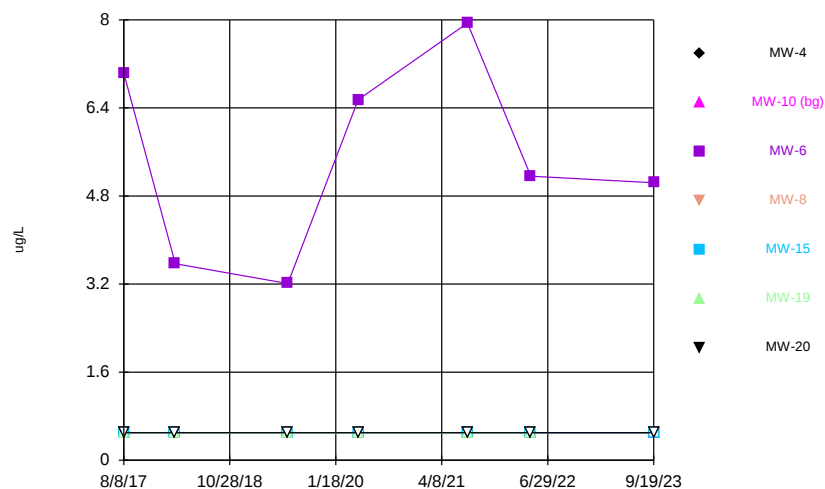
LP-3



Appendix E

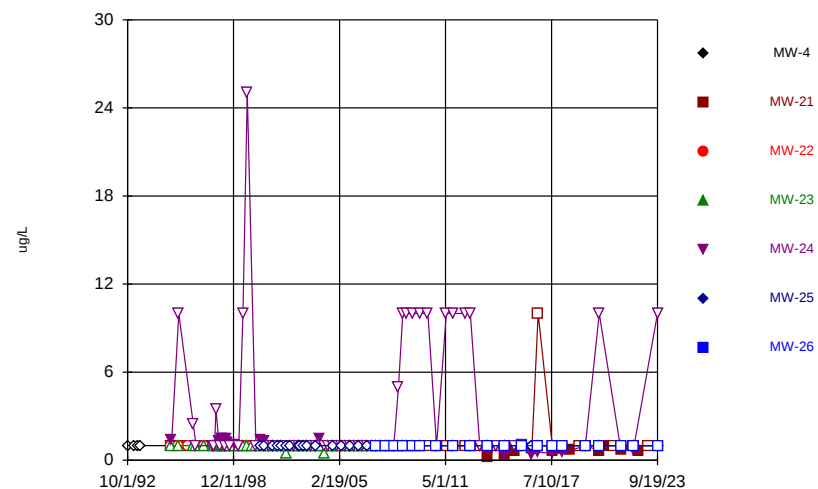
Time Series Graphs

Time Series



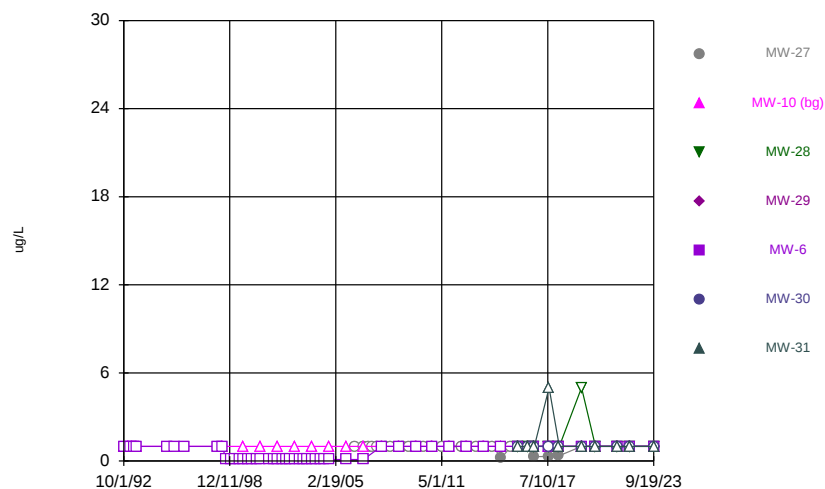
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



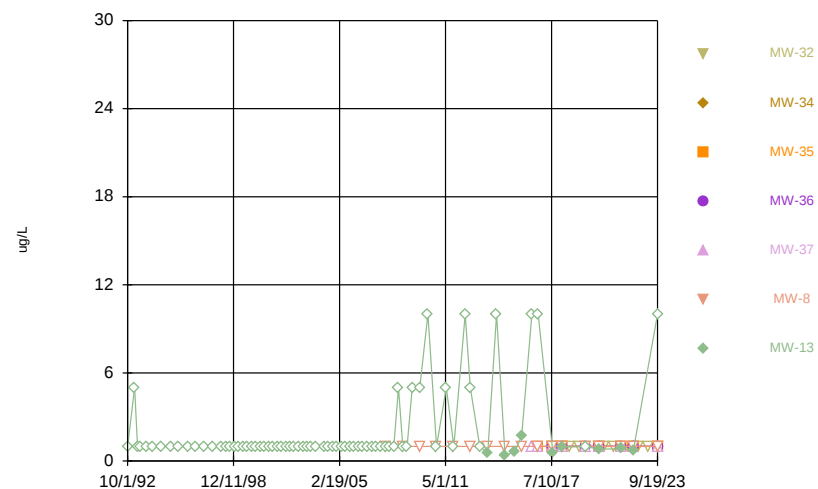
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



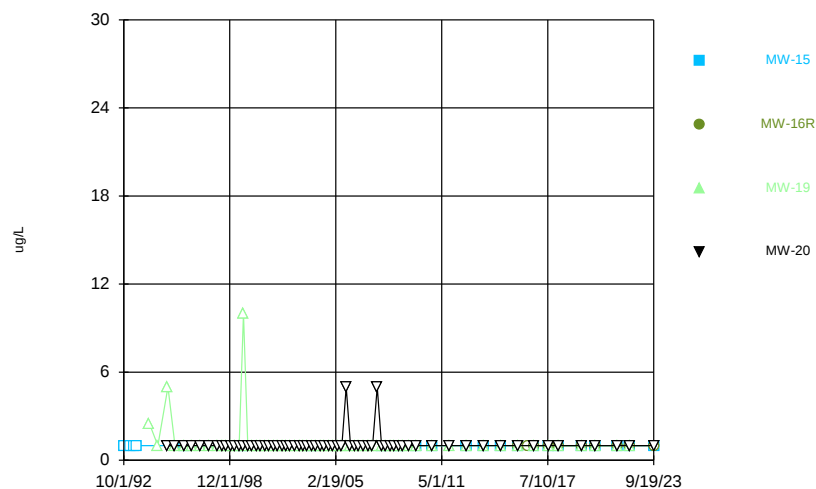
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



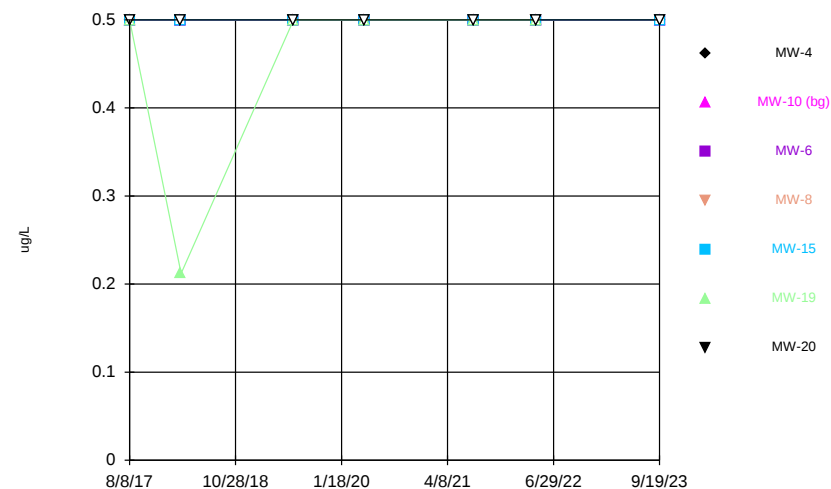
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

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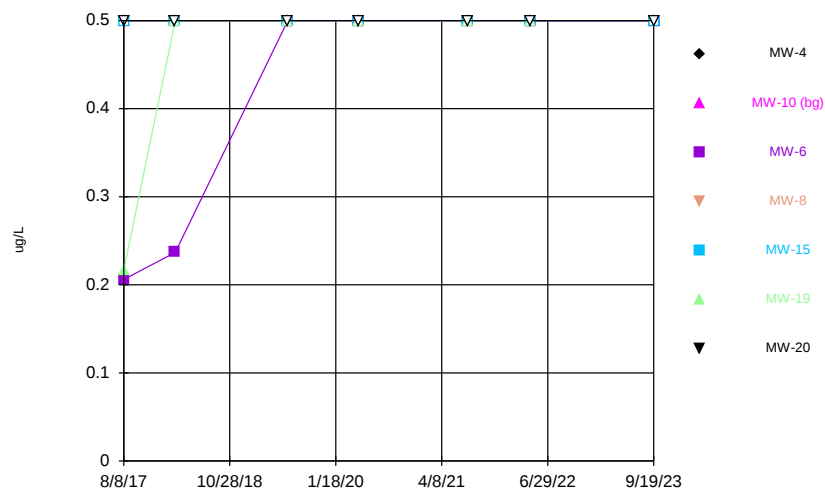
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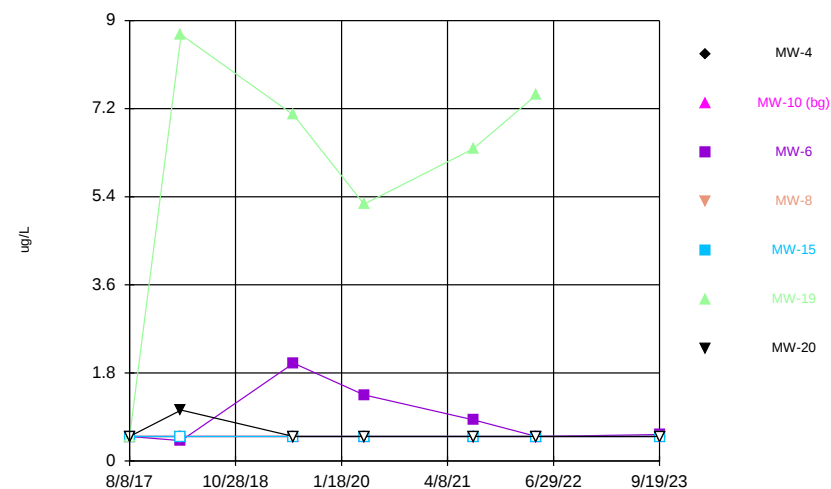
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



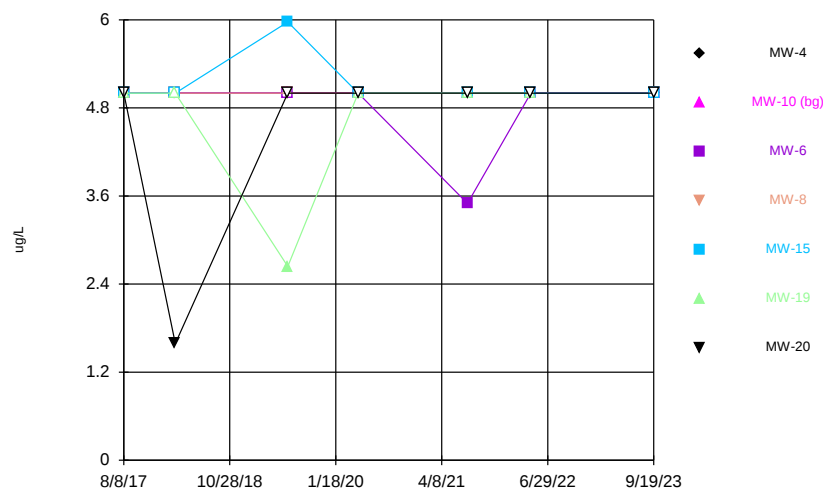
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



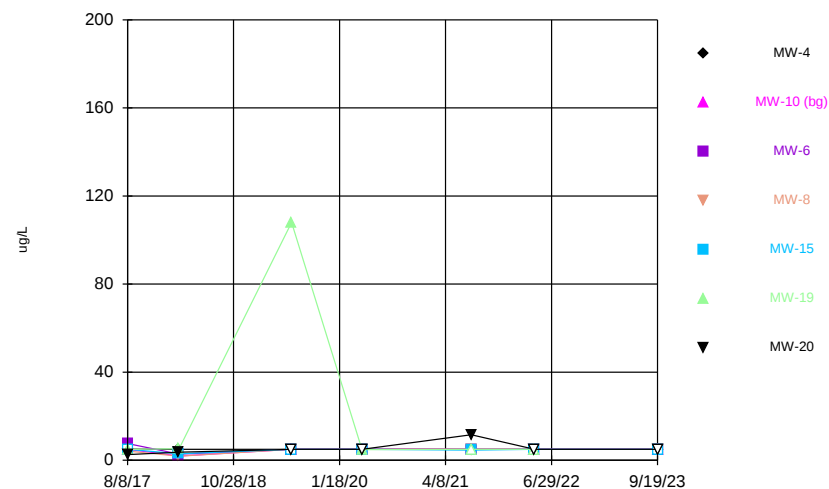
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

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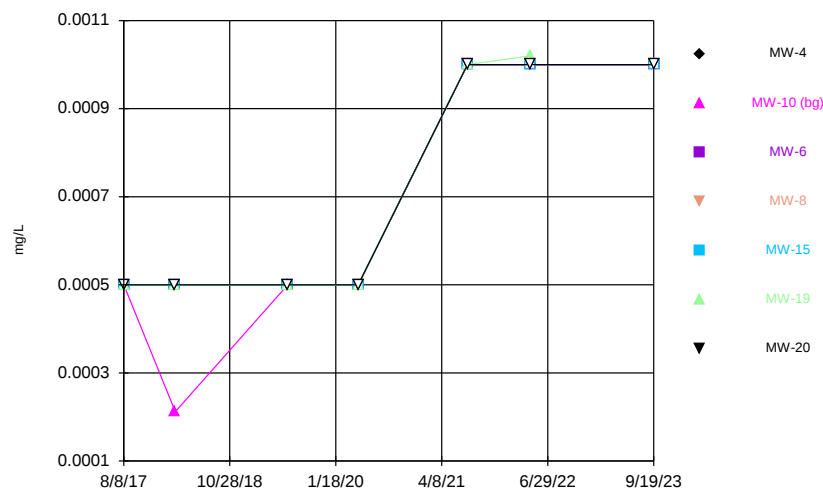
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



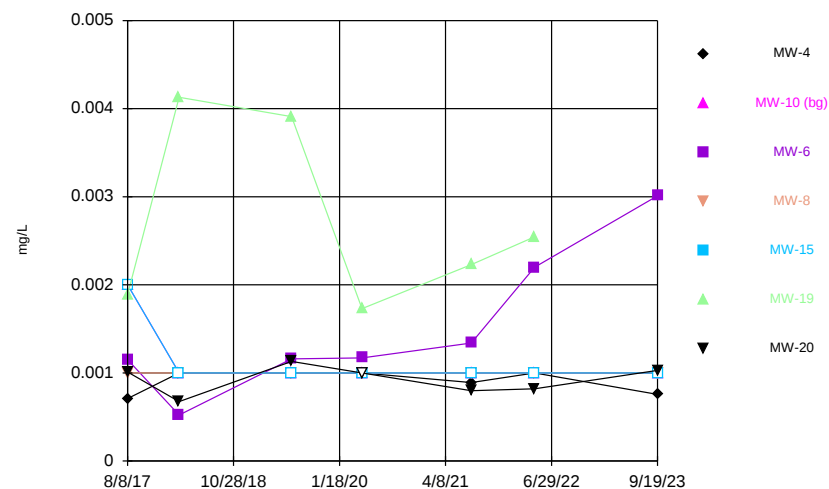
Constituent: Acetone Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



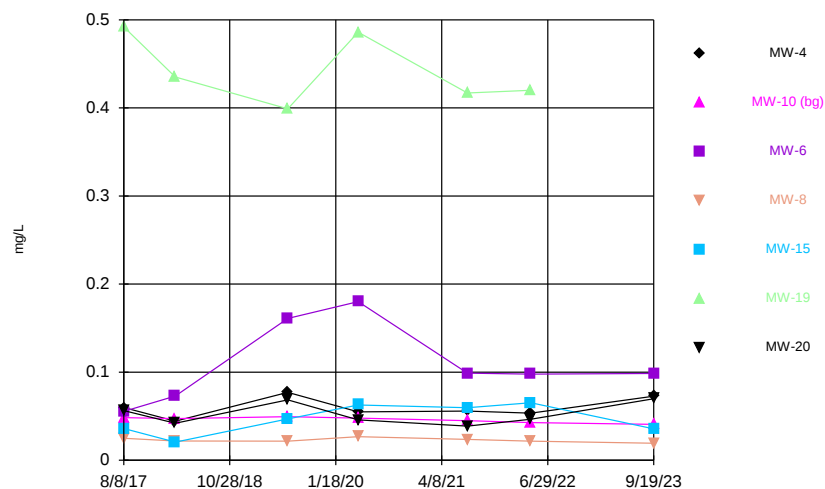
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



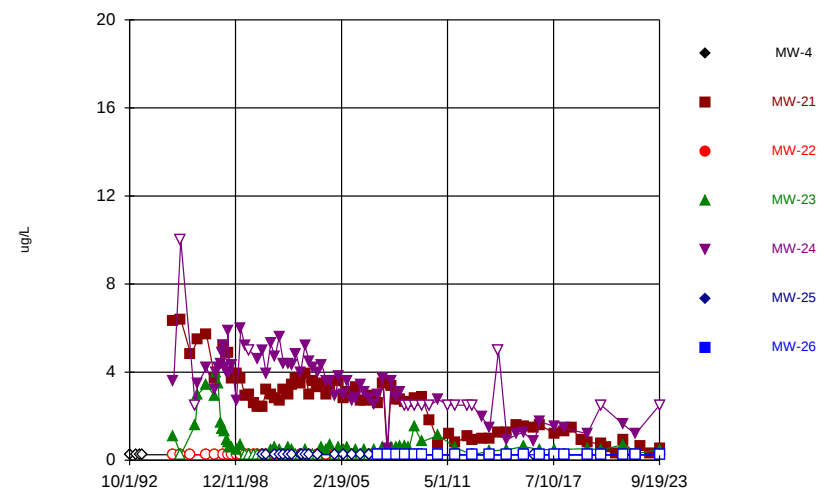
Constituent: Arsenic Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



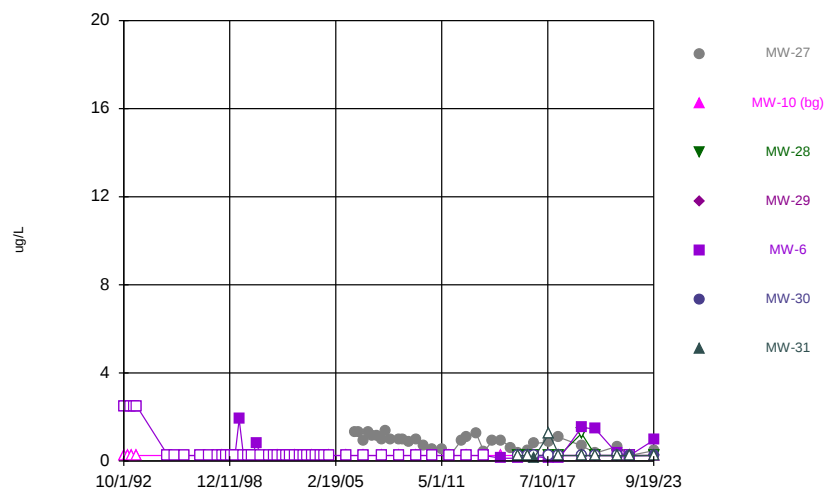
Constituent: Barium Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



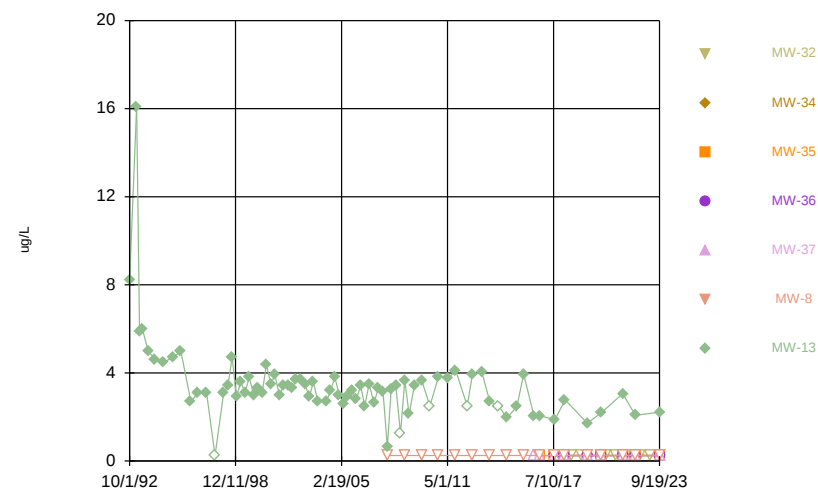
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



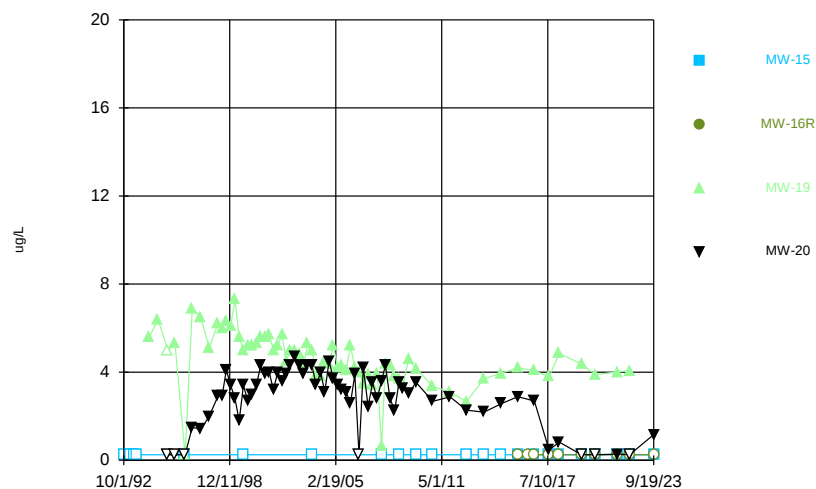
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



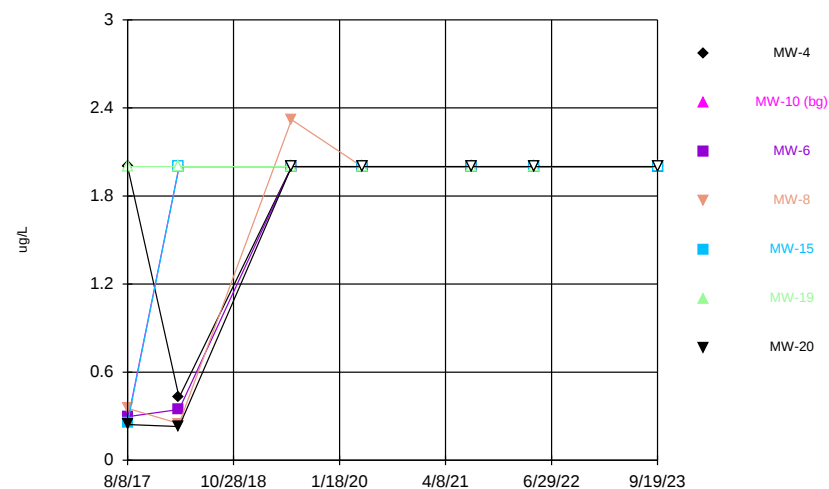
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



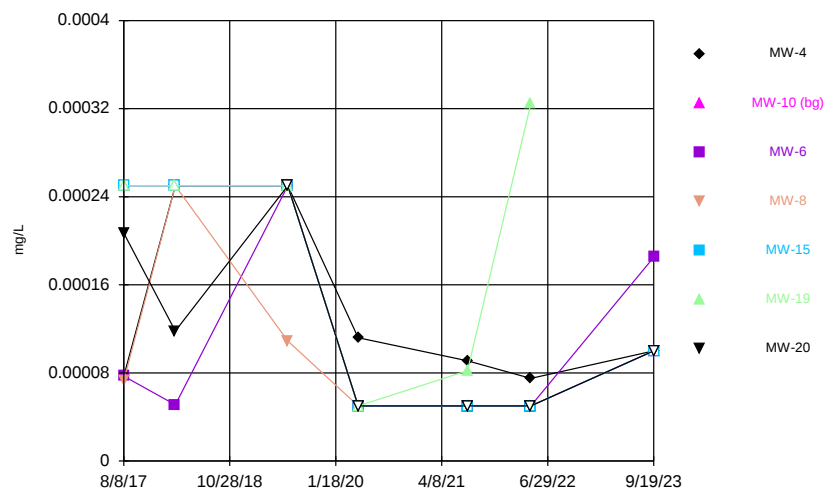
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



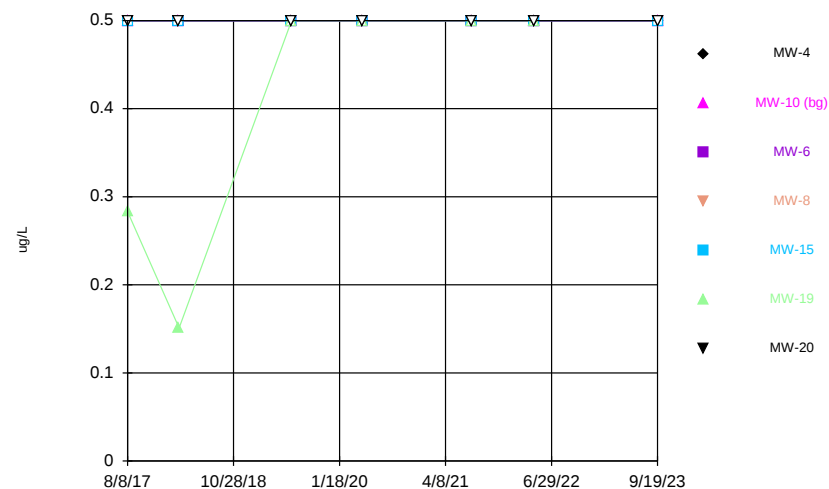
Constituent: Bromomethane Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



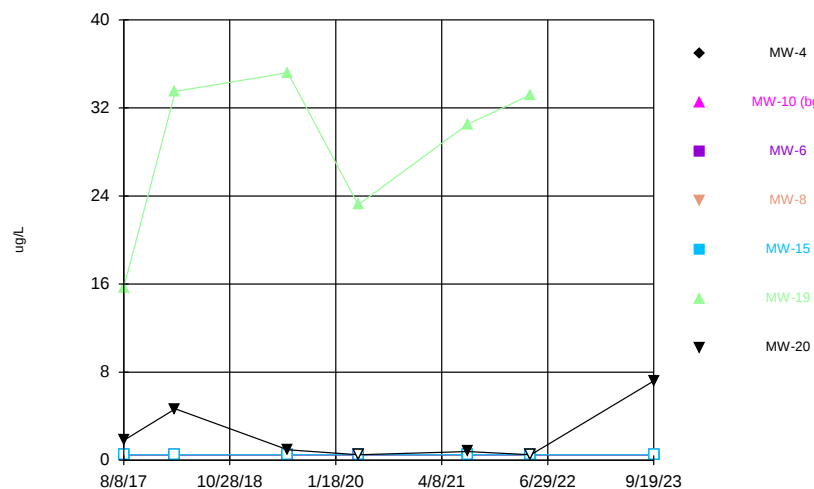
Constituent: Cadmium Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



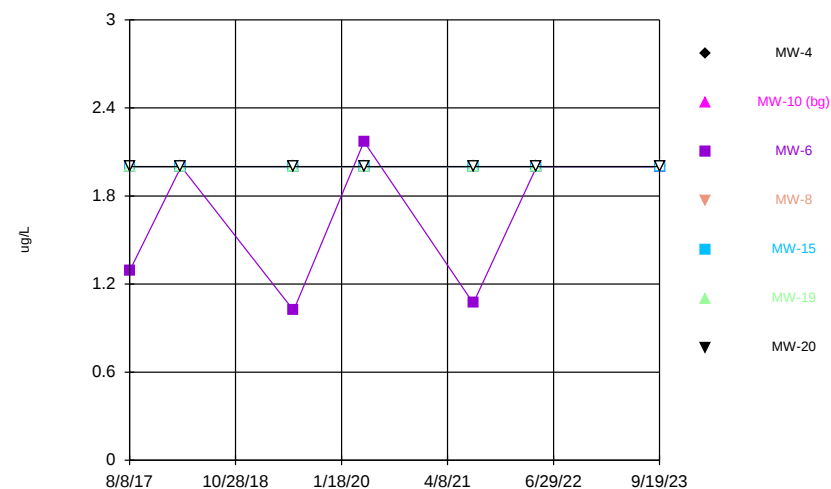
Constituent: Carbon Disulfide Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



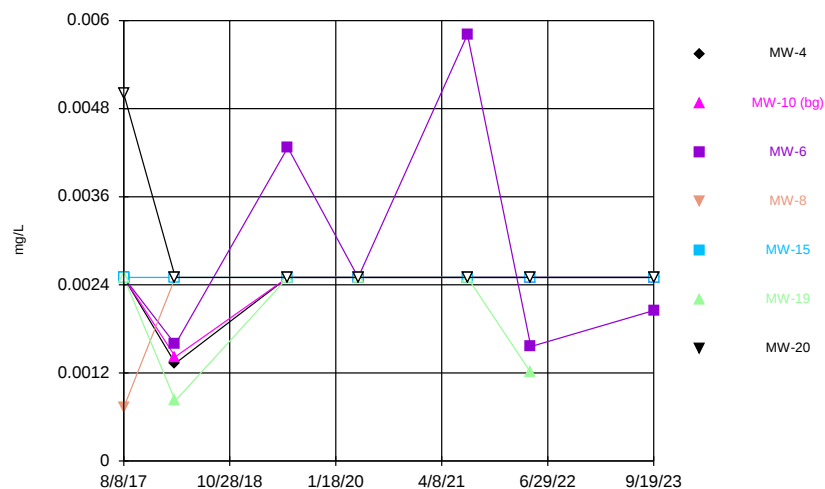
Constituent: Chlorobenzene Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



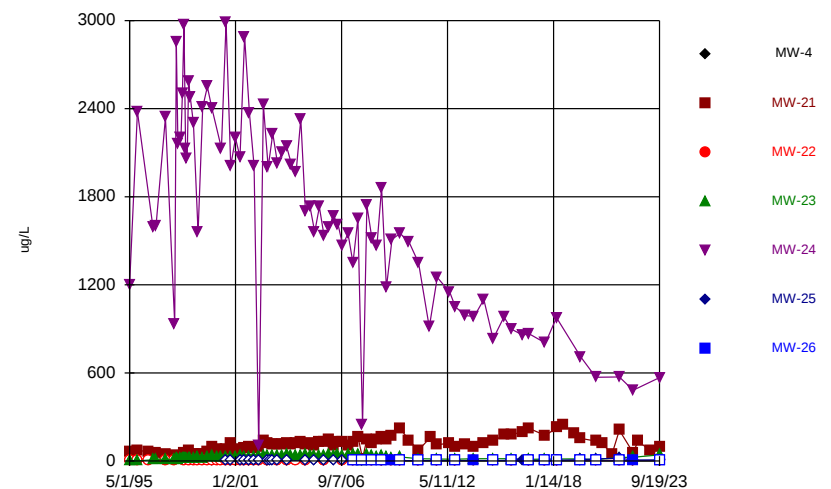
Constituent: Chloroethane Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



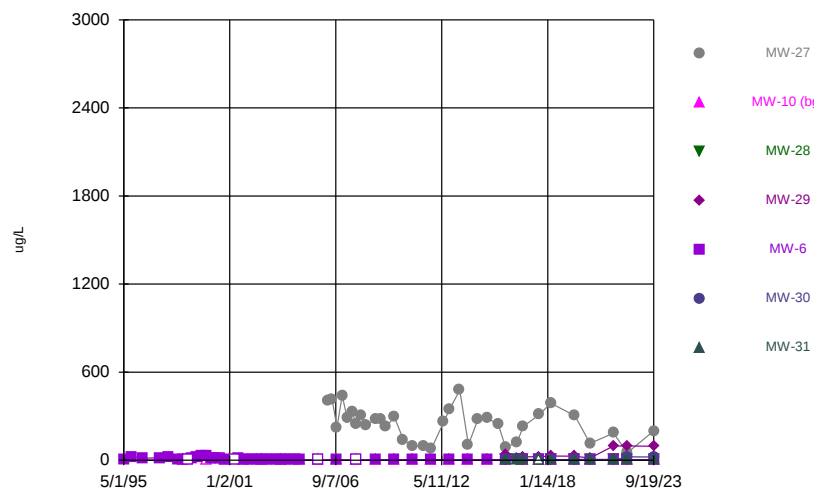
Constituent: Chromium Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series

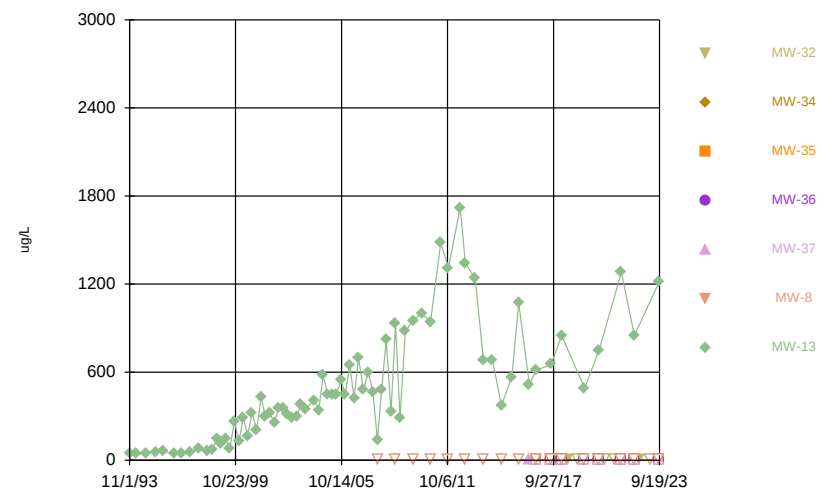


Constituent: cis-1,2-Dichloroethene Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

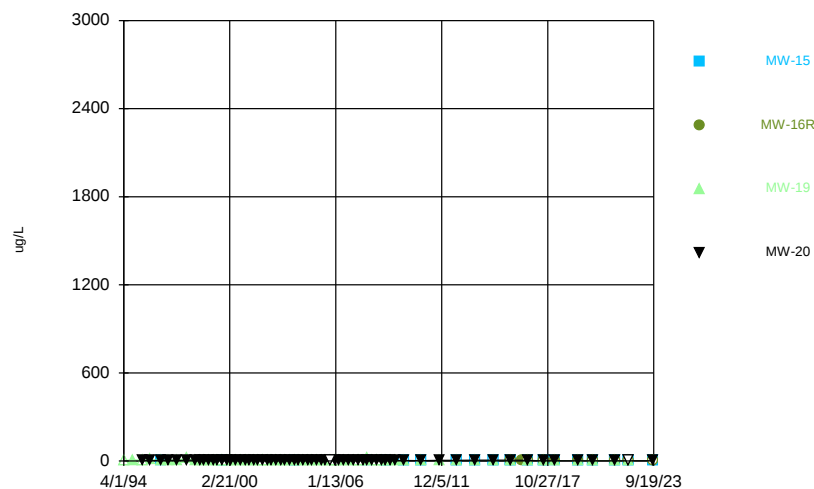
Time Series



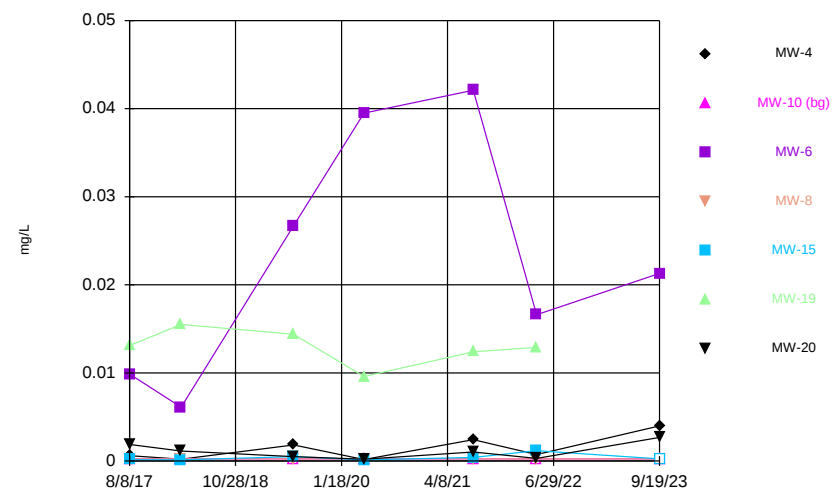
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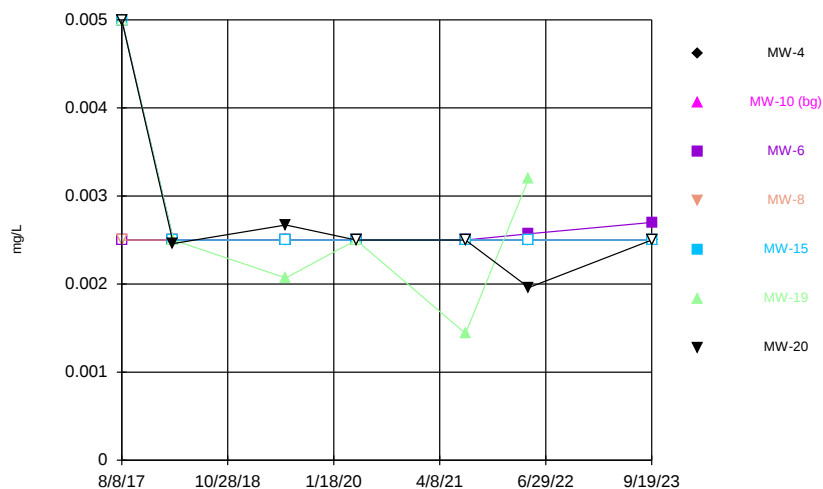
Time Series



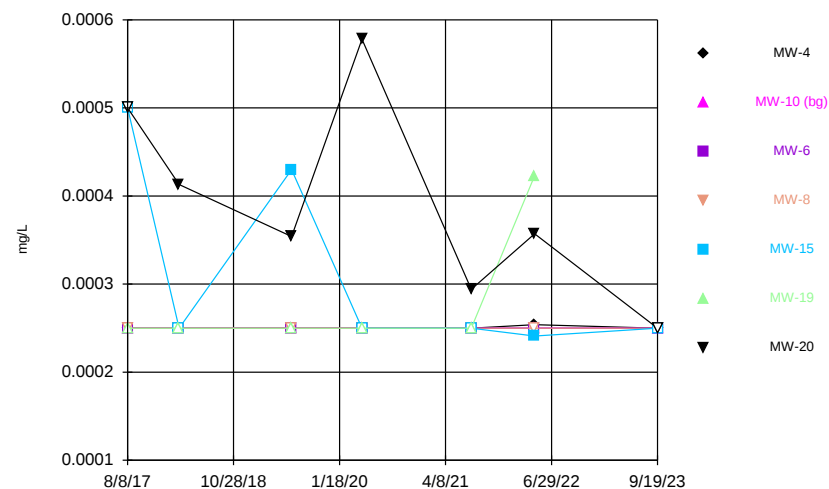
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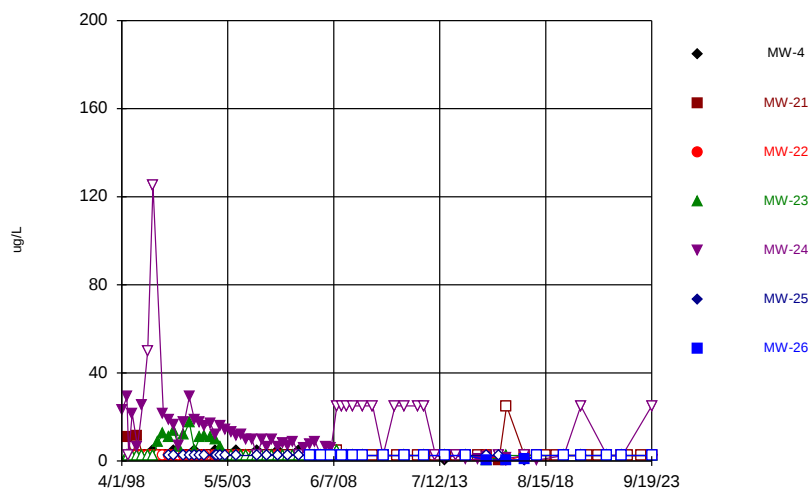
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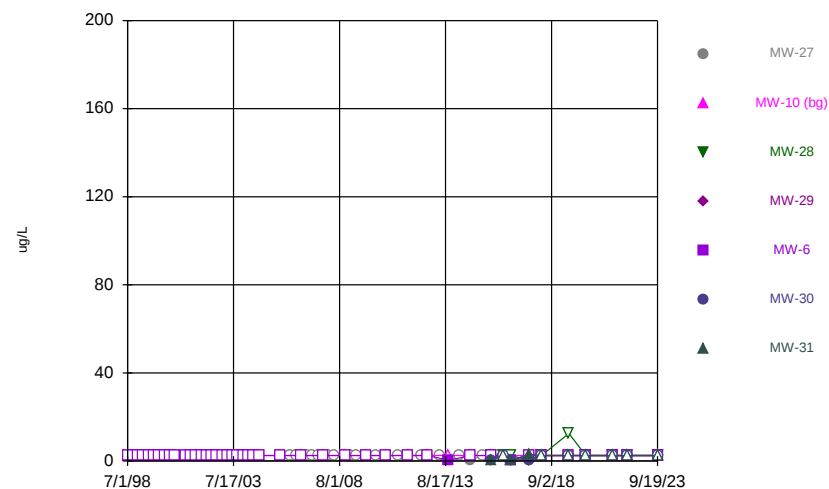
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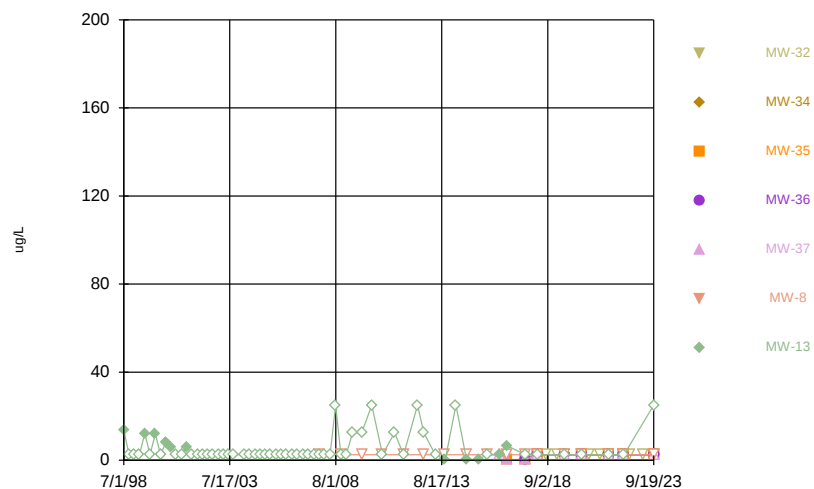
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Time Series

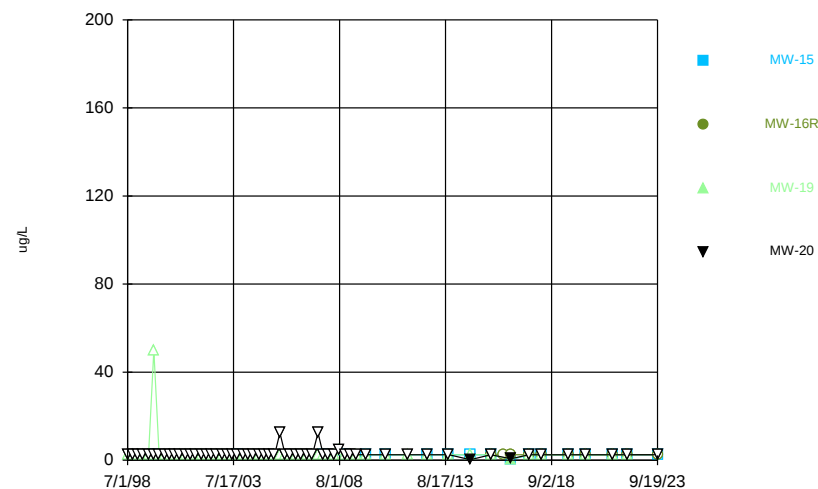


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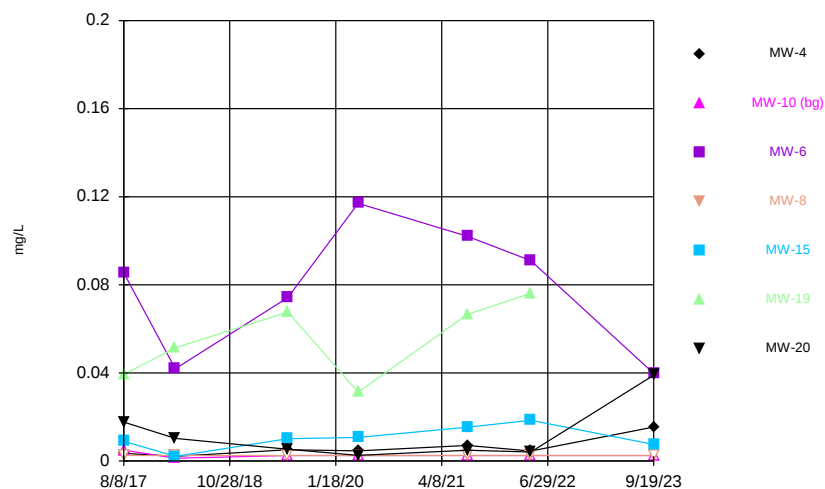
Constituent: Methylene Chloride Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



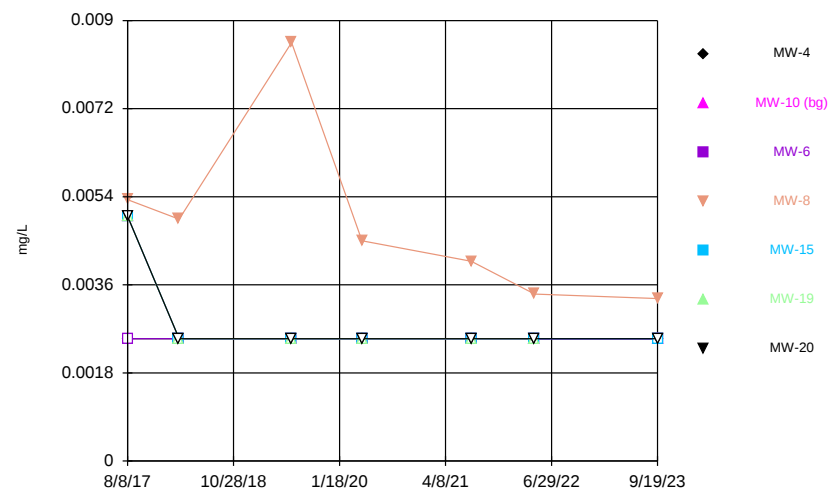
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



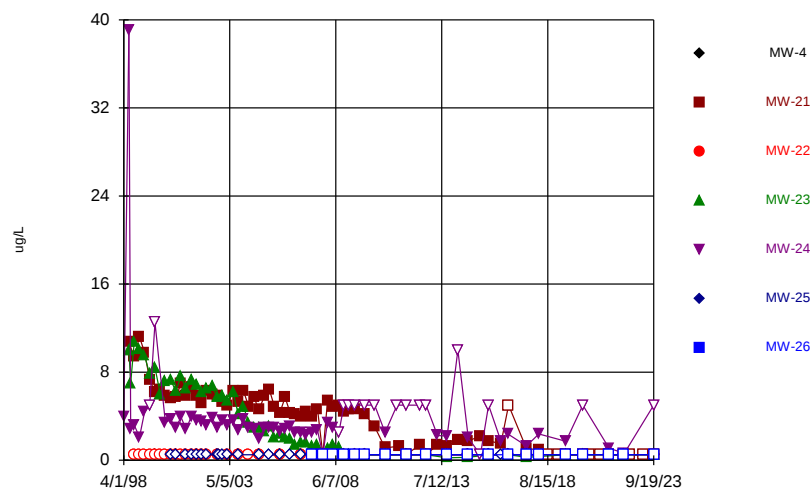
Constituent: Nickel Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



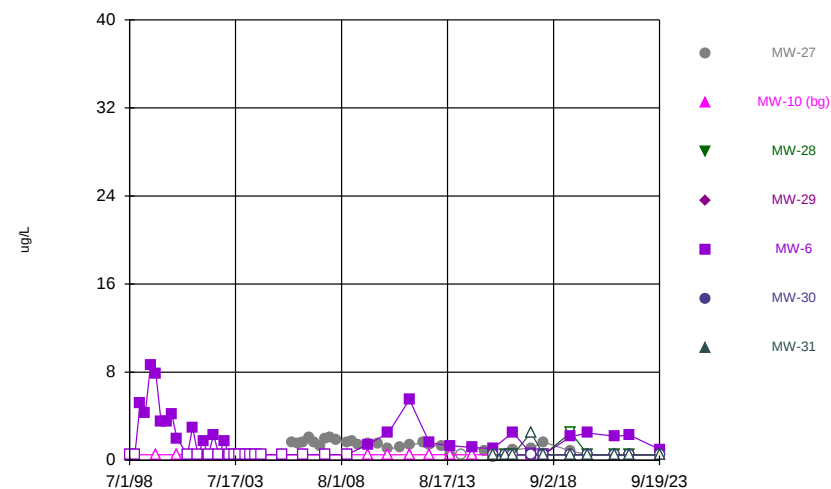
Constituent: Selenium Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



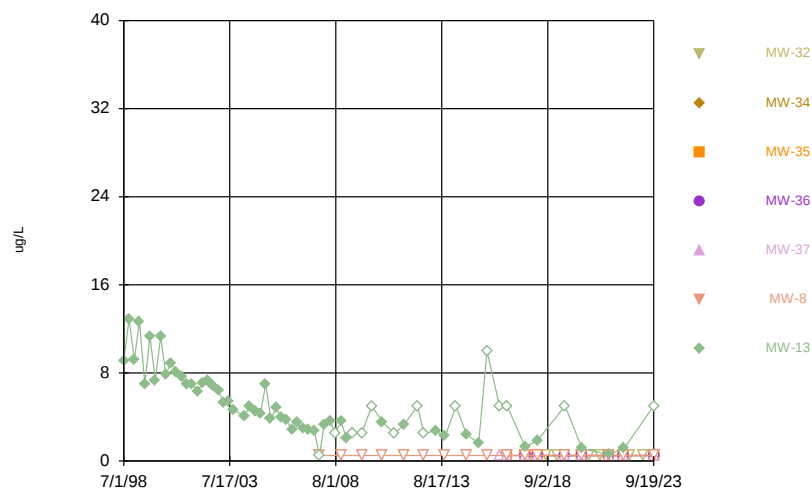
Constituent: Tetrachloroethene Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



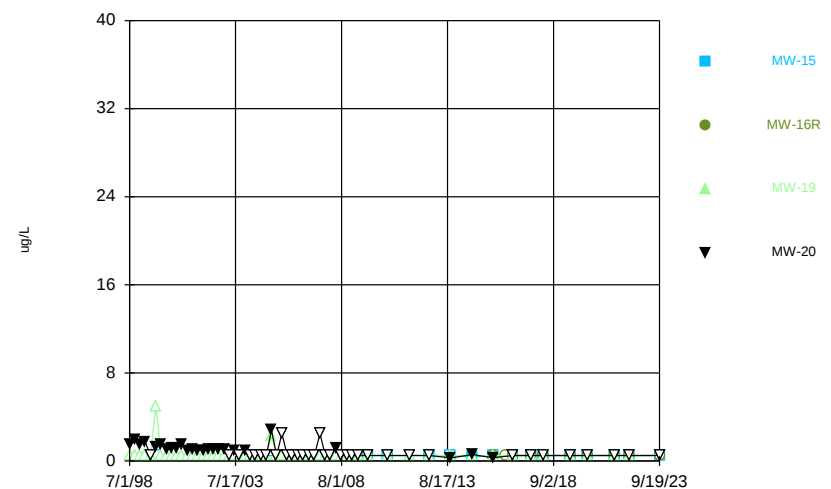
Constituent: Tetrachloroethene Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



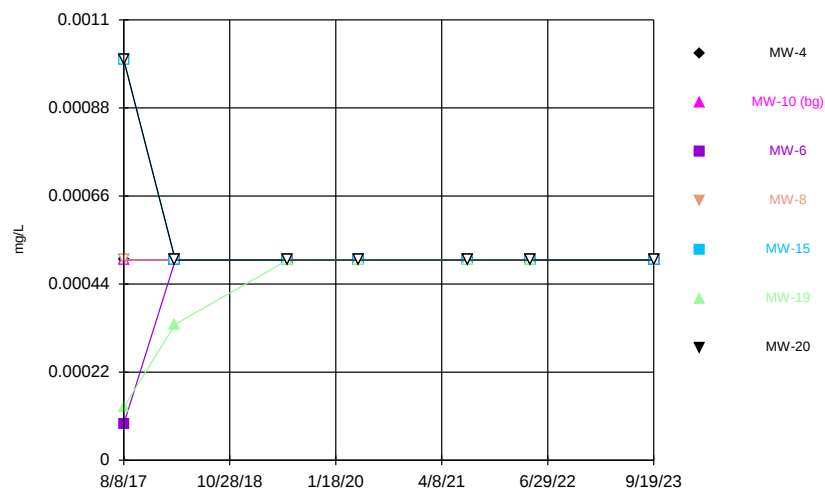
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series

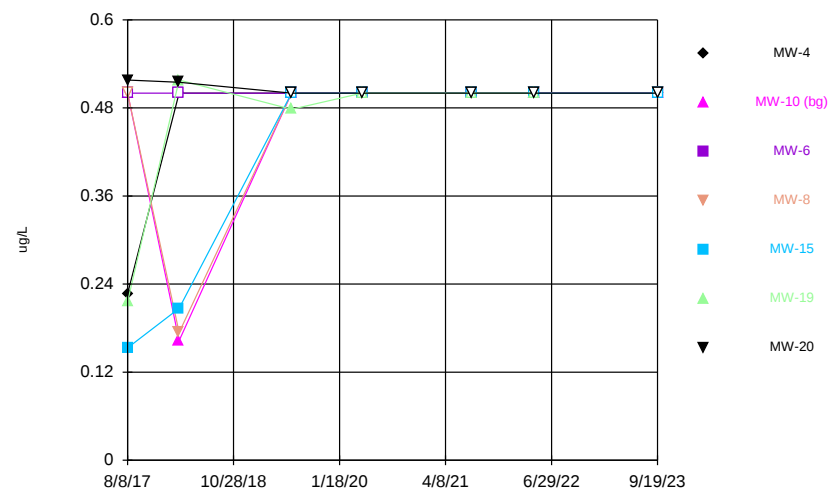


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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

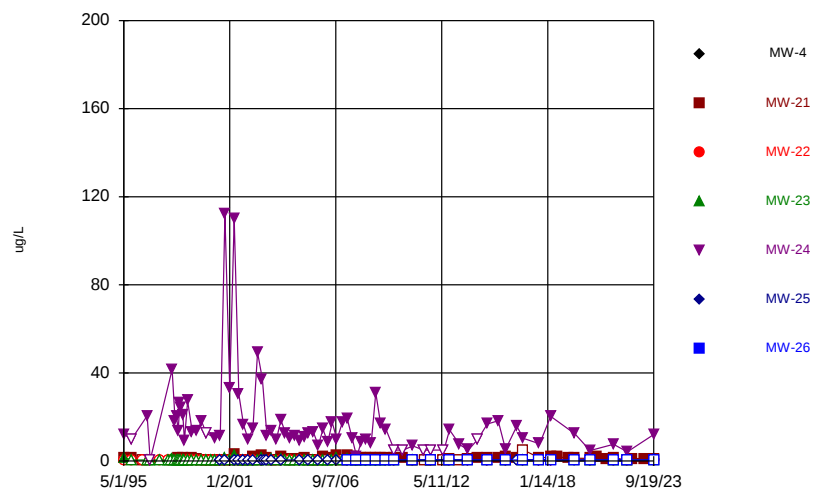
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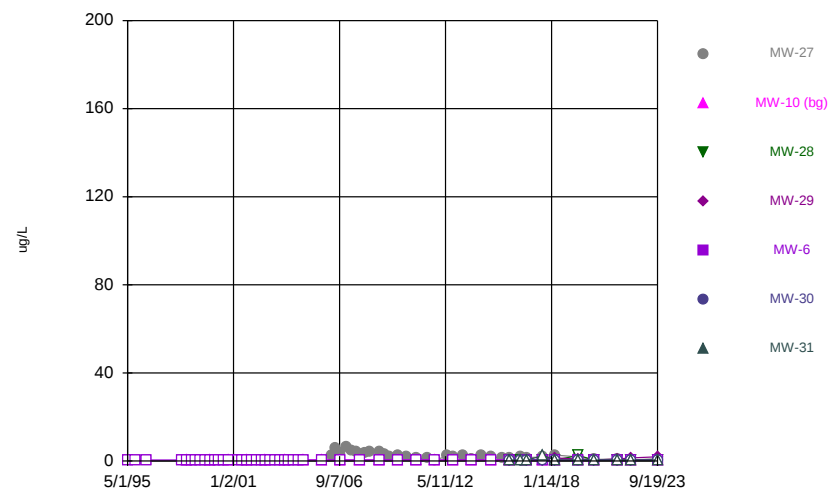
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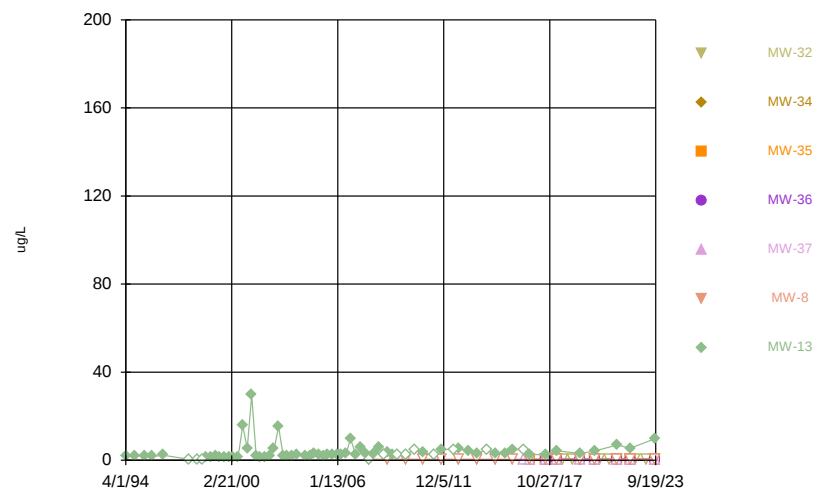
Time Series



Time Series

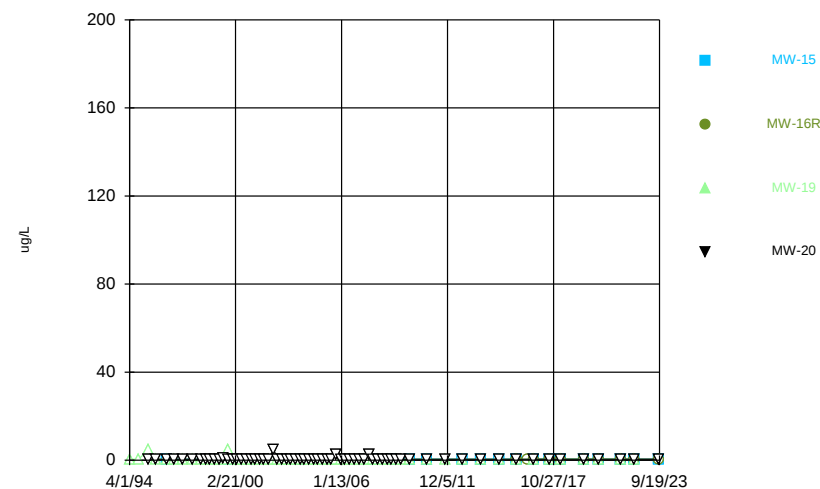


Time Series



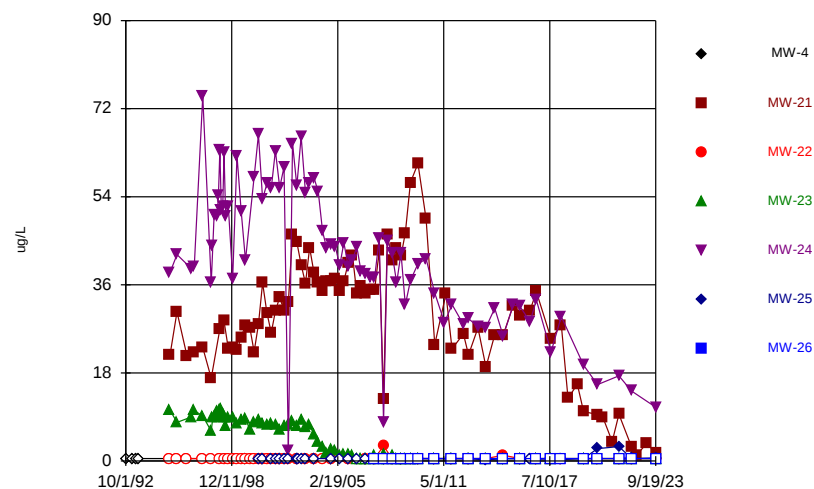
Constituent: trans-1,2-Dichloroethene Analysis Run 10/20/2023 9:37 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



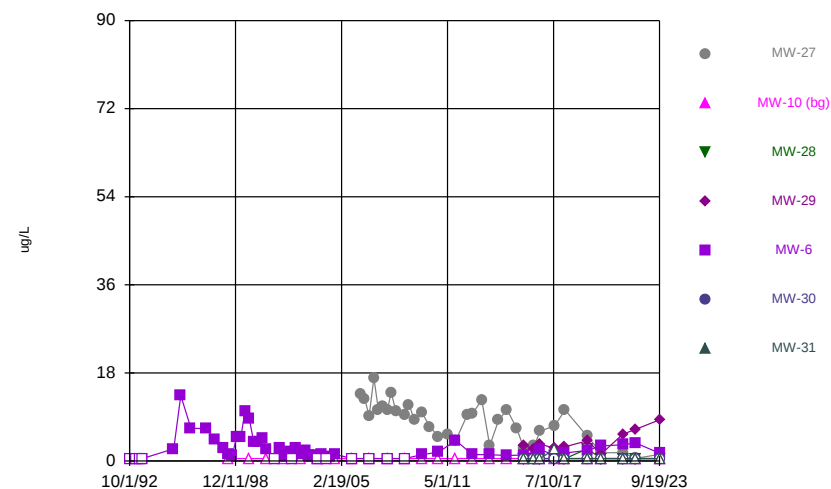
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



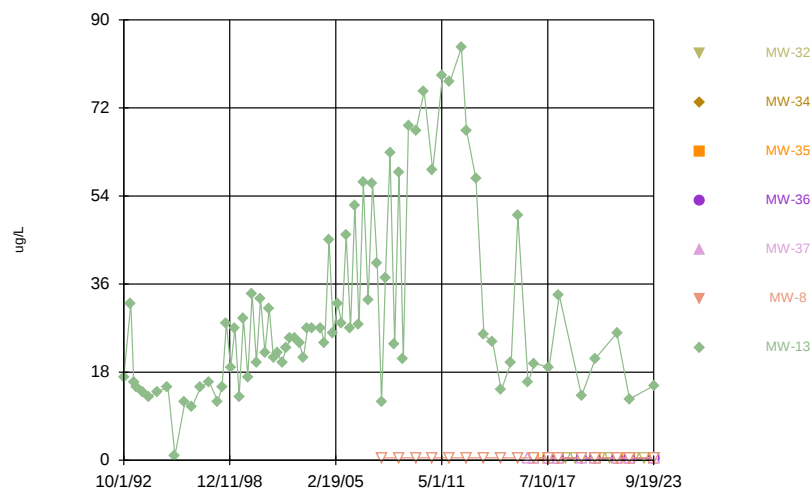
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



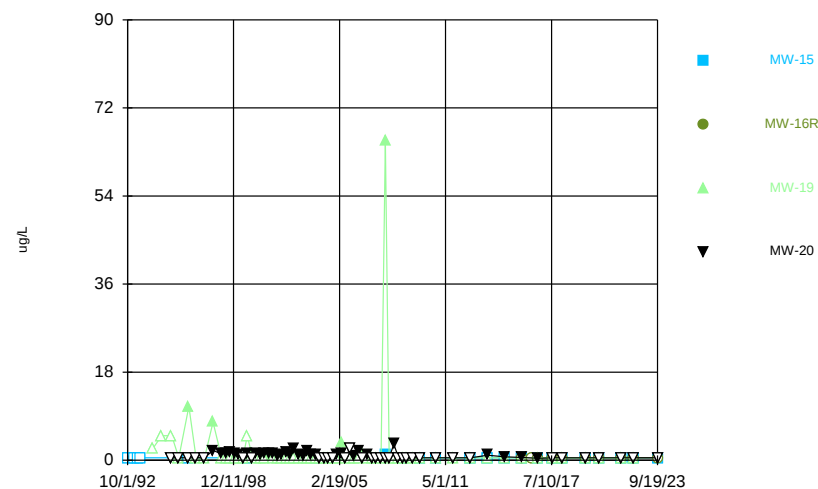
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



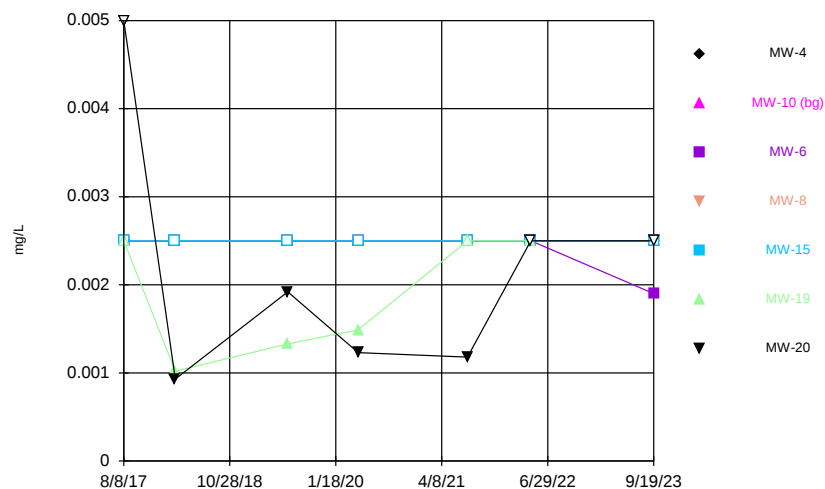
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



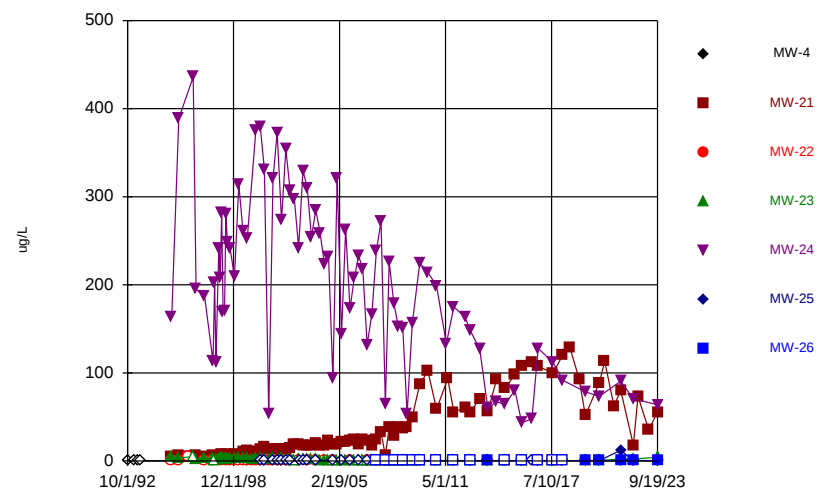
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



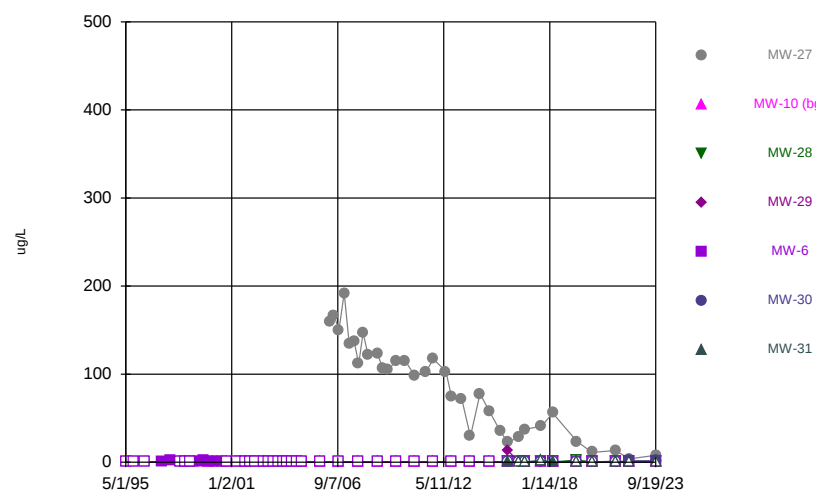
Constituent: Vanadium Analysis Run 10/20/2023 9:38 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



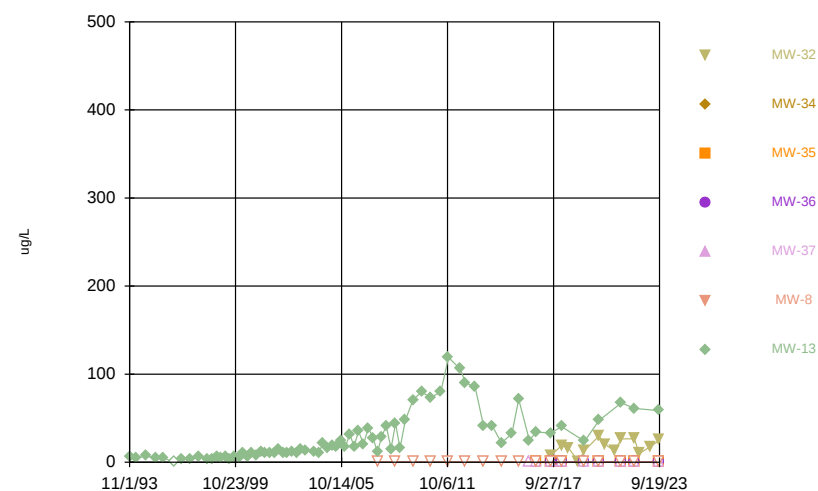
Constituent: Vinyl Chloride Analysis Run 10/20/2023 9:38 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



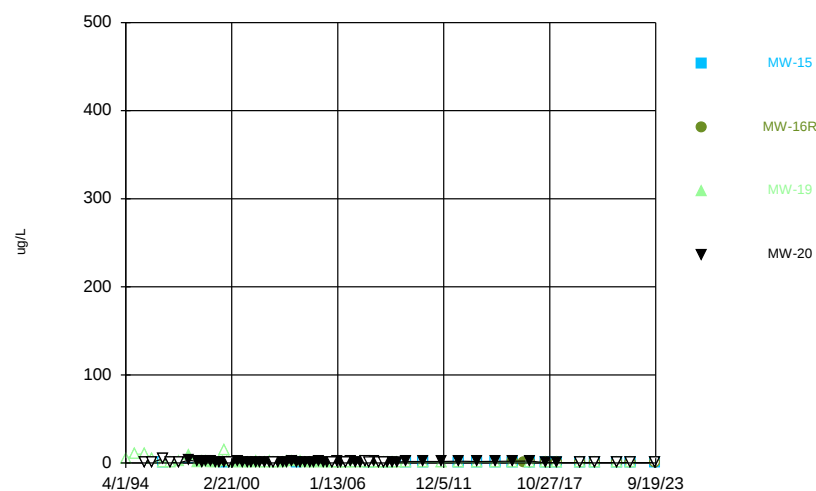
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



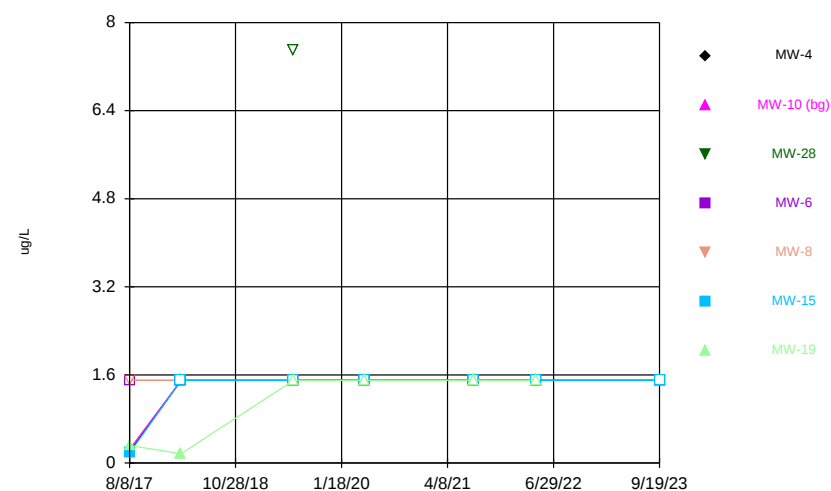
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



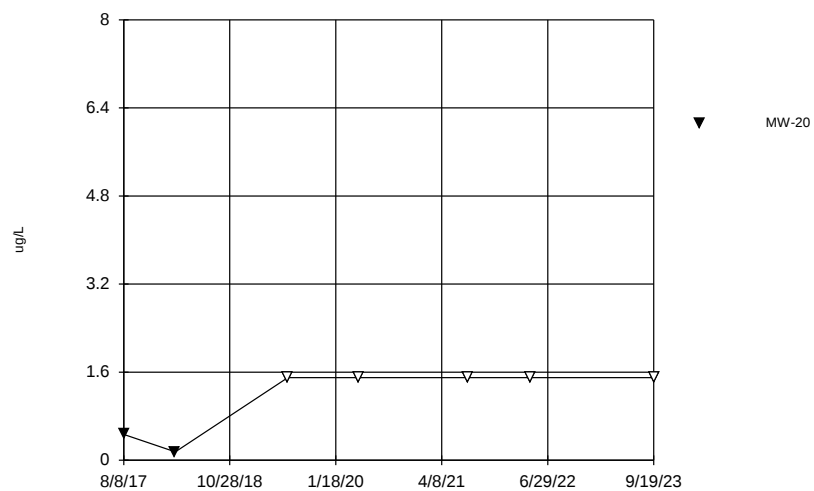
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



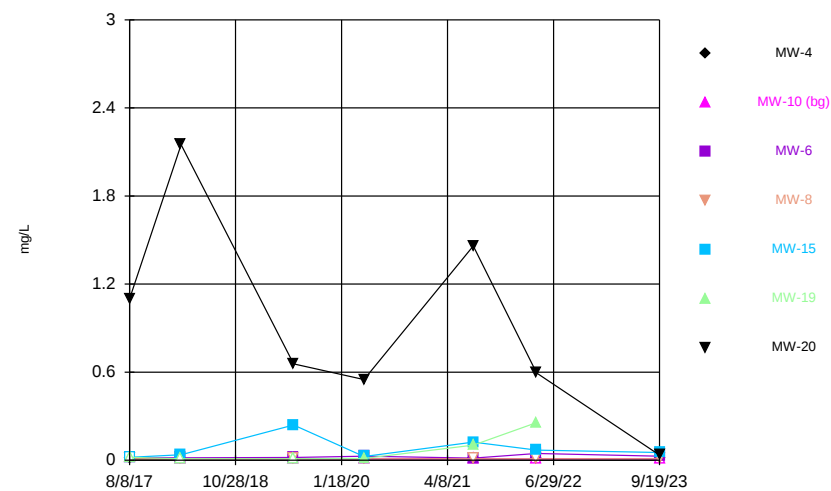
Constituent: Xylenes, total Analysis Run 10/20/2023 9:38 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



Constituent: Xylenes, total Analysis Run 10/20/2023 9:38 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Time Series



Constituent: Zinc Analysis Run 10/20/2023 9:38 AM View: 2023AWQR - Time Series
Henry County SLF Client: SCS Engineers Data: HCSWC History basis

Appendix F

Confidence Interval/Confidence Band Summary Tables and Graphs

Confidence Interval

Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR Printed 10/20/2023, 11:16 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-6	7.597	3.403	140	No	7	0	No	0.01	Param.
1,2-Dichlorobenzene (ug/L)	MW-19	0.5	0.212	600	No	6	83.33	No	0.0155	NP (NDs)
1,2-Dichloroethane (ug/L)	MW-19	0.5	0.217	5	No	6	83.33	No	0.0155	NP (NDs)
1,2-Dichloroethane (ug/L)	MW-6	0.5	0.206	5	No	7	71.43	No	0.008	NP (NDs)
1,4-Dichlorobenzene (ug/L)	MW-19	9.366	2.599	75	No	6	16.67	No	0.01	Param.
1,4-Dichlorobenzene (ug/L)	MW-20	1.04	0.5	75	No	7	85.71	No	0.008	NP (NDs)
1,4-Dichlorobenzene (ug/L)	MW-6	1.546	0.2688	75	No	7	28.57	No	0.01	Param.
2-Butanone (ug/L)	MW-15	5.97	5	4000	No	7	85.71	No	0.008	NP (NDs)
2-Butanone (ug/L)	MW-19	5	2.64	4000	No	6	83.33	No	0.0155	NP (NDs)
2-Butanone (ug/L)	MW-20	5	1.59	4000	No	7	85.71	No	0.008	NP (NDs)
Acetone (ug/L)	MW-10 (bg)	5	1.91	6300	No	7	85.71	No	0.008	NP (NDs)
Acetone (ug/L)	MW-15	5	2.92	6300	No	7	71.43	No	0.008	NP (NDs)
Acetone (ug/L)	MW-19	108	4.82	6300	No	6	33.33	No	0.0155	NP (normality)
Acetone (ug/L)	MW-20	11.6	2.55	6300	No	7	57.14	No	0.008	NP (NDs)
Acetone (ug/L)	MW-4	5.02	5	6300	No	7	85.71	No	0.008	NP (NDs)
Acetone (ug/L)	MW-6	7.58	2.76	6300	No	7	71.43	No	0.008	NP (NDs)
Acetone (ug/L)	MW-8	5	1.88	6300	No	7	71.43	No	0.008	NP (NDs)
Antimony (mg/L)	MW-10 (bg)	0.001	0.000212	0.006	No	7	85.71	No	0.008	NP (NDs)
Arsenic (mg/L)	MW-19	0.004159	0.001319	0.01	No	6	0	No	0.01	Param.
Arsenic (mg/L)	MW-20	0.001115	0.0007319	0.01	No	7	14.29	No	0.01	Param.
Arsenic (mg/L)	MW-4	0.001	0.000709	0.01	No	7	57.14	No	0.008	NP (NDs)
Barium (mg/L)	MW-10 (bg)	0.04973	0.04205	2	No	7	0	No	0.01	Param.
Barium (mg/L)	MW-15	0.06662	0.02678	2	No	7	0	No	0.01	Param.
Barium (mg/L)	MW-19	0.4945	0.3885	2	No	6	0	No	0.01	Param.
Barium (mg/L)	MW-20	0.06745	0.03768	2	No	7	0	No	0.01	Param.
Barium (mg/L)	MW-4	0.07331	0.04618	2	No	7	0	No	0.01	Param.
Barium (mg/L)	MW-6	0.1629	0.05554	2	No	7	0	No	0.01	Param.
Barium (mg/L)	MW-8	0.02575	0.01993	2	No	7	0	No	0.01	Param.
Benzene (ug/L)	MW-19	4.507	3.801	5	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-20	2.69	0.25	5	No	8	37.5	No	0.004	NP (normality)
Benzene (ug/L)	MW-6	1.256	-0.009277	5	No	8	12.5	No	0.01	Param.
Bromomethane (ug/L)	MW-10 (bg)	2	0.269	10	No	7	85.71	No	0.008	NP (NDs)
Bromomethane (ug/L)	MW-15	2	0.256	10	No	7	85.71	No	0.008	NP (NDs)
Bromomethane (ug/L)	MW-20	2	0.229	10	No	7	71.43	No	0.008	NP (NDs)
Bromomethane (ug/L)	MW-4	2	0.428	10	No	7	85.71	No	0.008	NP (NDs)
Bromomethane (ug/L)	MW-6	2	0.297	10	No	7	71.43	No	0.008	NP (NDs)
Bromomethane (ug/L)	MW-8	2.32	0.25	10	No	7	57.14	No	0.008	NP (NDs)
Cadmium (mg/L)	MW-19	0.0003245	0.00005	0.005	No	6	66.67	No	0.0155	NP (NDs)
Cadmium (mg/L)	MW-20	0.00025	0.00005	0.005	No	7	71.43	No	0.008	NP (NDs)
Cadmium (mg/L)	MW-4	0.00025	0.000075	0.005	No	7	42.86	No	0.008	NP (normality)
Cadmium (mg/L)	MW-6	0.00025	0.00005	0.005	No	7	57.14	No	0.008	NP (NDs)
Cadmium (mg/L)	MW-8	0.00025	0.00005	0.005	No	7	71.43	No	0.008	NP (NDs)
Carbon Disulfide (ug/L)	MW-19	0.5	0.151	700	No	6	66.67	No	0.0155	NP (NDs)
Chlorobenzene (ug/L)	MW-19	38.97	18.13	100	No	6	0	No	0.01	Param.
Chlorobenzene (ug/L)	MW-20	5.215	-0.3166	100	No	7	28.57	No	0.01	Param.
Chloroethane (ug/L)	MW-6	1.938	0.8375	2800	No	7	42.86	No	0.01	Param.
Chromium (mg/L)	MW-10 (bg)	0.0025	0.00142	0.1	No	7	85.71	No	0.008	NP (NDs)
Chromium (mg/L)	MW-19	0.0025	0.00082	0.1	No	6	66.67	No	0.0155	NP (NDs)
Chromium (mg/L)	MW-4	0.0025	0.00133	0.1	No	7	85.71	No	0.008	NP (NDs)
Chromium (mg/L)	MW-6	0.004744	0.0009746	0.1	No	7	28.57	No	0.01	Param.

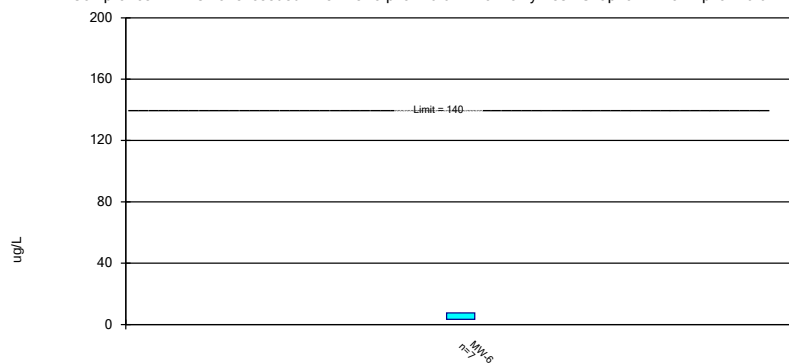
Confidence Interval

Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR Printed 10/20/2023, 11:17 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Chromium (mg/L)	MW-8	0.0025	0.000732	0.1	No	7	85.71	No	0.008	NP (NDs)
cis-1,2-Dichloroethene (ug/L)	MW-15	0.5	0.458	70	No	8	87.5	No	0.004	NP (NDs)
cis-1,2-Dichloroethene (ug/L)	MW-20	2.796	-0.28	70	No	8	12.5	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-6	6.14	3.372	70	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-15	0.0008339	-0.00004979	0.0021	No	7	14.29	No	0.01	Param.
Cobalt (mg/L)	MW-19	0.01574	0.01023	0.0021	Yes	6	0	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.002179	0.00002754	0.0021	No	7	0	No	0.01	Param.
Cobalt (mg/L)	MW-4	0.003093	-0.0002503	0.0021	No	7	0	No	0.01	Param.
Cobalt (mg/L)	MW-6	0.03963	0.006709	0.0021	Yes	7	0	No	0.01	Param.
Copper (mg/L)	MW-19	0.003237	0.001236	1.3	No	6	50	No	0.01	Param.
Copper (mg/L)	MW-20	0.005	0.00196	1.3	No	7	57.14	No	0.008	NP (NDs)
Lead (mg/L)	MW-15	0.0005	0.000241	0.015	No	7	71.43	No	0.008	NP (NDs)
Lead (mg/L)	MW-20	0.0005007	0.0002828	0.015	No	7	28.57	No	0.01	Param.
Methylene Chloride (ug/L)	MW-15	2.5	0.283	5	No	8	87.5	No	0.004	NP (NDs)
Methylene Chloride (ug/L)	MW-19	2.5	0.453	5	No	8	87.5	No	0.004	NP (NDs)
Methylene Chloride (ug/L)	MW-20	2.5	0.699	5	No	8	87.5	No	0.004	NP (NDs)
Methylene Chloride (ug/L)	MW-4	2.5	0.397	5	No	8	75	No	0.004	NP (NDs)
Methylene Chloride (ug/L)	MW-6	2.5	0.418	5	No	8	87.5	No	0.004	NP (NDs)
Nickel (mg/L)	MW-10 (bg)	0.005	0.00128	0.1	No	7	85.71	No	0.008	NP (NDs)
Nickel (mg/L)	MW-15	0.01678	0.004149	0.1	No	7	0	No	0.01	Param.
Nickel (mg/L)	MW-19	0.07972	0.03111	0.1	No	6	0	No	0.01	Param.
Nickel (mg/L)	MW-20	0.0274	-0.003433	0.1	No	7	0	No	0.01	Param.
Nickel (mg/L)	MW-4	0.01127	0.0008389	0.1	No	7	0	No	0.01	Param.
Nickel (mg/L)	MW-6	0.1134	0.04415	0.1	No	7	0	No	0.01	Param.
Selenium (mg/L)	MW-8	0.006994	0.00276	0.05	No	7	0	No	0.01	Param.
Tetrachloroethene (ug/L)	MW-6	2.624	0.8013	5	No	8	0	No	0.01	Param.
Thallium (mg/L)	MW-19	0.0005	0.000133	0.002	No	6	66.67	No	0.0155	NP (NDs)
Thallium (mg/L)	MW-6	0.0005	0.000091	0.002	No	7	85.71	No	0.008	NP (NDs)
Toluene (ug/L)	MW-10 (bg)	0.5	0.163	1000	No	7	85.71	No	0.008	NP (NDs)
Toluene (ug/L)	MW-15	0.5	0.153	1000	No	7	71.43	No	0.008	NP (NDs)
Toluene (ug/L)	MW-19	0.518	0.216	1000	No	6	50	No	0.0155	NP (normality)
Toluene (ug/L)	MW-20	0.518	0.5	1000	No	7	71.43	No	0.008	NP (NDs)
Toluene (ug/L)	MW-4	0.5	0.227	1000	No	7	85.71	No	0.008	NP (NDs)
Toluene (ug/L)	MW-8	0.5	0.174	1000	No	7	85.71	No	0.008	NP (NDs)
Trichloroethene (ug/L)	MW-20	0.5	0.406	5	No	8	87.5	No	0.004	NP (NDs)
Trichloroethene (ug/L)	MW-6	3.349	1.416	5	No	8	0	No	0.01	Param.
Vanadium (mg/L)	MW-19	0.001548	0.001012	0.035	No	6	50	No	0.01	Param.
Vanadium (mg/L)	MW-20	0.001751	0.0008793	0.035	No	7	42.86	No	0.01	Param.
Vinyl Chloride (ug/L)	MW-20	2.27	0.248	2	No	8	62.5	No	0.004	NP (NDs)
Vinyl Chloride (ug/L)	MW-6	0.5	0.227	2	No	8	62.5	No	0.004	NP (NDs)
Xylenes, total (ug/L)	MW-10 (bg)	1.5	0.247	10000	No	7	85.71	No	0.008	NP (NDs)
Xylenes, total (ug/L)	MW-15	1.5	0.184	10000	No	7	85.71	No	0.008	NP (NDs)
Xylenes, total (ug/L)	MW-19	1.5	0.17	10000	No	6	66.67	No	0.0155	NP (NDs)
Xylenes, total (ug/L)	MW-20	1.5	0.153	10000	No	7	71.43	No	0.008	NP (NDs)
Xylenes, total (ug/L)	MW-4	1.5	0.204	10000	No	7	85.71	No	0.008	NP (NDs)
Zinc (mg/L)	MW-15	0.1743	-0.01153	2	No	7	14.29	No	0.01	Param.
Zinc (mg/L)	MW-19	0.257	0.01	2	No	6	50	No	0.0155	NP (normality)
Zinc (mg/L)	MW-20	1.765	0.105	2	No	7	0	No	0.01	Param.
Zinc (mg/L)	MW-6	0.03734	0.01066	2	No	7	0	No	0.01	Param.

Parametric Confidence Interval

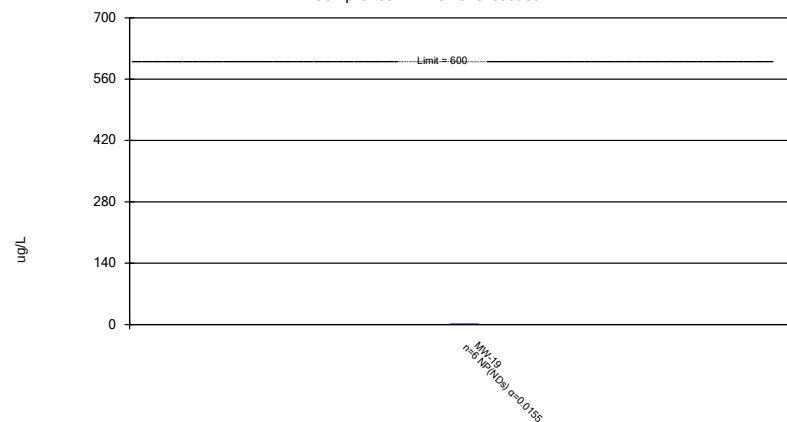
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 1,1-Dichloroethane Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Inter
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Non-Parametric Confidence Interval

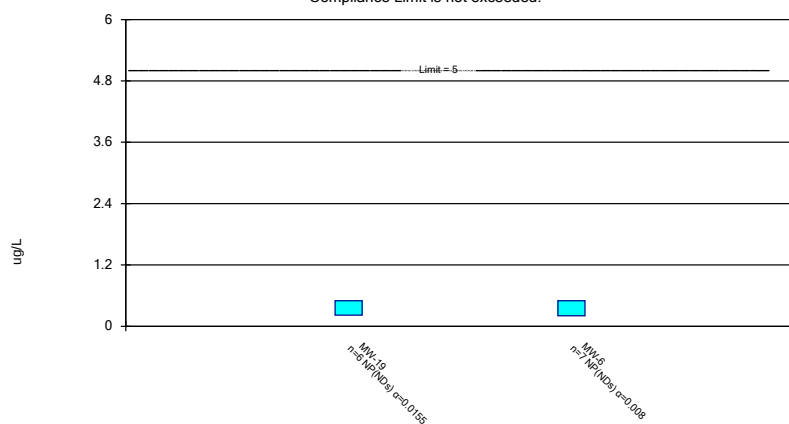
Compliance Limit is not exceeded.



Constituent: 1,2-Dichlorobenzene Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Inte
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Non-Parametric Confidence Interval

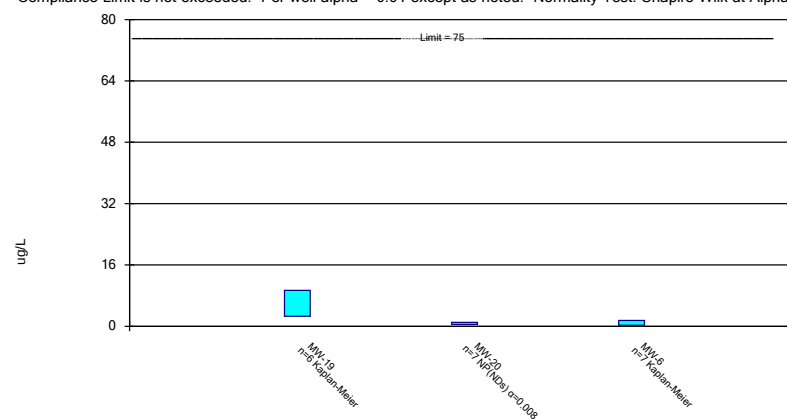
Compliance Limit is not exceeded.



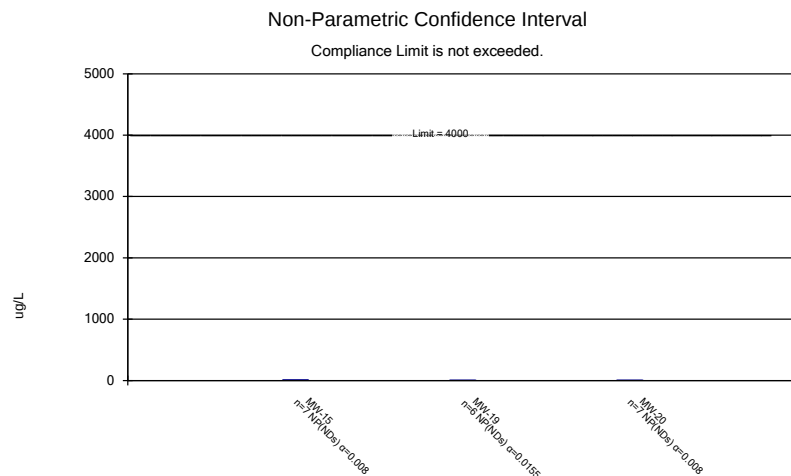
Constituent: 1,2-Dichloroethane Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Inter
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric and Non-Parametric (NP) Confidence Interval

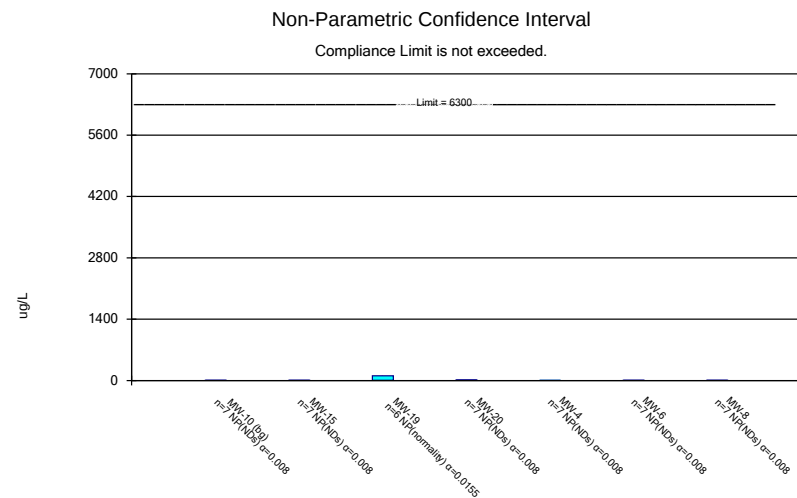
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



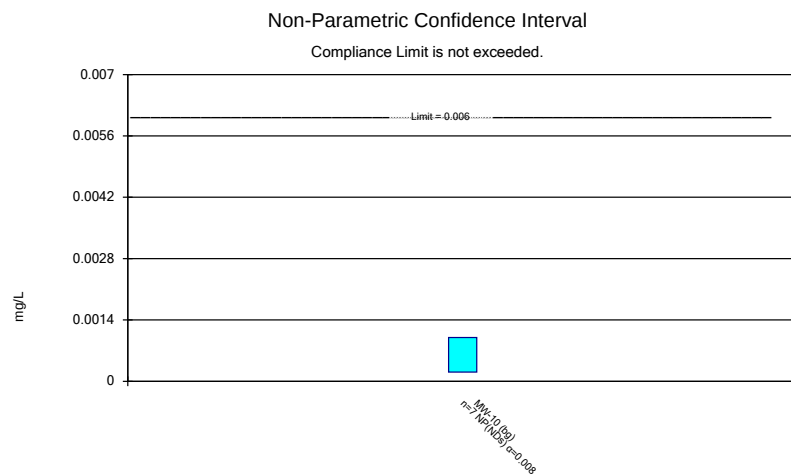
Constituent: 1,4-Dichlorobenzene Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Inte
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



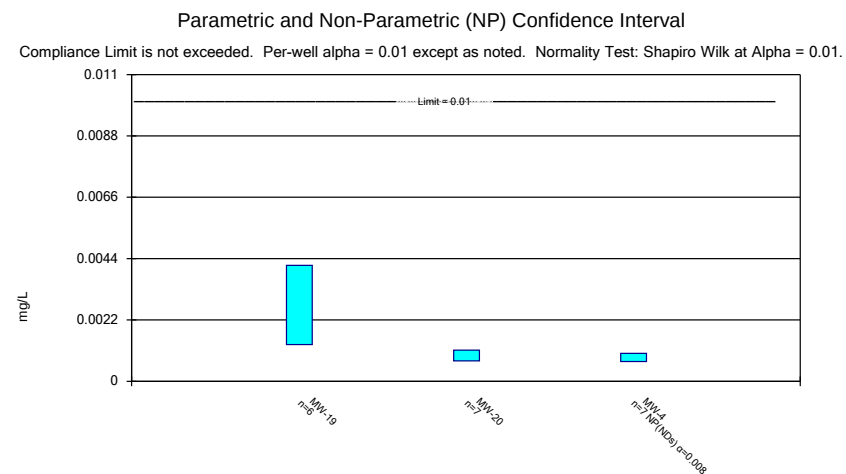
Constituent: 2-Butanone Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



Constituent: Acetone Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



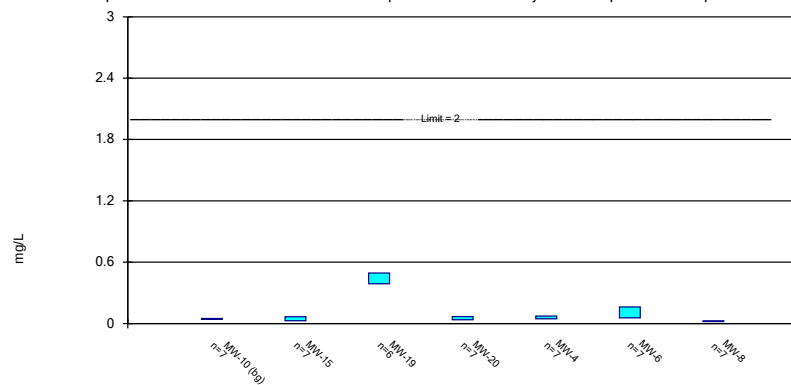
Constituent: Antimony Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



Constituent: Arsenic Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric Confidence Interval

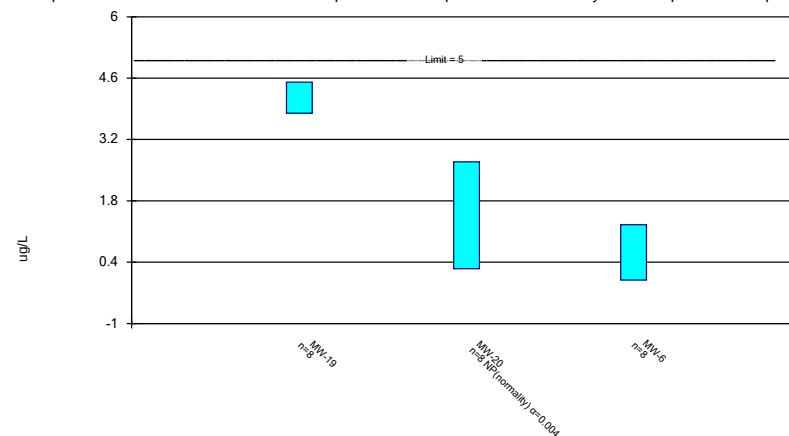
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric and Non-Parametric (NP) Confidence Interval

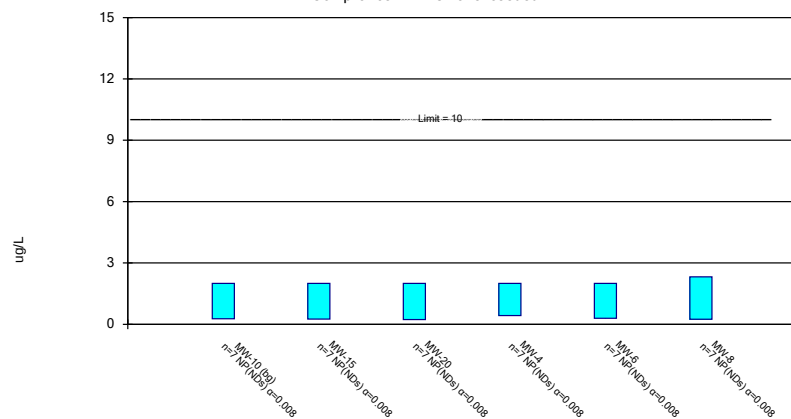
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Benzene Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Non-Parametric Confidence Interval

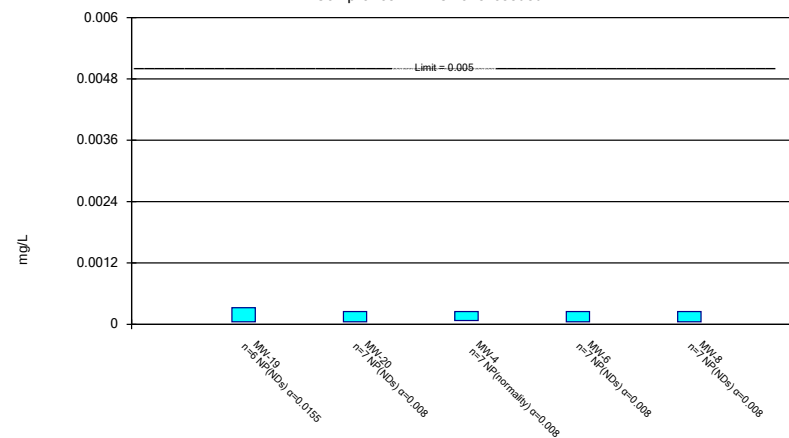
Compliance Limit is not exceeded.



Constituent: Bromomethane Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Non-Parametric Confidence Interval

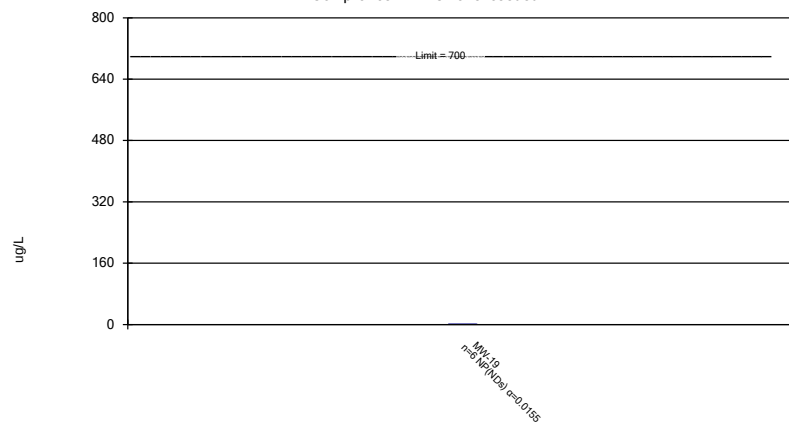
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Non-Parametric Confidence Interval

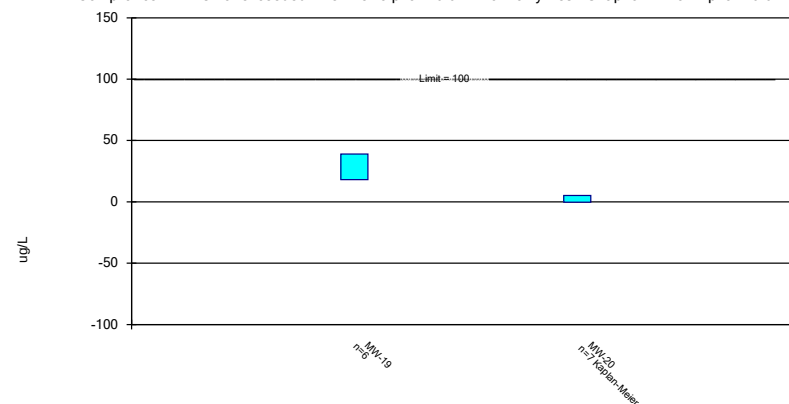
Compliance Limit is not exceeded.



Constituent: Carbon Disulfide Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric Confidence Interval

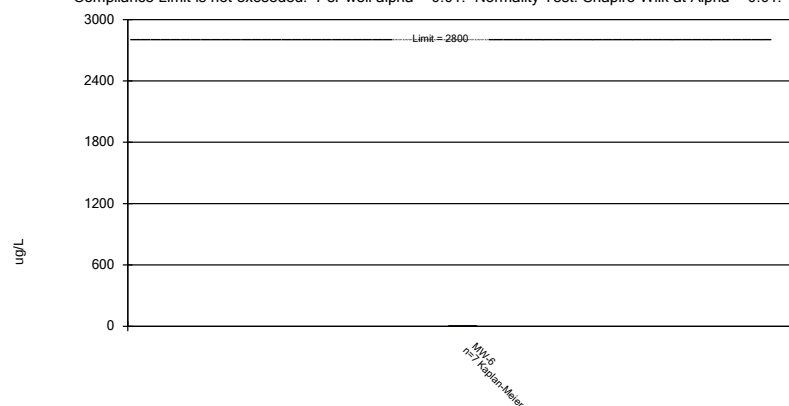
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Chlorobenzene Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric Confidence Interval

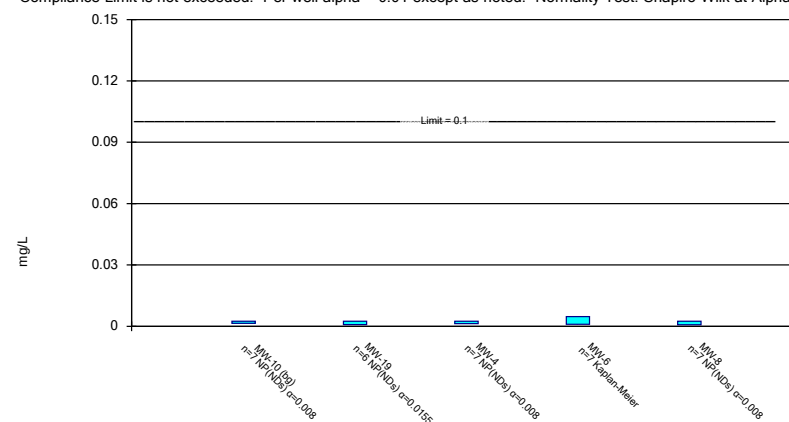
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Chloroethane Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric and Non-Parametric (NP) Confidence Interval

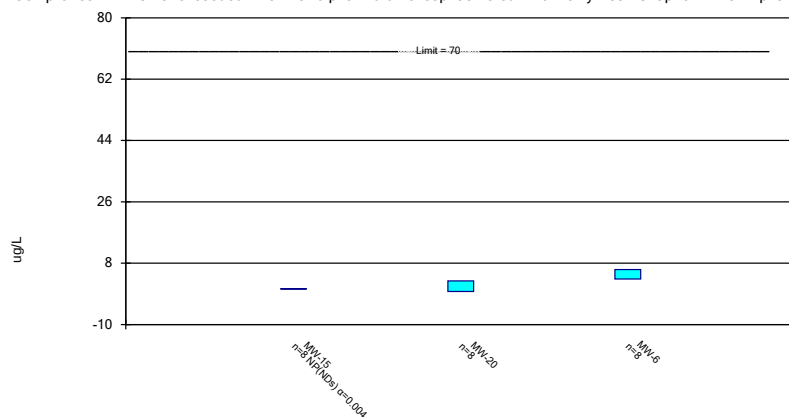
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Chromium Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric and Non-Parametric (NP) Confidence Interval

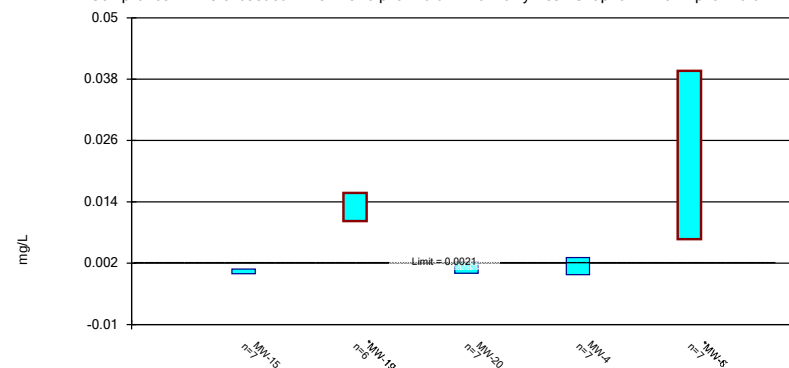
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: cis-1,2-Dichloroethene Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence In
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric Confidence Interval

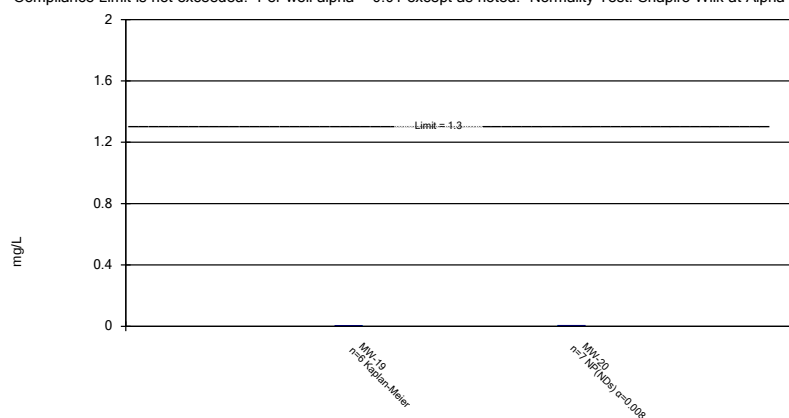
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cobalt Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric and Non-Parametric (NP) Confidence Interval

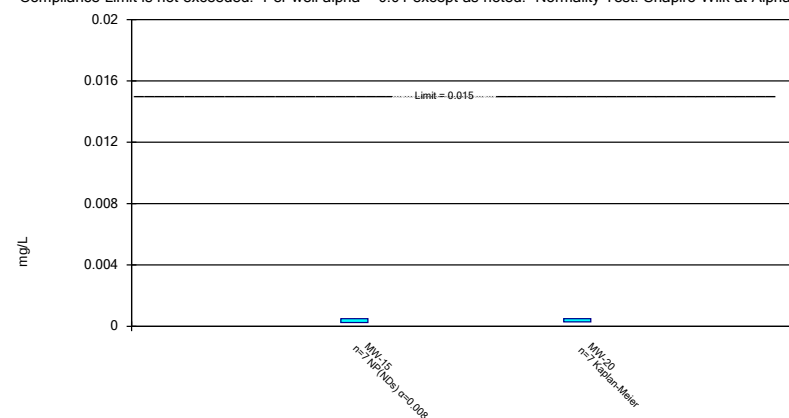
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Copper Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric and Non-Parametric (NP) Confidence Interval

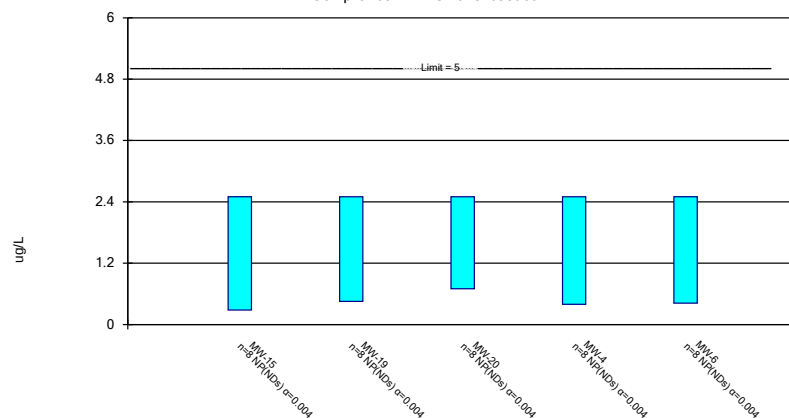
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Lead Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Non-Parametric Confidence Interval

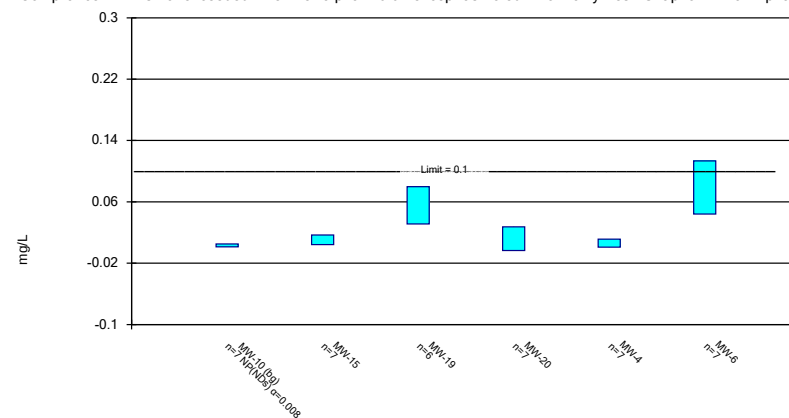
Compliance Limit is not exceeded.



Constituent: Methylene Chloride Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Inter
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric and Non-Parametric (NP) Confidence Interval

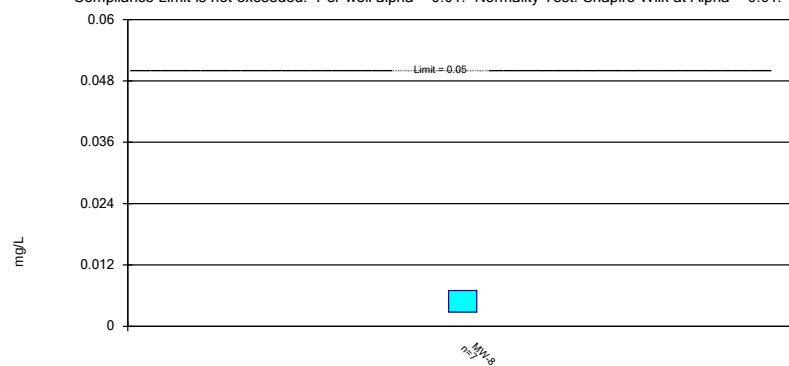
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric Confidence Interval

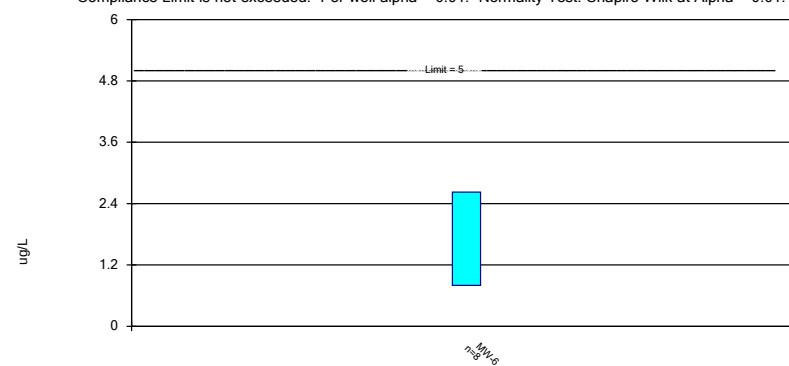
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Selenium Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric Confidence Interval

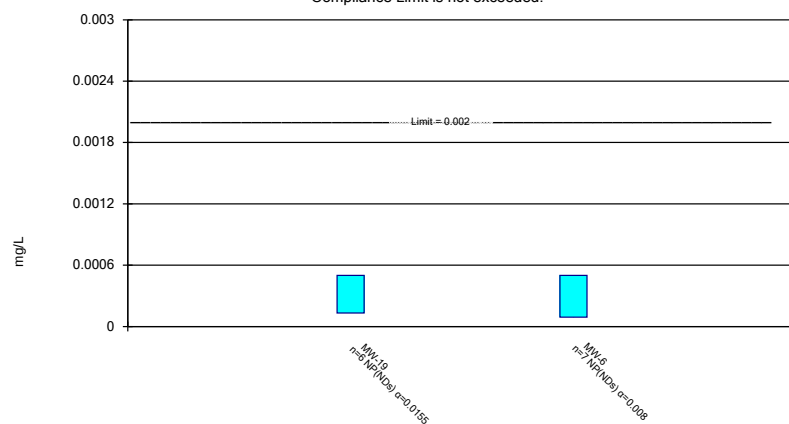
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Tetrachloroethene Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interv
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Non-Parametric Confidence Interval

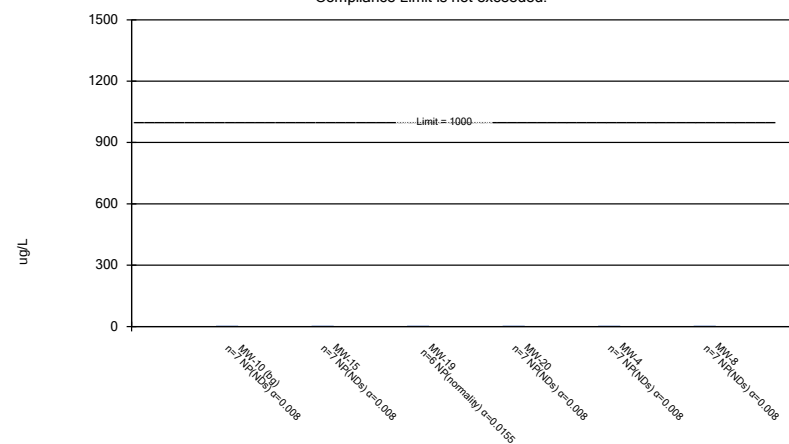
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Non-Parametric Confidence Interval

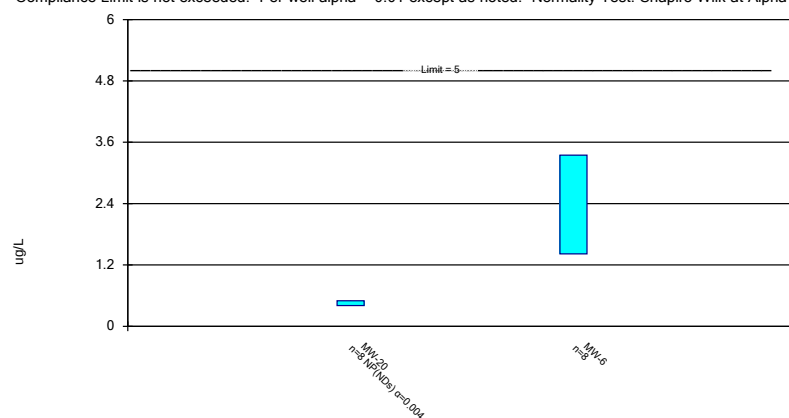
Compliance Limit is not exceeded.



Constituent: Toluene Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric and Non-Parametric (NP) Confidence Interval

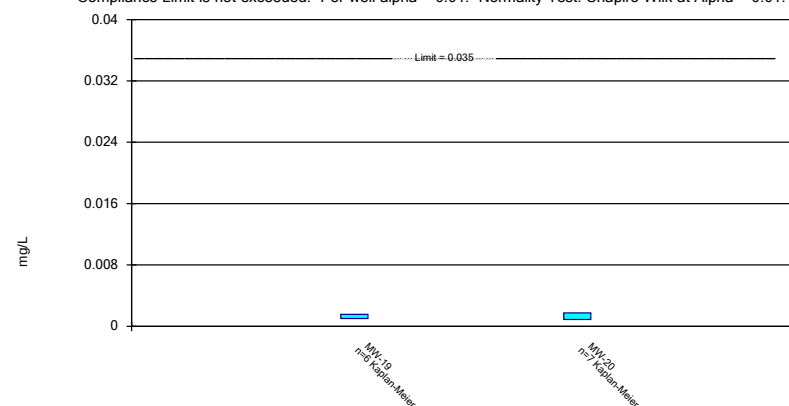
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



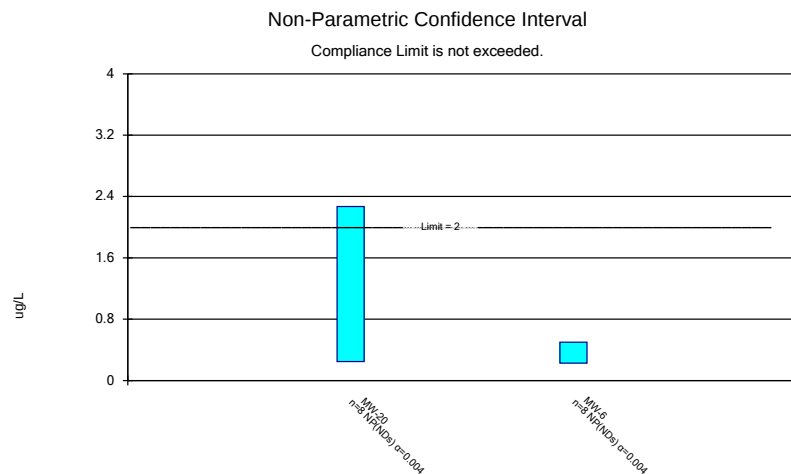
Constituent: Trichloroethene Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Parametric Confidence Interval

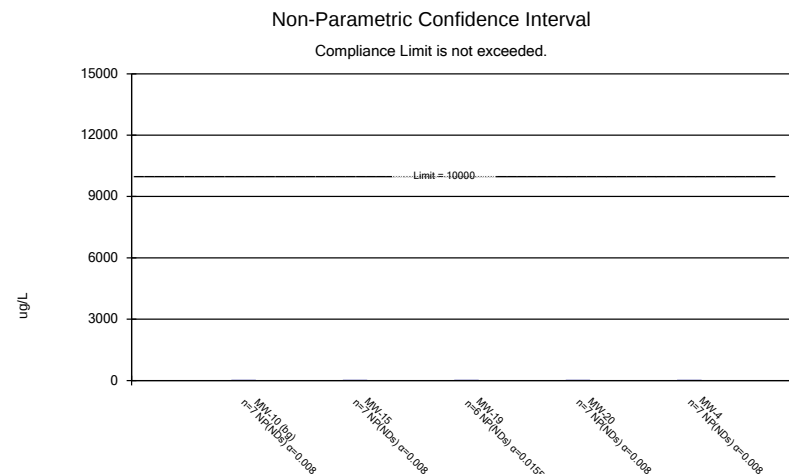
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



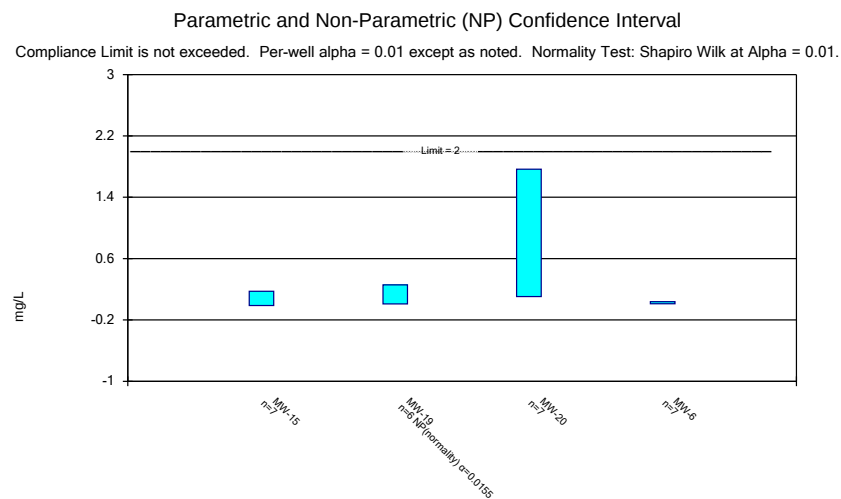
Constituent: Vanadium Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



Constituent: Vinyl Chloride Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



Constituent: Xylenes, total Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



Constituent: Zinc Analysis Run 10/20/2023 11:14 AM View: 2023AWQR - Confidence Interval
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

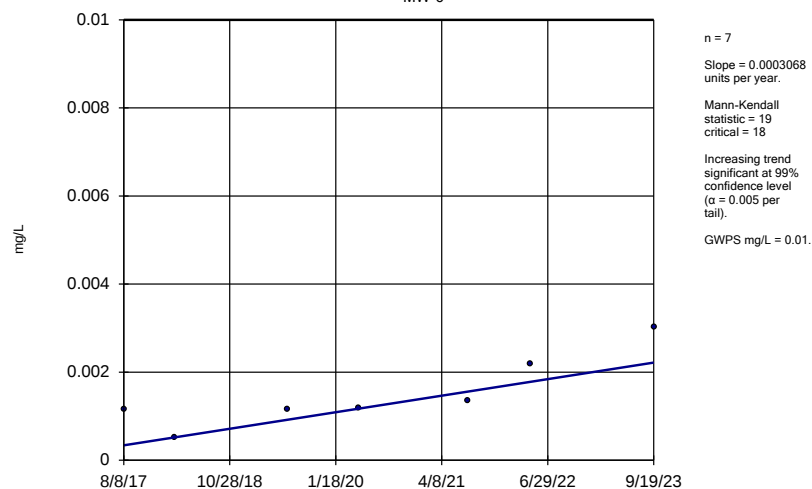
Theil Sen/Trend Test

Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR Printed 10/20/2023, 11:22 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-6	0.0003068	19	18	Yes	7	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-19	-0.108	-22	-21	Yes	8	0	0.01	NP

Sen's Slope Estimator

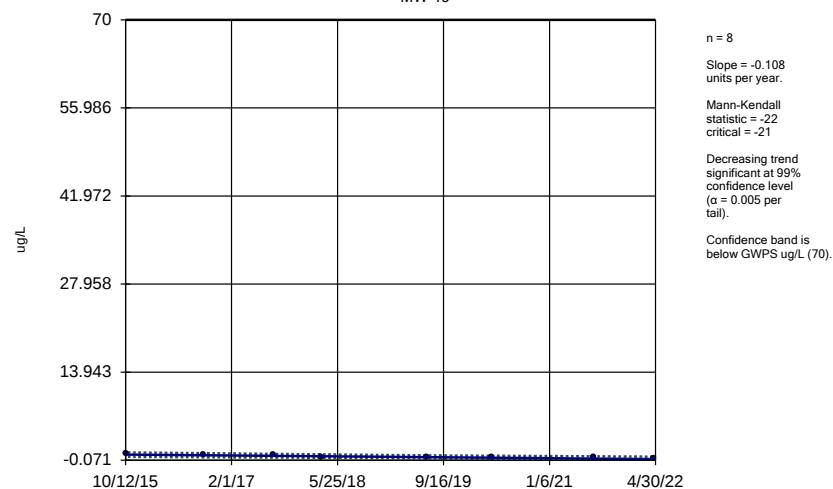
MW-6



Constituent: Arsenic Analysis Run 10/20/2023 11:20 AM View: 2023AWQR - Theil Sen
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope and 99% Confidence Band

MW-19



Constituent: cis-1,2-Dichloroethene Analysis Run 10/20/2023 11:20 AM View: 2023AWQR - Theil Sen
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Appendix G-1

CVOC Mann-Kendall Trending Summary Table and Graphs

Trend Test

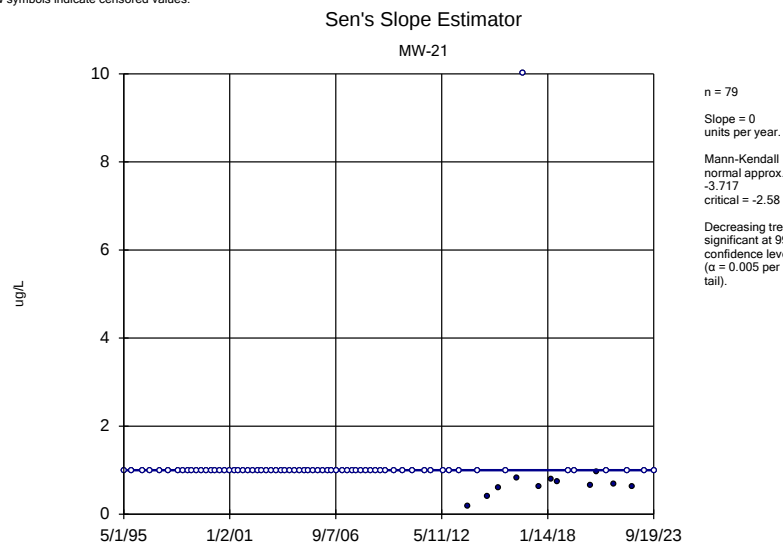
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC Printed 10/24/2023, 5:42 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethene (ug/L)	MW-21	0	-3.717	-2.58	Yes	79	86.08	0.01	NP
1,1-Dichloroethene (ug/L)	MW-24	0	-1.949	-2.58	No	78	75.64	0.01	NP
1,1-Dichloroethene (ug/L)	MW-27	0	-64	-167	No	33	87.88	0.01	NP
1,1-Dichloroethene (ug/L)	MW-13	0	0.5298	2.58	No	79	88.61	0.01	NP
Benzene (ug/L)	MW-21	-0.1506	-8.665	-2.58	Yes	79	2.532	0.01	NP
Benzene (ug/L)	MW-23	-0.00636	-2.395	-2.58	No	72	27.78	0.01	NP
Benzene (ug/L)	MW-24	-0.1564	-7.579	-2.58	Yes	79	18.99	0.01	NP
Benzene (ug/L)	MW-27	-0.0444	-279	-176	Yes	34	5.882	0.01	NP
Benzene (ug/L)	MW-29	0	-9	-30	No	10	90	0.01	NP
Benzene (ug/L)	MW-31	0	1	30	No	10	90	0.01	NP
Benzene (ug/L)	MW-13	-0.06889	-4.757	-2.58	Yes	79	6.329	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-21	5.066	6.253	2.58	Yes	79	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-22	0	0.5774	2.58	No	48	91.67	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-23	0.872	2.635	2.58	Yes	72	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-24	-77.01	-8.251	-2.58	Yes	79	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-25	0.2564	438	206	Yes	38	57.89	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-26	0	-26	-81	No	20	85	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-27	-8.04	-140	-176	No	34	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-28	0	4	30	No	10	70	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-29	8.769	18	30	No	10	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-30	0.1253	35	30	Yes	10	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-31	-0.1005	-27	-30	No	10	10	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-32	0	15	43	No	13	84.62	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-35	0.03166	11	18	No	7	71.43	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-37	0	8	25	No	9	88.89	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-13	39.95	9.094	2.58	Yes	75	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-16R	0	8	30	No	10	70	0.01	NP
Methylene Chloride (ug/L)	MW-21	0	-1.35	-2.58	No	72	95.83	0.01	NP
Methylene Chloride (ug/L)	MW-22	0	-1.141	-2.58	No	41	97.56	0.01	NP
Methylene Chloride (ug/L)	MW-23	0	-3.501	-2.58	Yes	59	74.58	0.01	NP
Methylene Chloride (ug/L)	MW-24	-0.75	-4.204	-2.58	Yes	67	38.81	0.01	NP
Methylene Chloride (ug/L)	MW-25	0	-47	-206	No	38	94.74	0.01	NP
Methylene Chloride (ug/L)	MW-26	0	-14	-81	No	20	85	0.01	NP
Methylene Chloride (ug/L)	MW-27	0	-52	-176	No	34	88.24	0.01	NP
Methylene Chloride (ug/L)	MW-28	0	3	30	No	10	90	0.01	NP
Methylene Chloride (ug/L)	MW-29	0	18	30	No	10	70	0.01	NP
Methylene Chloride (ug/L)	MW-30	0	18	30	No	10	70	0.01	NP
Methylene Chloride (ug/L)	MW-31	0	8	30	No	10	70	0.01	NP
Methylene Chloride (ug/L)	MW-32	0	12	43	No	13	92.31	0.01	NP
Methylene Chloride (ug/L)	MW-34	0	6	18	No	7	85.71	0.01	NP
Methylene Chloride (ug/L)	MW-35	0.1697	11	18	No	7	71.43	0.01	NP
Methylene Chloride (ug/L)	MW-36	0	6	18	No	7	85.71	0.01	NP
Methylene Chloride (ug/L)	MW-37	0	11	25	No	9	77.78	0.01	NP
Methylene Chloride (ug/L)	MW-13	0	-0.4932	-2.58	No	65	83.08	0.01	NP
Tetrachloroethene (ug/L)	MW-21	-0.3037	-9.207	-2.58	Yes	72	20.83	0.01	NP
Tetrachloroethene (ug/L)	MW-23	-0.5696	-9.508	-2.58	Yes	59	25.42	0.01	NP
Tetrachloroethene (ug/L)	MW-24	-0.06661	-2.571	-2.58	No	67	26.87	0.01	NP
Tetrachloroethene (ug/L)	MW-27	-0.08172	-316	-176	Yes	34	14.71	0.01	NP
Tetrachloroethene (ug/L)	MW-13	-0.3616	-7.258	-2.58	Yes	65	21.54	0.01	NP
trans-1,2-Dichloroethene (ug/L)	MW-21	0.004528	2.072	2.58	No	76	36.84	0.01	NP

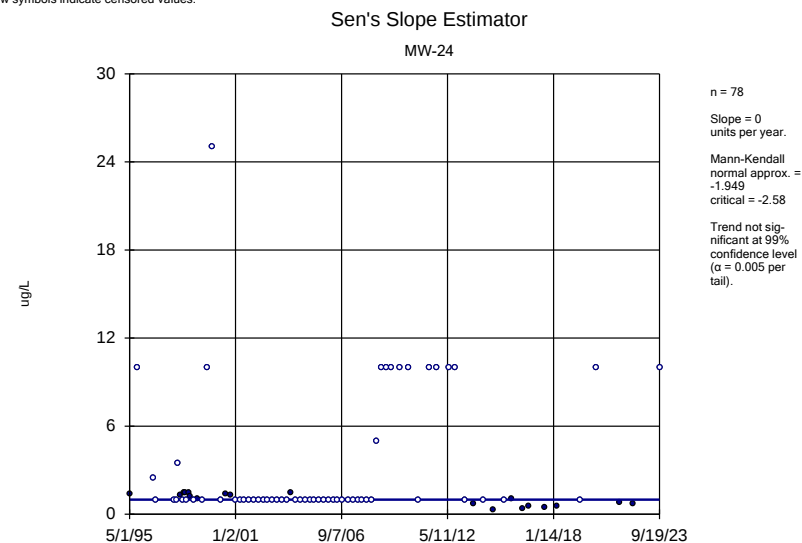
Trend Test

Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC Printed 10/24/2023, 5:42 PM

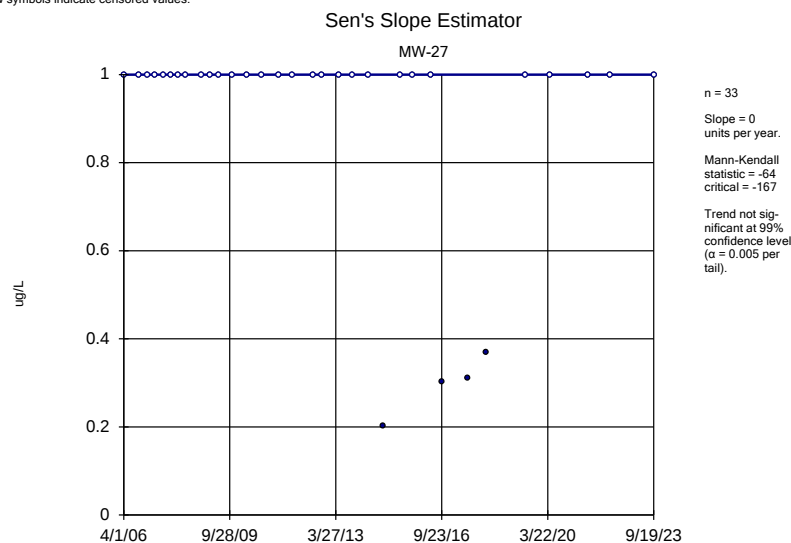
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
trans-1,2-Dichloroethene (ug/L)	MW-23	0	-2.822	-2.58	Yes	72	80.56	0.01	NP
trans-1,2-Dichloroethene (ug/L)	MW-24	-0.4332	-3.957	-2.58	Yes	76	11.84	0.01	NP
trans-1,2-Dichloroethene (ug/L)	MW-25	0	4	206	No	38	89.47	0.01	NP
trans-1,2-Dichloroethene (ug/L)	MW-27	-0.1998	-331	-176	Yes	34	5.882	0.01	NP
trans-1,2-Dichloroethene (ug/L)	MW-29	0.1796	32	30	Yes	10	10	0.01	NP
trans-1,2-Dichloroethene (ug/L)	MW-13	0.1362	5.751	2.58	Yes	72	16.67	0.01	NP
Trichloroethene (ug/L)	MW-21	-0.3426	-1.312	-2.58	No	79	0	0.01	NP
Trichloroethene (ug/L)	MW-22	0	1.083	2.58	No	48	95.83	0.01	NP
Trichloroethene (ug/L)	MW-23	-0.5358	-9.511	-2.58	Yes	72	33.33	0.01	NP
Trichloroethene (ug/L)	MW-24	-1.549	-6.854	-2.58	Yes	79	0	0.01	NP
Trichloroethene (ug/L)	MW-25	0	58	206	No	38	81.58	0.01	NP
Trichloroethene (ug/L)	MW-27	-0.6355	-319	-176	Yes	34	0	0.01	NP
Trichloroethene (ug/L)	MW-29	0.5756	23	30	No	10	0	0.01	NP
Trichloroethene (ug/L)	MW-13	1.04	4.027	2.58	Yes	79	0	0.01	NP
Vinyl Chloride (ug/L)	MW-21	3.144	10.02	2.58	Yes	79	1.266	0.01	NP
Vinyl Chloride (ug/L)	MW-23	-0.17	-6.506	-2.58	Yes	72	33.33	0.01	NP
Vinyl Chloride (ug/L)	MW-24	-8.943	-5.762	-2.58	Yes	79	0	0.01	NP
Vinyl Chloride (ug/L)	MW-25	0	17	199	No	37	94.59	0.01	NP
Vinyl Chloride (ug/L)	MW-26	0	17	81	No	20	70	0.01	NP
Vinyl Chloride (ug/L)	MW-27	-9.871	-458	-176	Yes	34	0	0.01	NP
Vinyl Chloride (ug/L)	MW-29	0	2	30	No	10	70	0.01	NP
Vinyl Chloride (ug/L)	MW-30	0	17	30	No	10	80	0.01	NP
Vinyl Chloride (ug/L)	MW-31	0	6	30	No	10	80	0.01	NP
Vinyl Chloride (ug/L)	MW-32	1.759	17	43	No	13	0	0.01	NP
Vinyl Chloride (ug/L)	MW-13	1.999	9.209	2.58	Yes	75	1.333	0.01	NP
Vinyl Chloride (ug/L)	MW-16R	0	-1	-30	No	10	80	0.01	NP



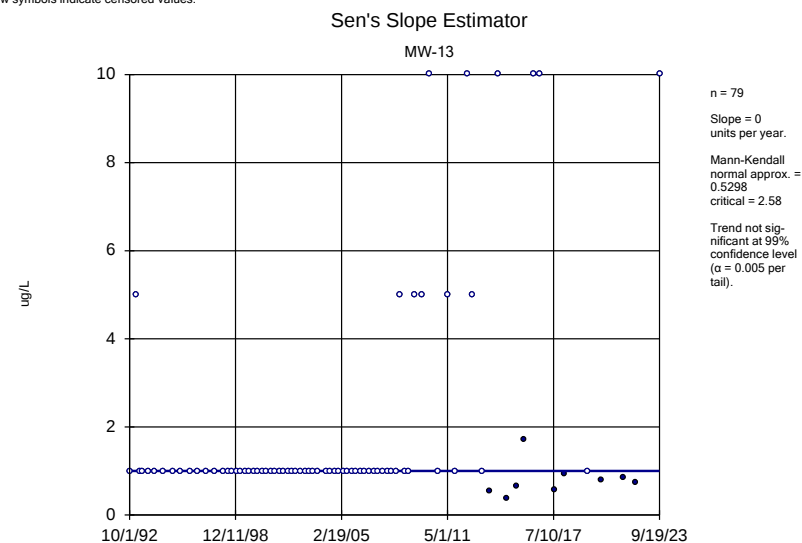
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



Constituent: 1,1-Dichloroethene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp Co
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



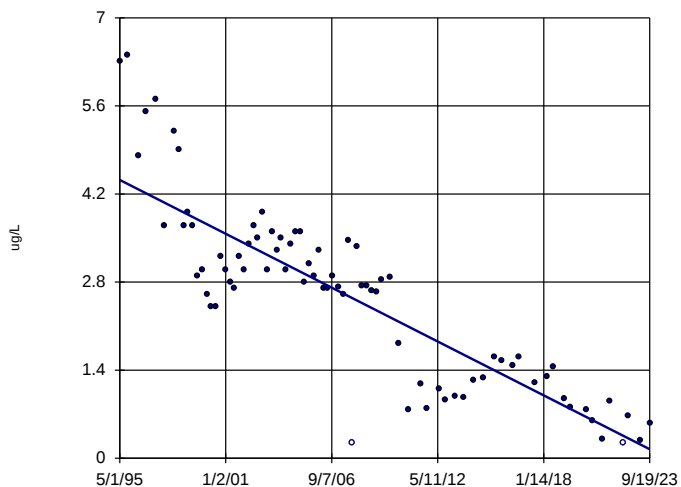
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



Constituent: 1,1-Dichloroethene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp Co
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Sen's Slope Estimator

MW-21

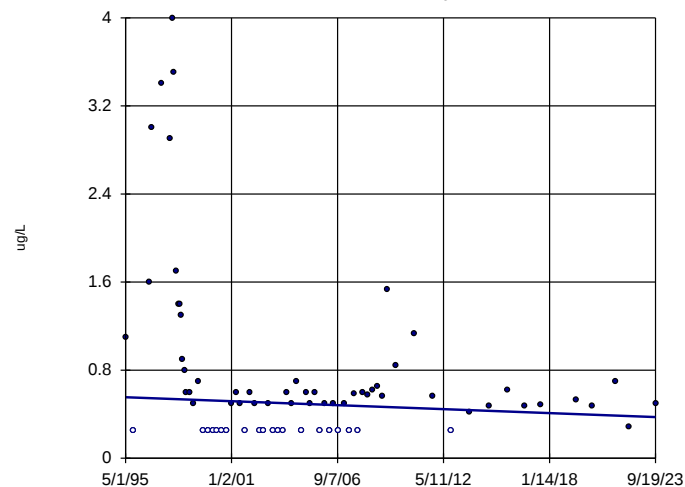


n = 79
Slope = -0.1506
units per year.
Mann-Kendall
normal approx. =
-8.665
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Benzene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp Co
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Sen's Slope Estimator

MW-23

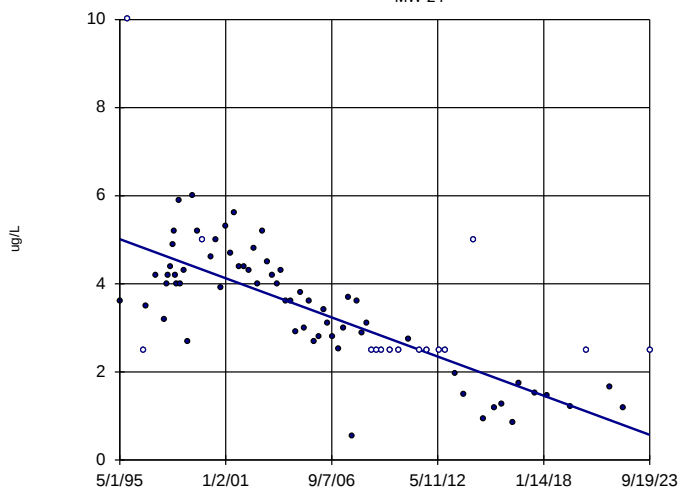


n = 72
Slope = -0.00636
units per year.
Mann-Kendall
normal approx. =
-2.395
critical = -2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Benzene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp Co
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Sen's Slope Estimator

MW-24

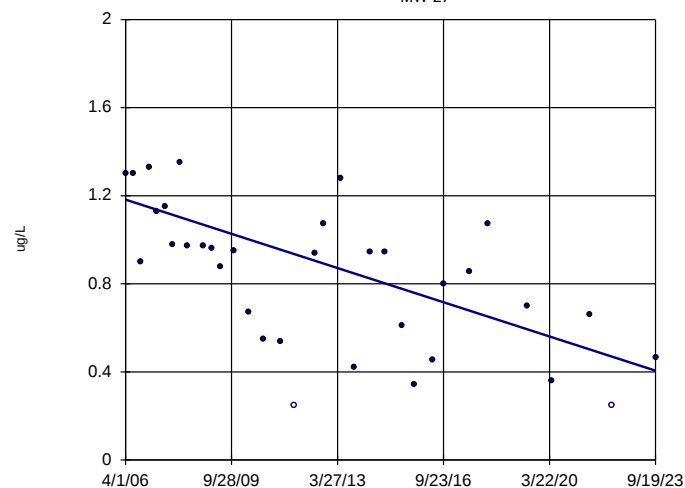


n = 79
Slope = -0.1564
units per year.
Mann-Kendall
normal approx. =
-7.579
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Benzene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp Co
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

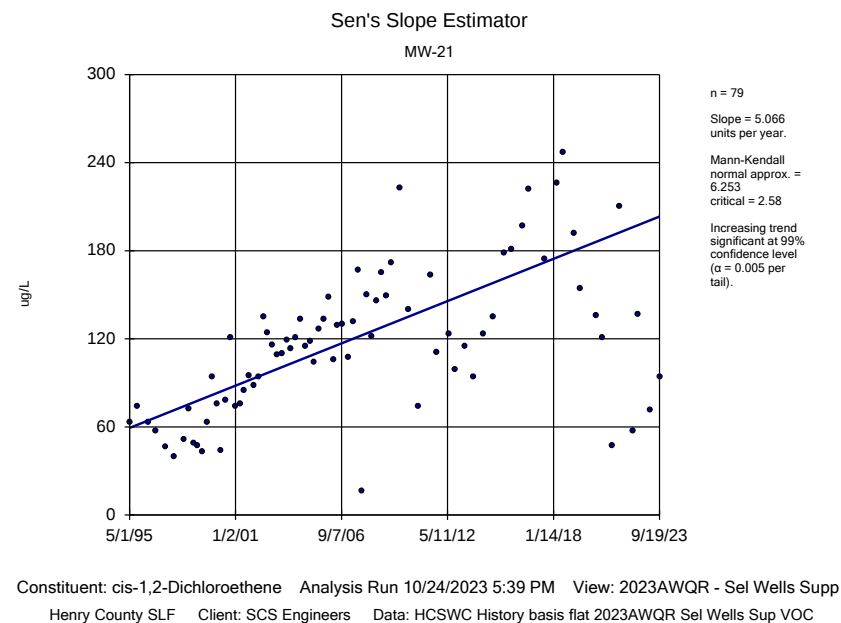
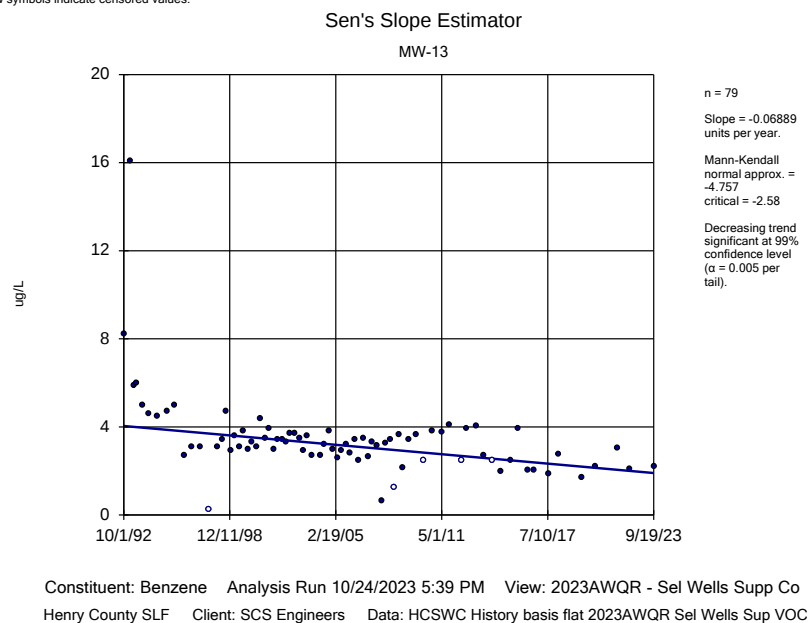
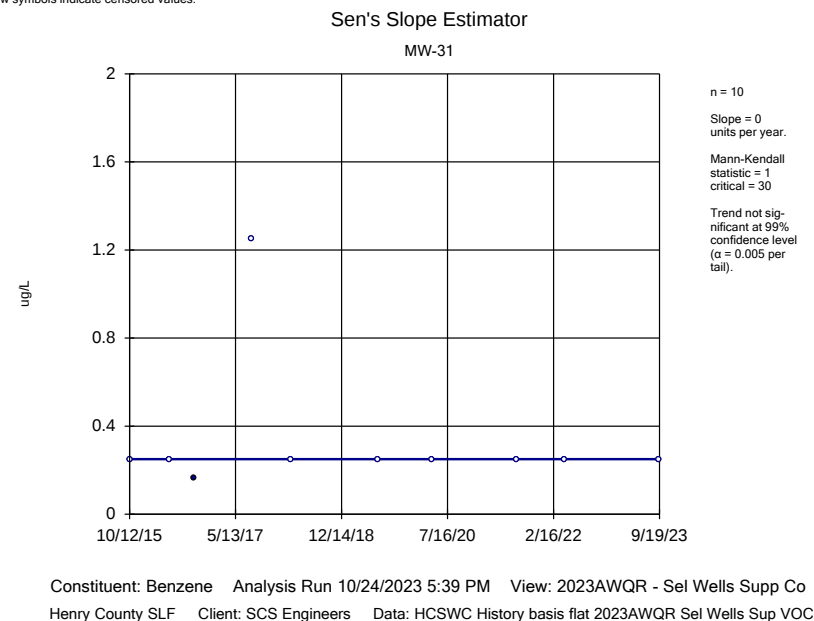
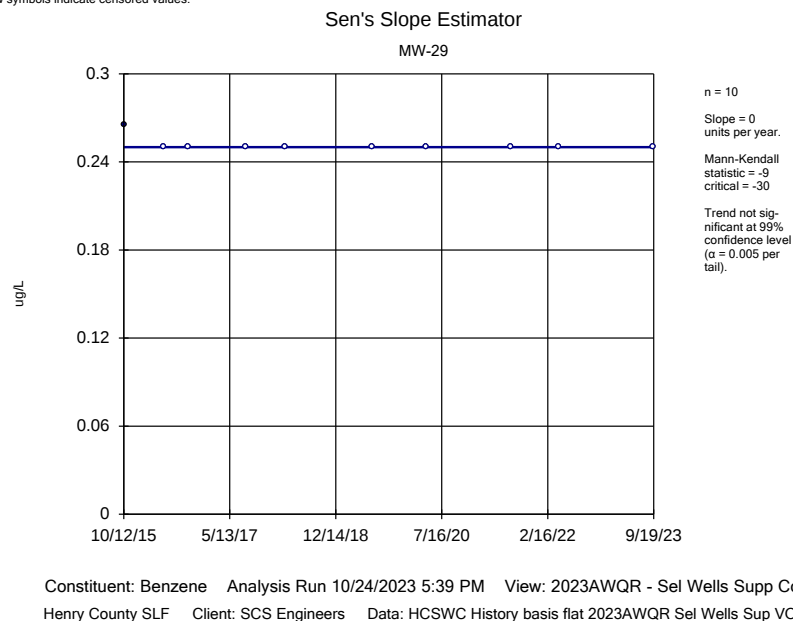
Sen's Slope Estimator

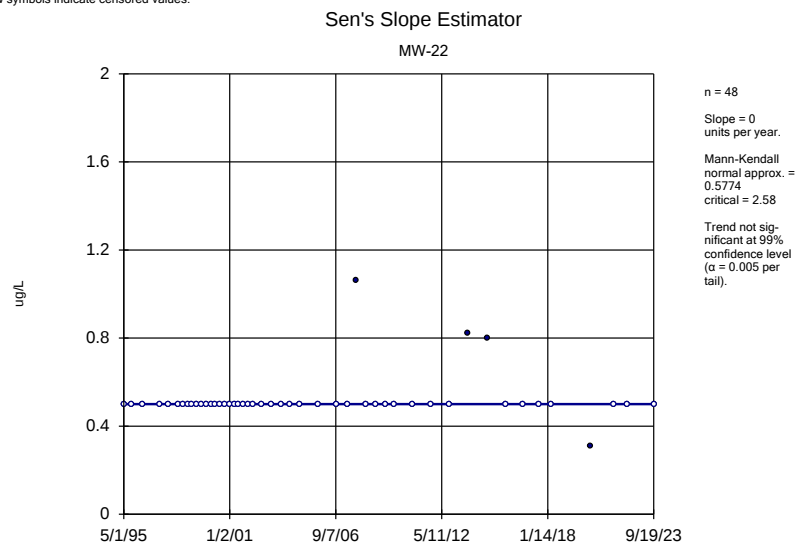
MW-27



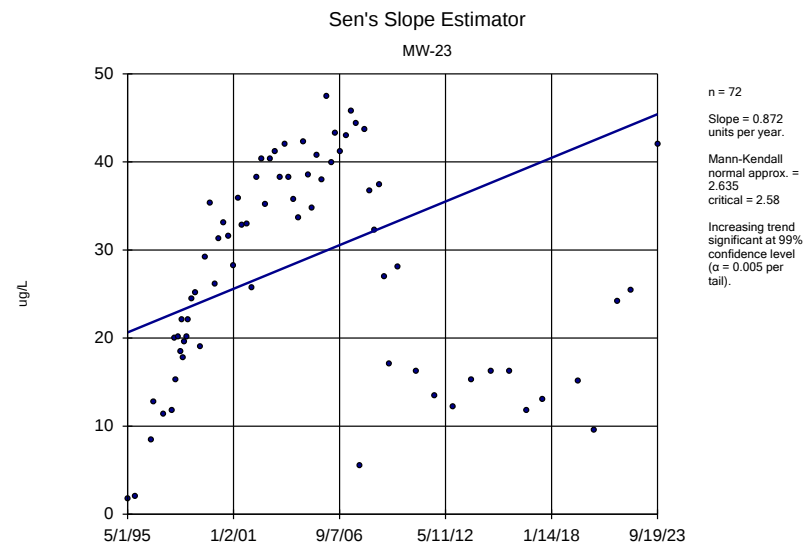
n = 34
Slope = -0.0444
units per year.
Mann-Kendall
statistic = -279
critical = -176
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Benzene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp Co
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

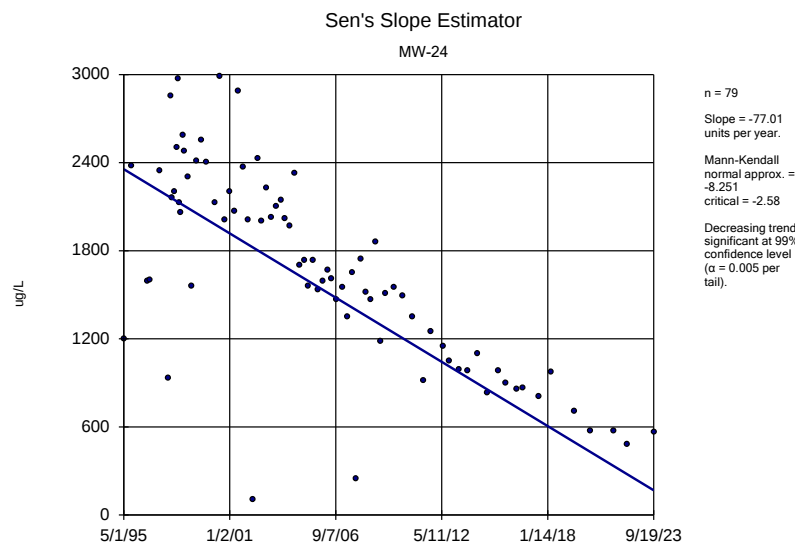




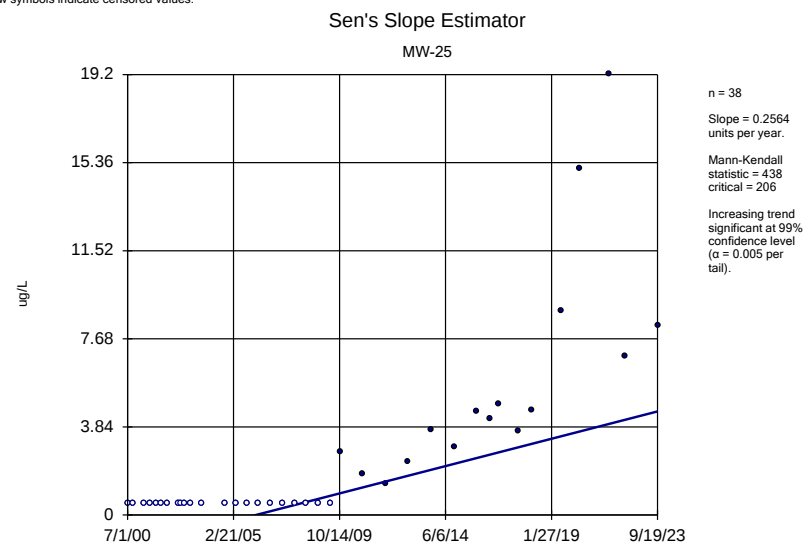
Constituent: cis-1,2-Dichloroethene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



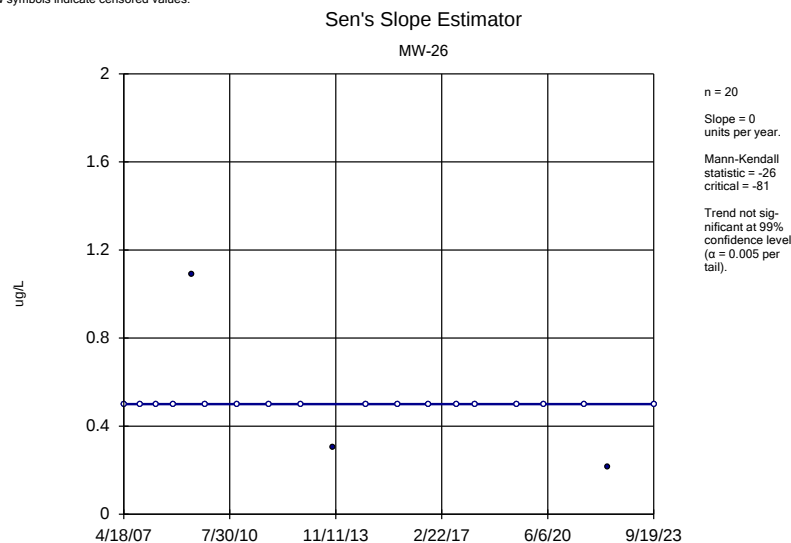
Constituent: cis-1,2-Dichloroethene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



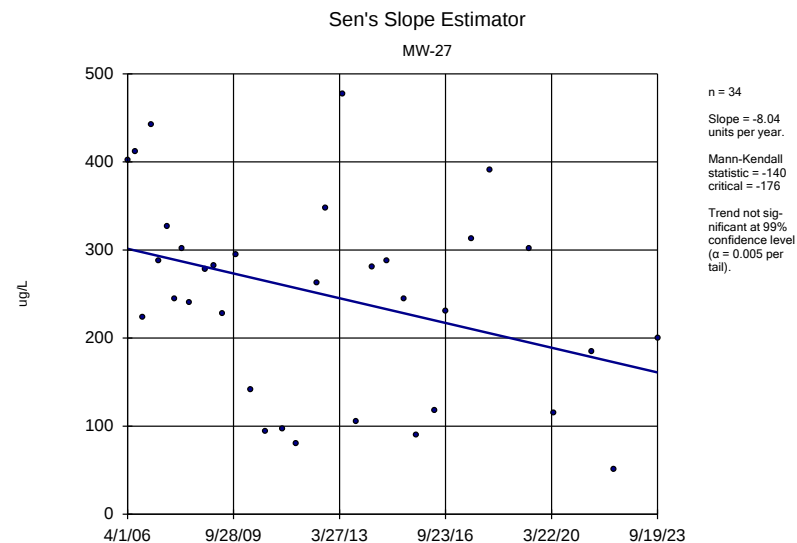
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



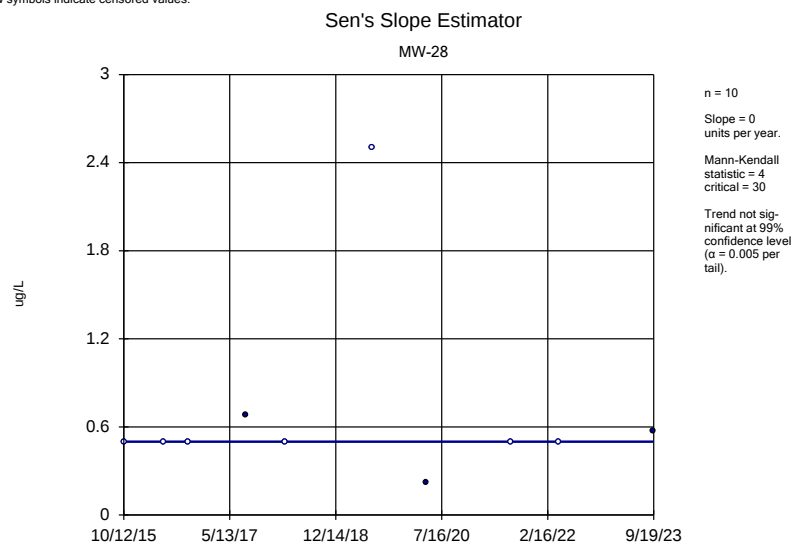
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



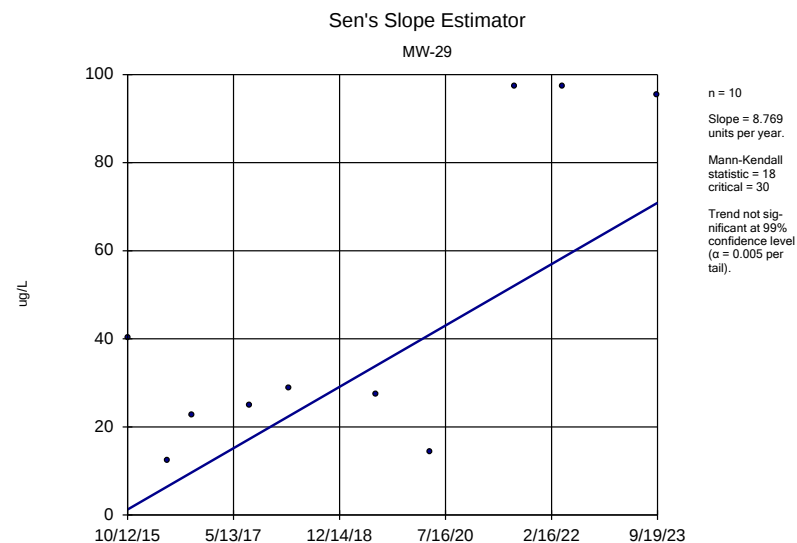
Constituent: cis-1,2-Dichloroethene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



Constituent: cis-1,2-Dichloroethene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



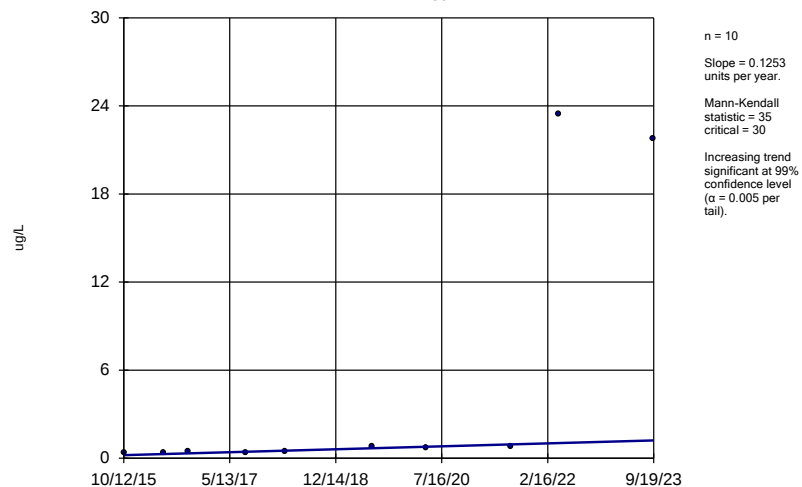
Constituent: cis-1,2-Dichloroethene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

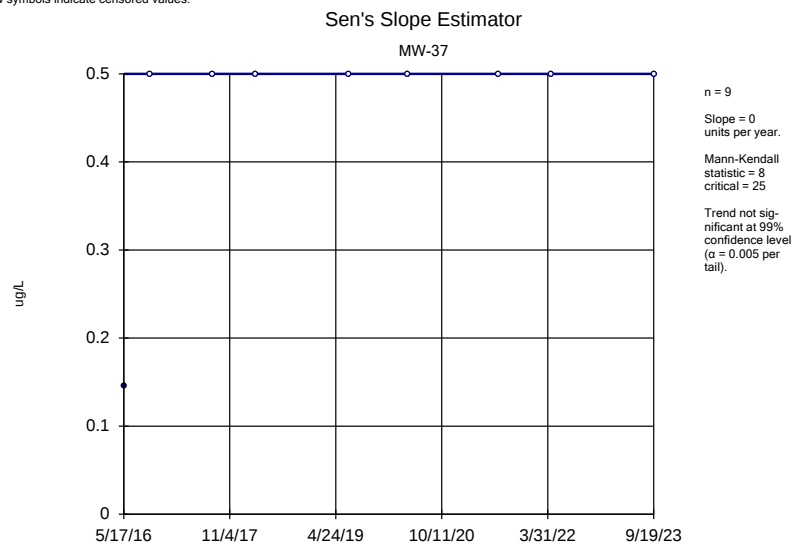


Constituent: cis-1,2-Dichloroethene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

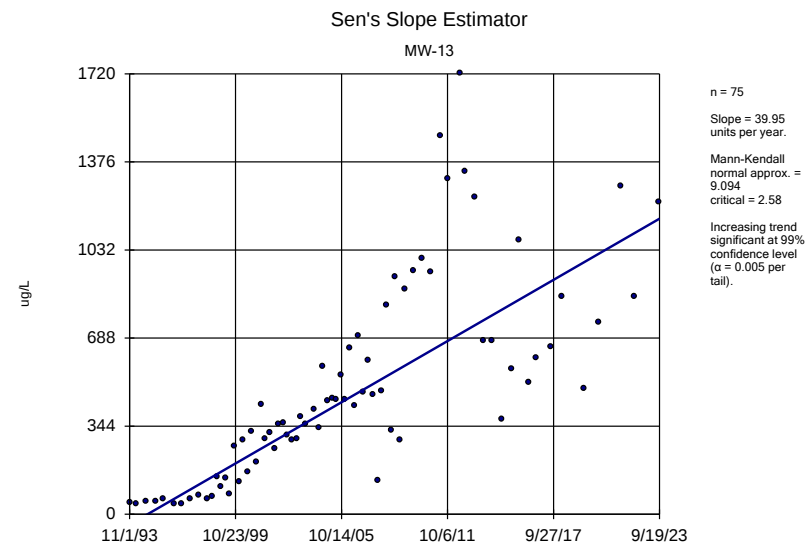
Sen's Slope Estimator

MW-30

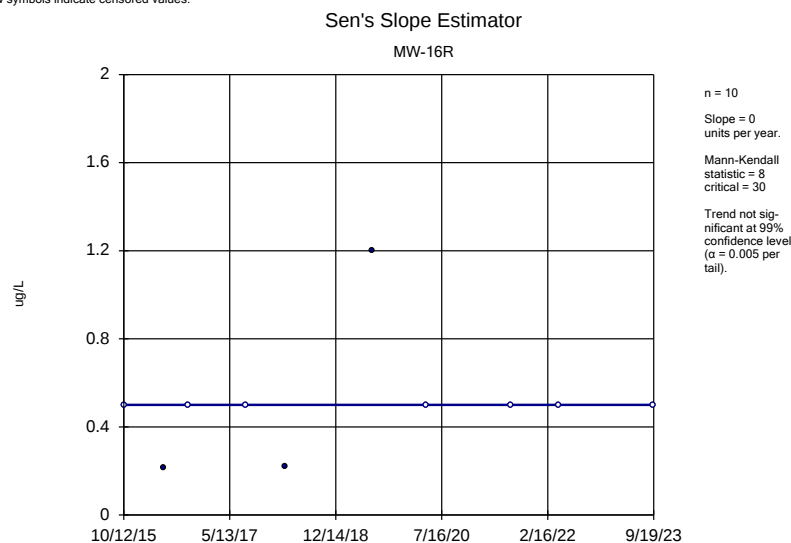




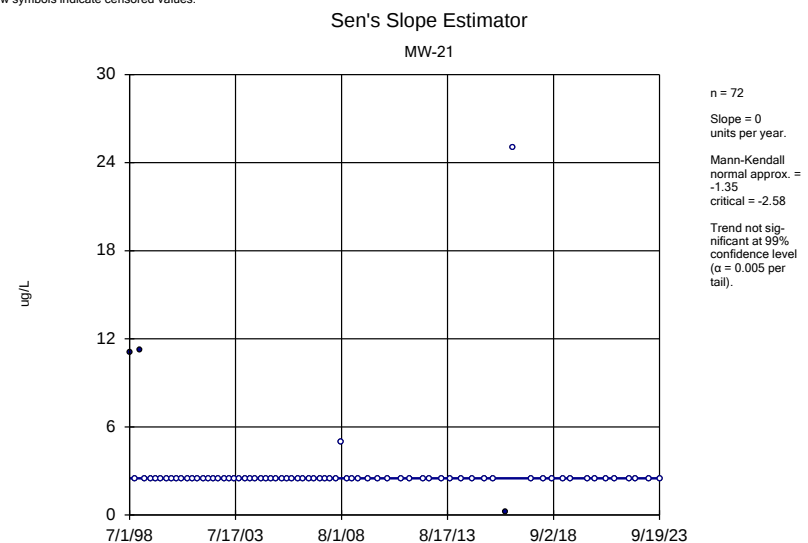
Constituent: cis-1,2-Dichloroethene Analysis Run 10/24/2023 5:39 PM View: 2023AWQR - Sel Wells Supp
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



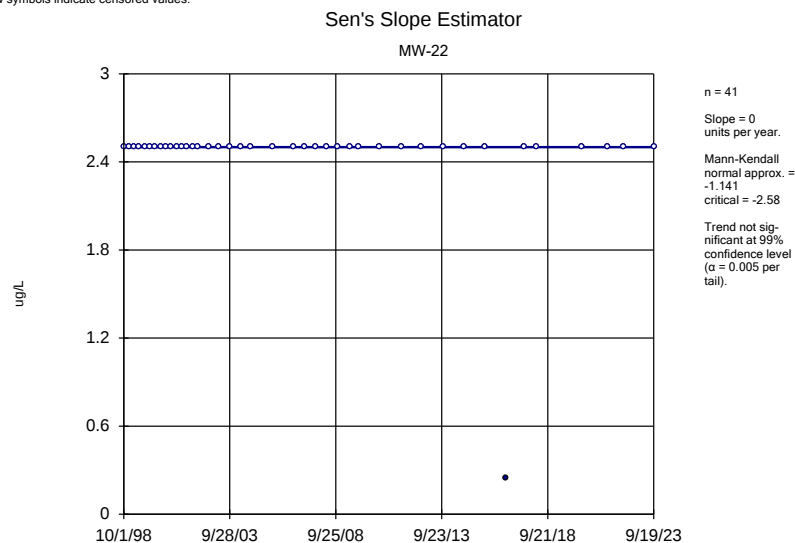
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



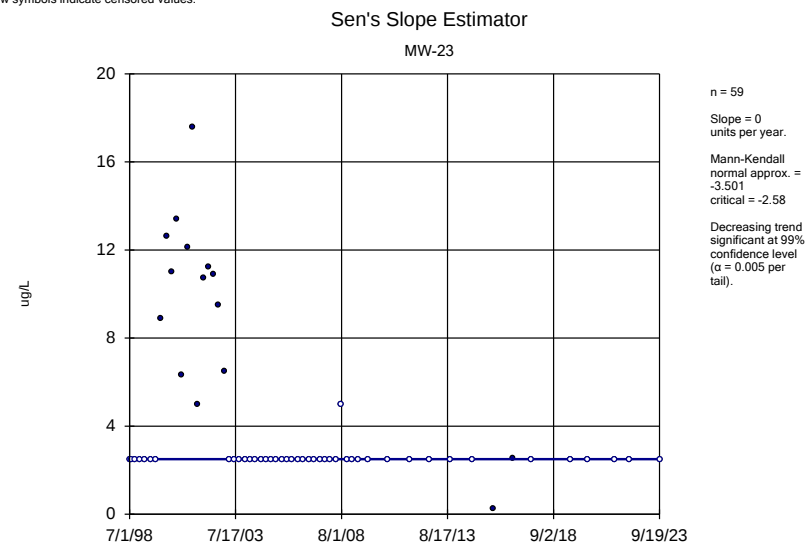
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



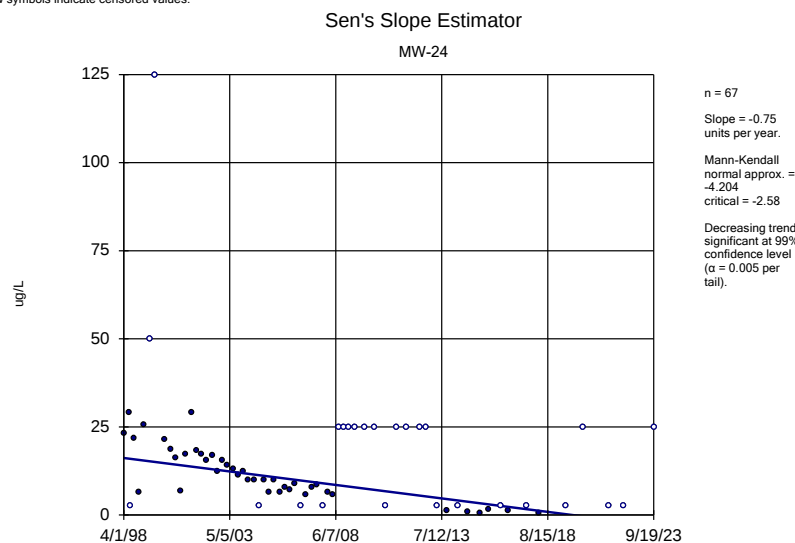
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



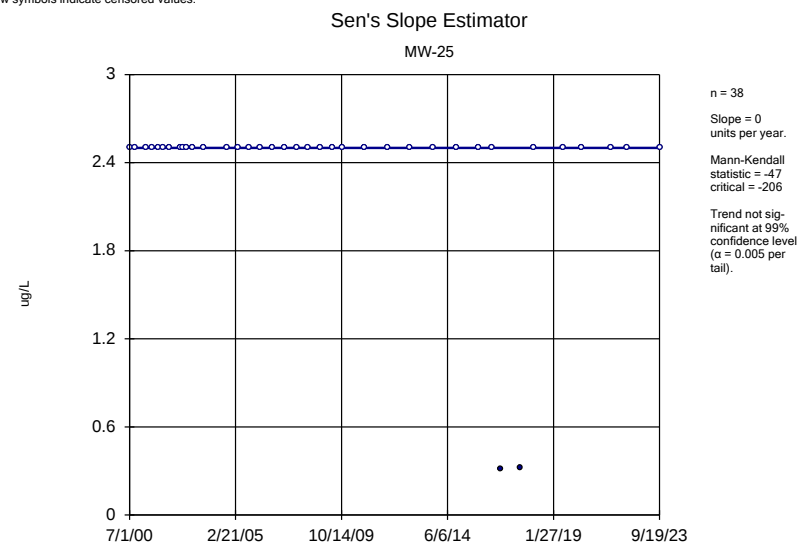
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



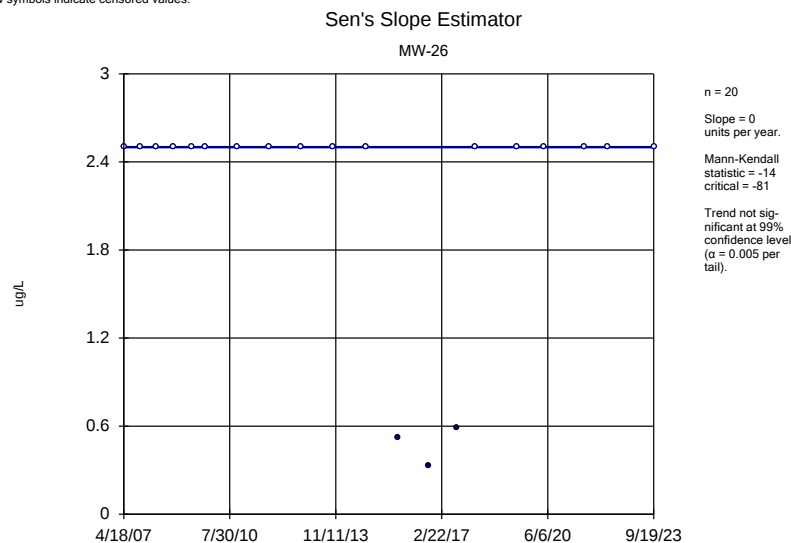
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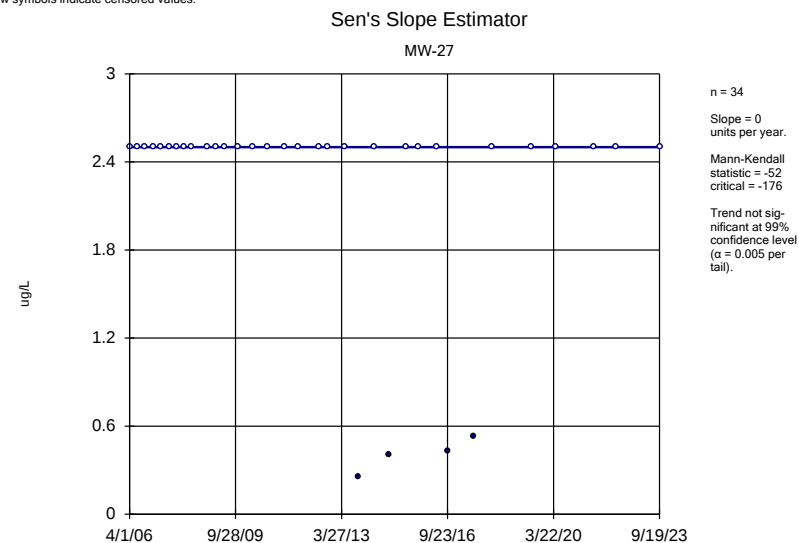
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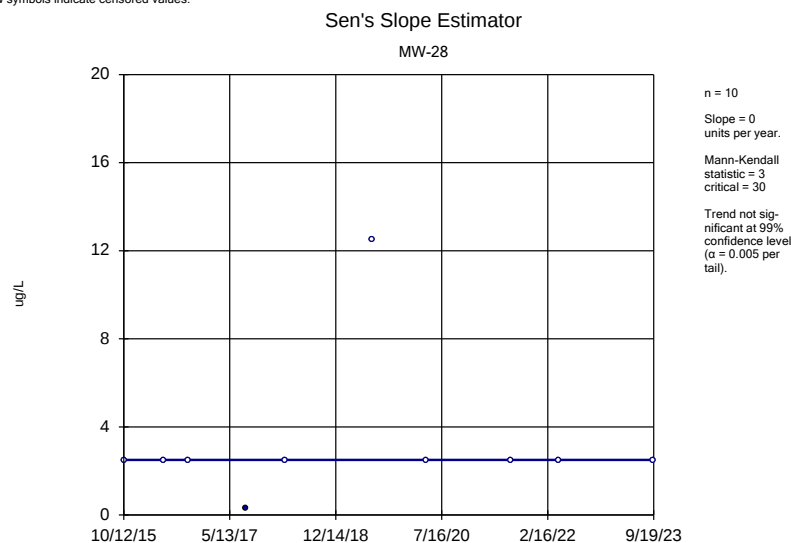
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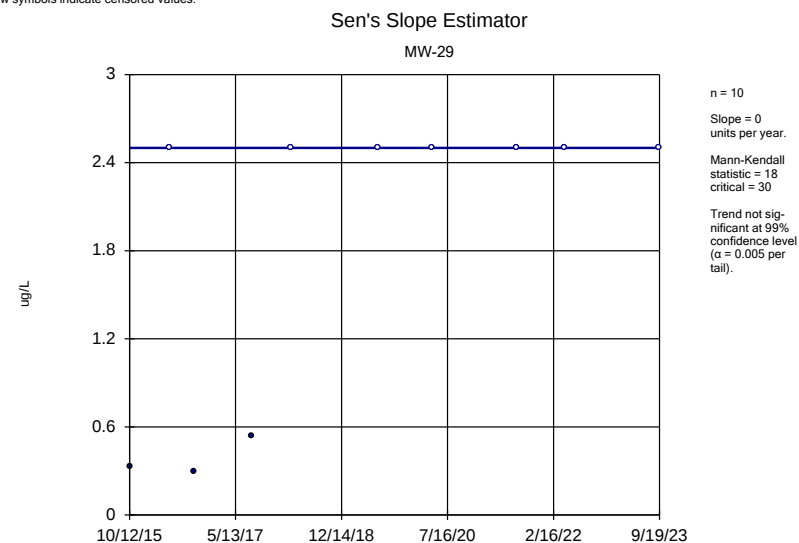
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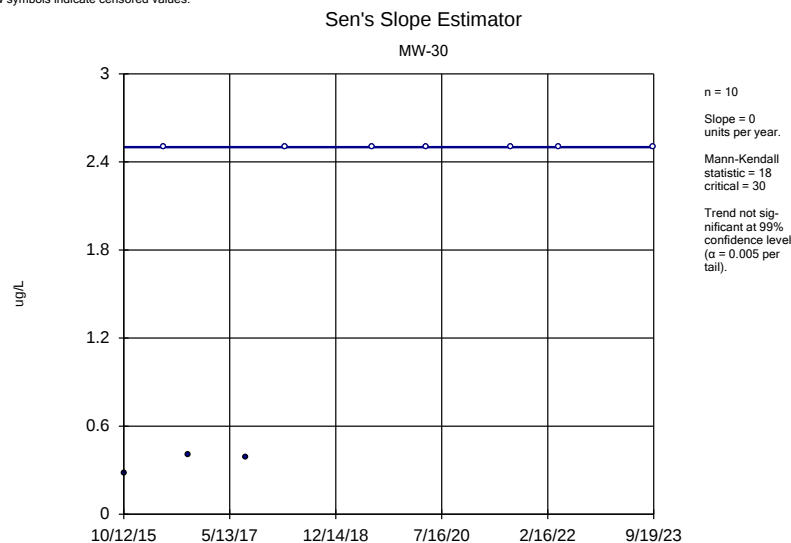
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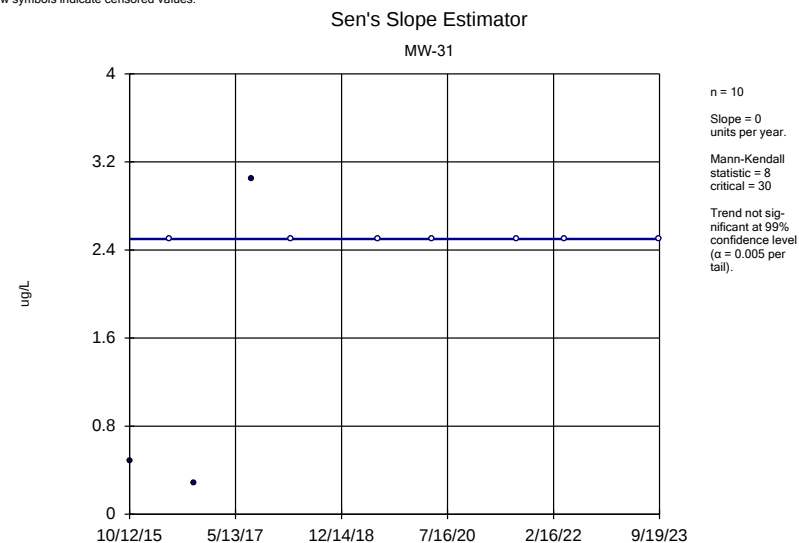
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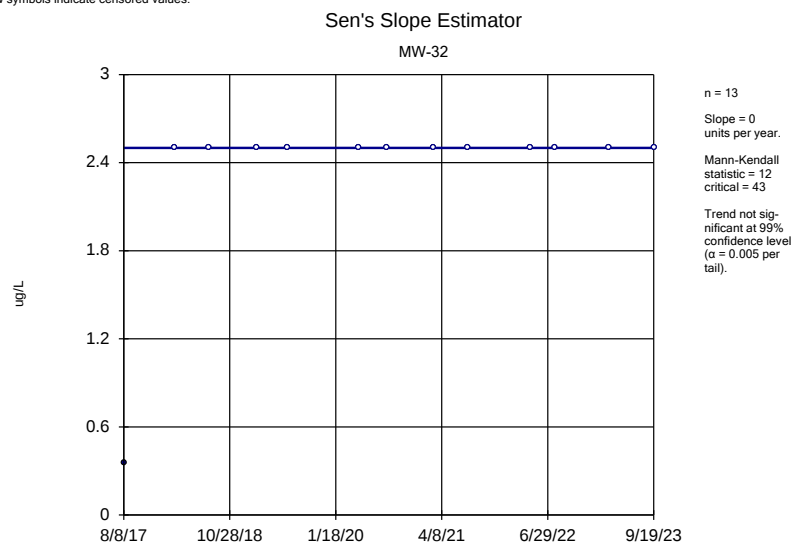
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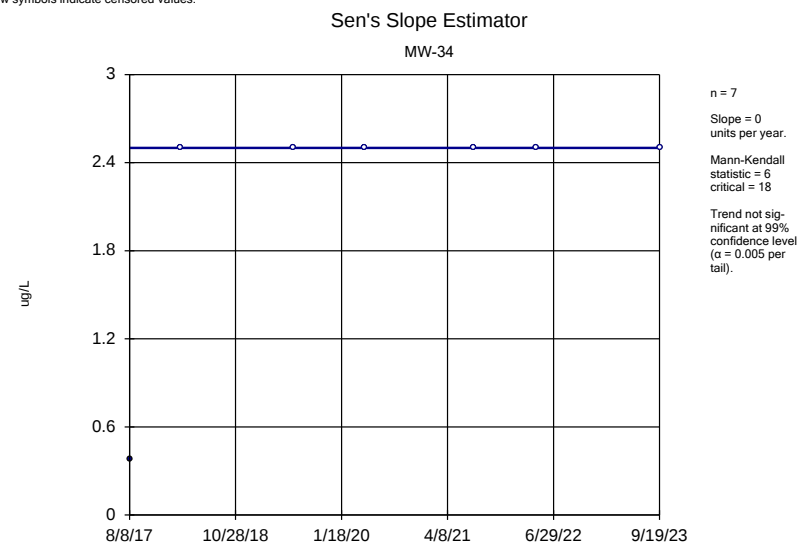
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



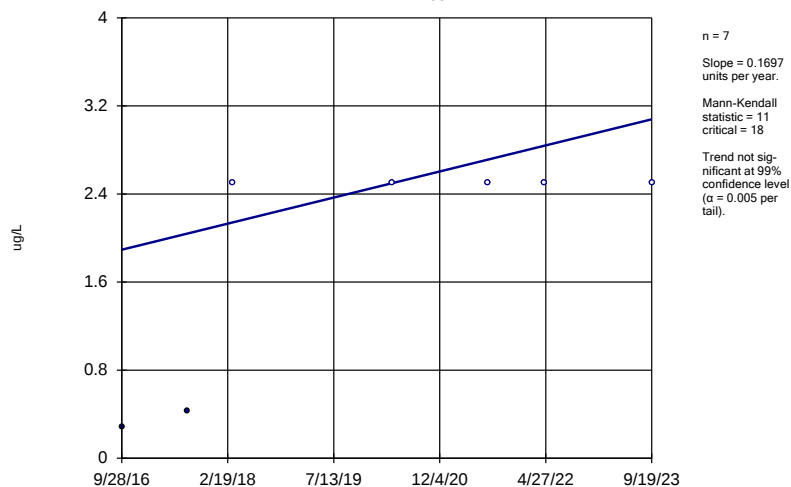
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



Constituent: Methylene Chloride Analysis Run 10/24/2023 5:40 PM View: 2023AWQR - Sel Wells Supp C
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Sen's Slope Estimator

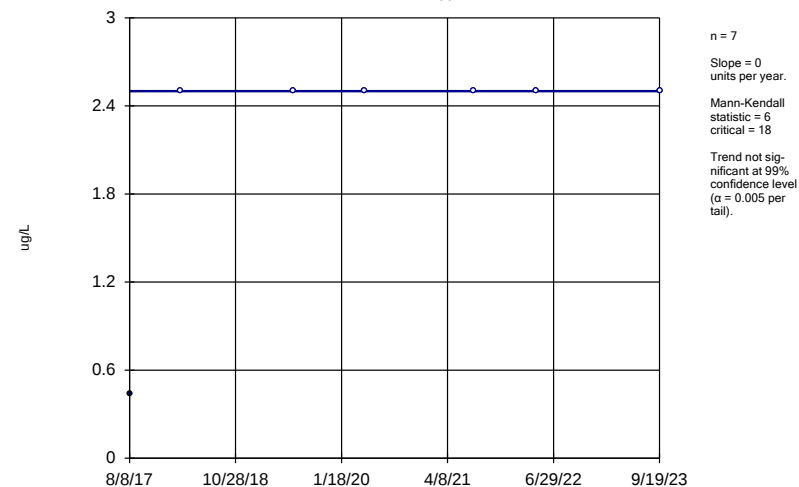
MW-35



Constituent: Methylene Chloride Analysis Run 10/24/2023 5:40 PM View: 2023AWQR - Sel Wells Supp C
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Sen's Slope Estimator

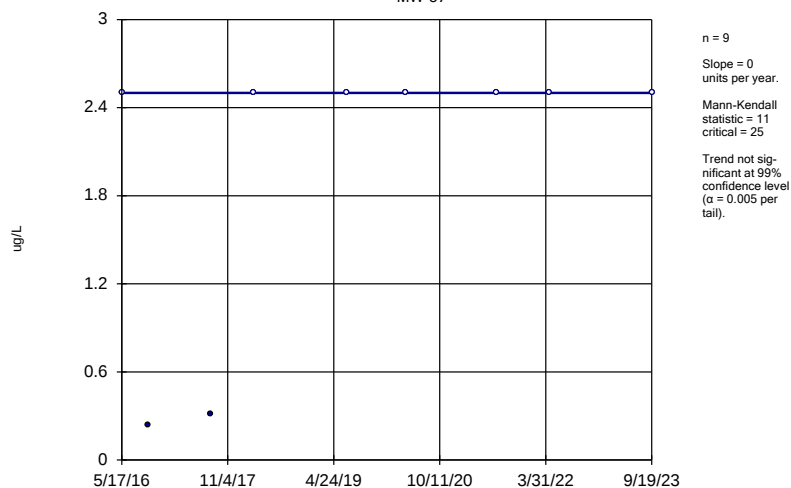
MW-36



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Sen's Slope Estimator

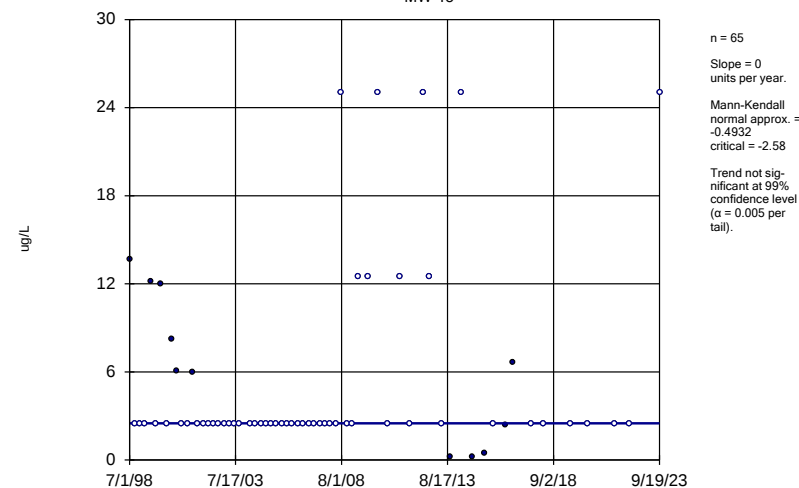
MW-37



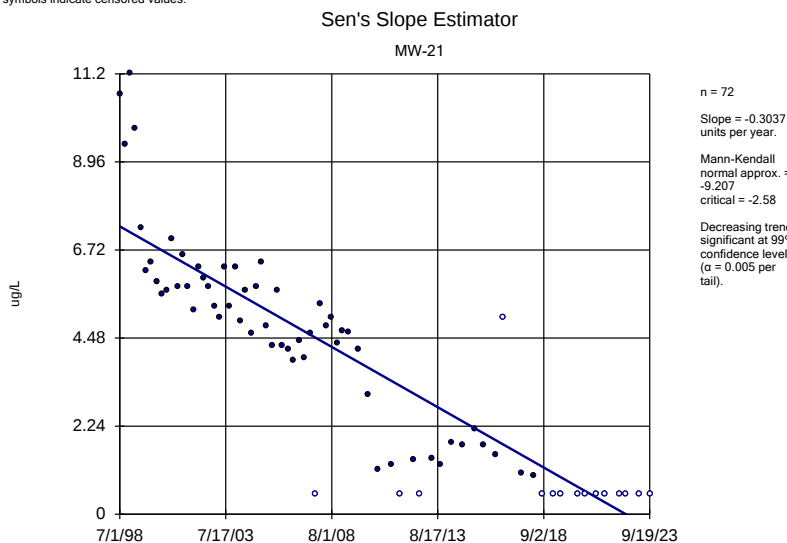
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Sen's Slope Estimator

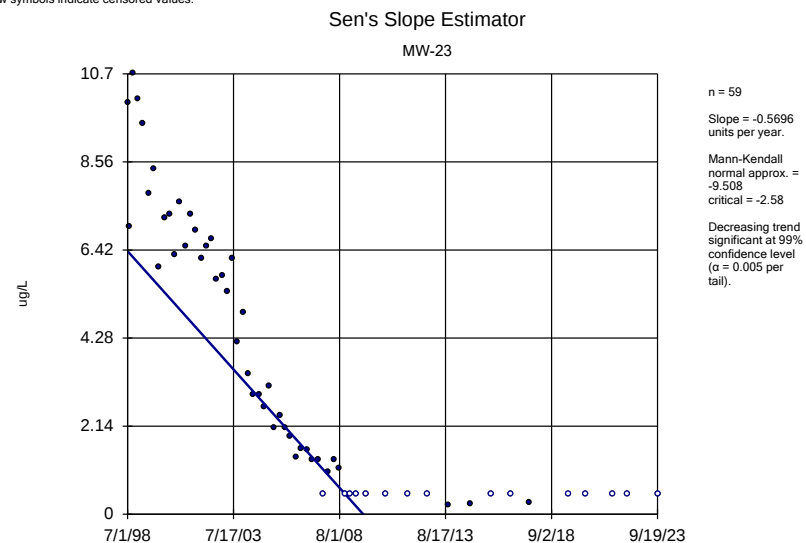
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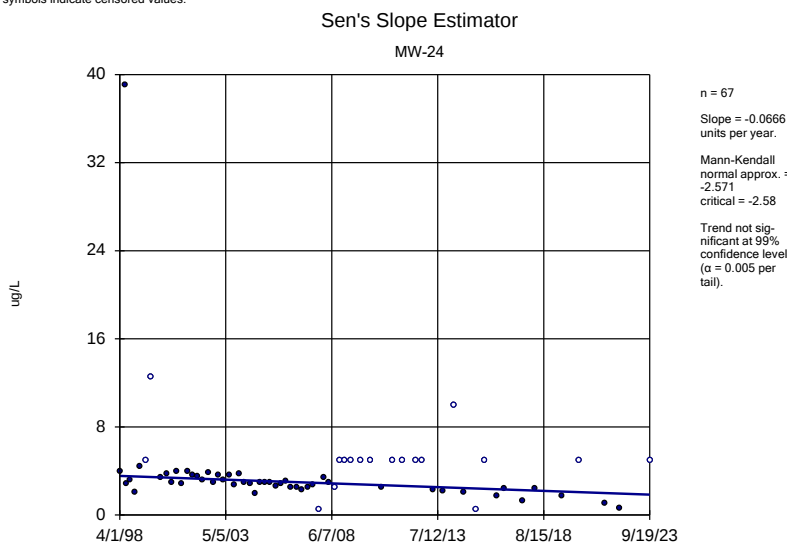
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



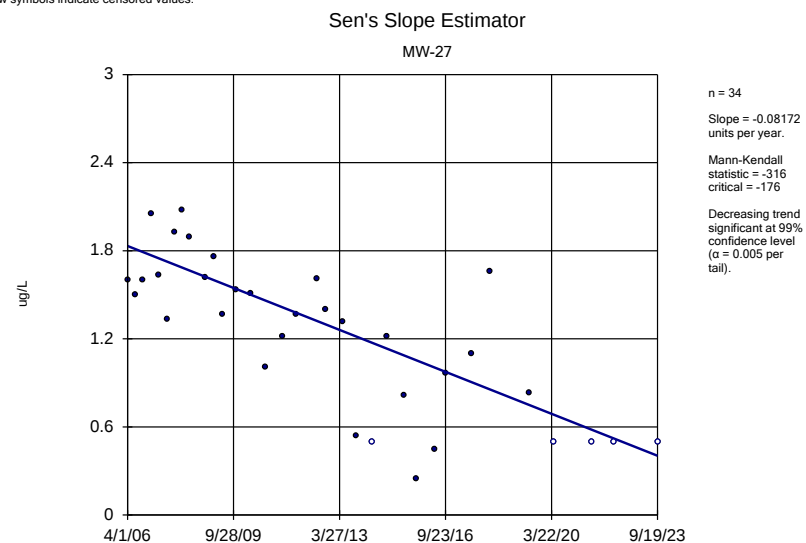
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



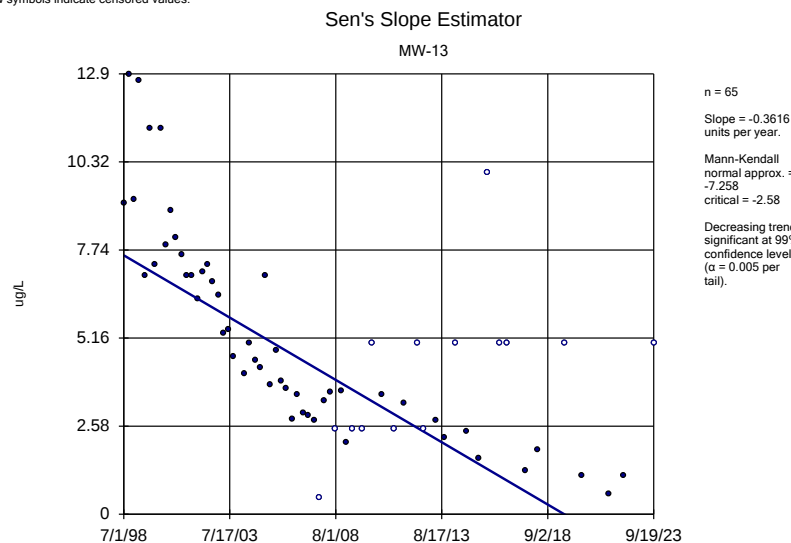
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



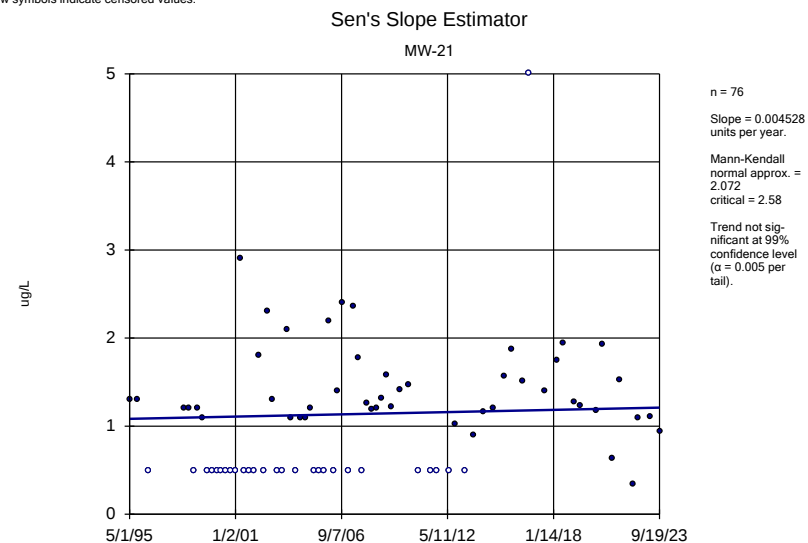
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



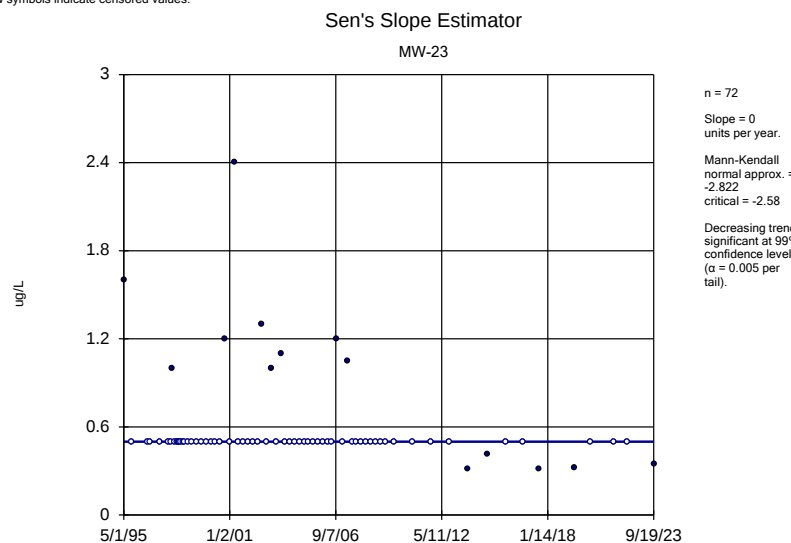
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



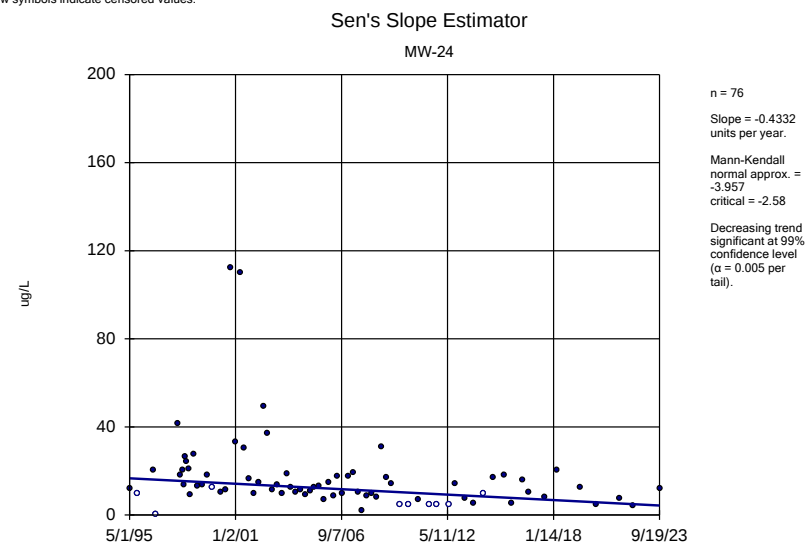
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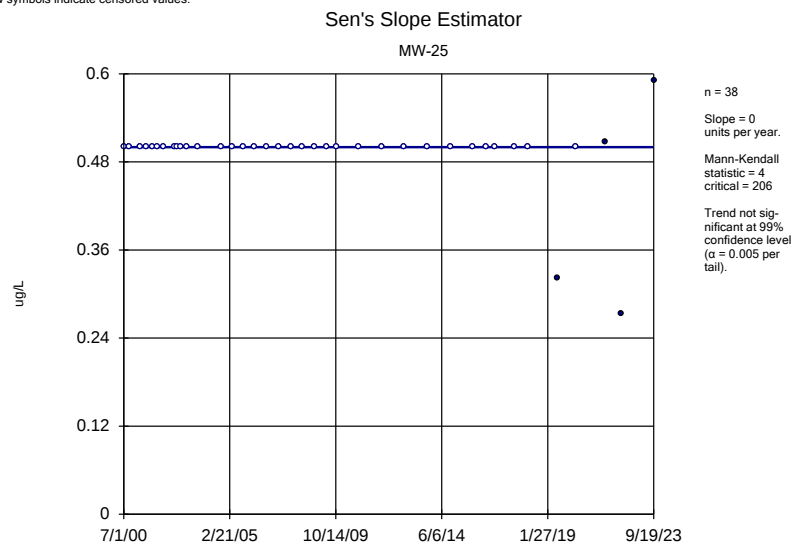
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



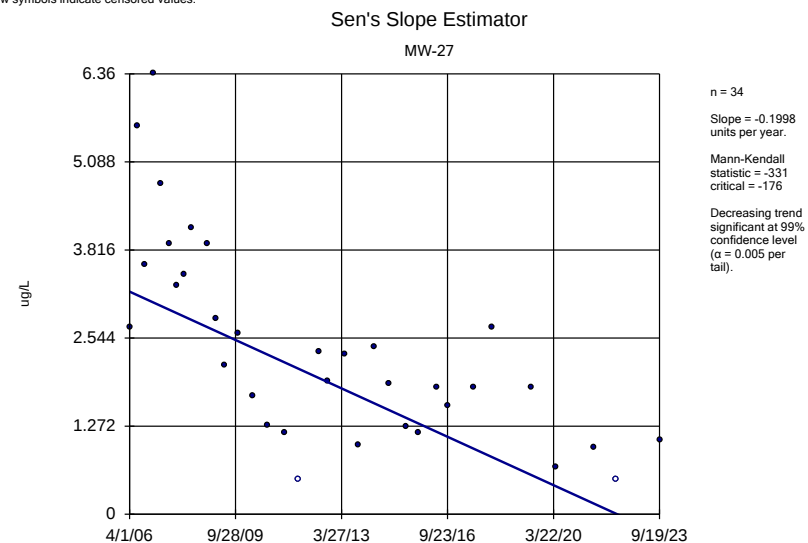
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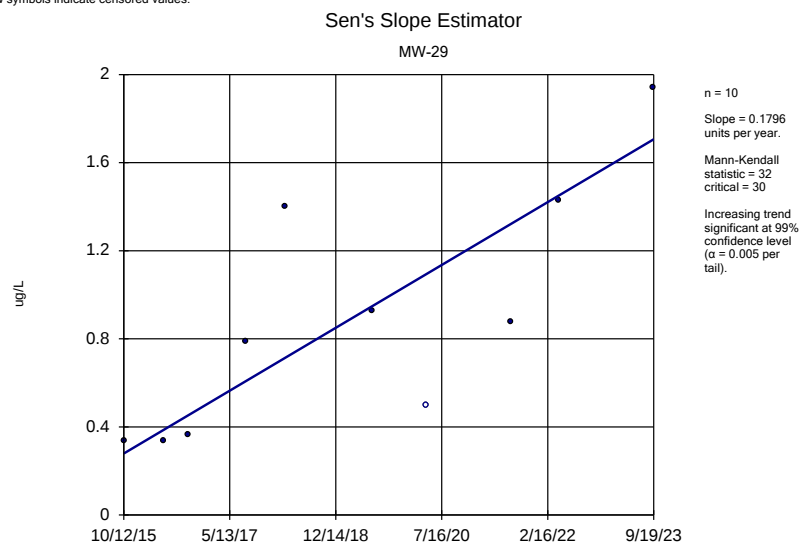
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



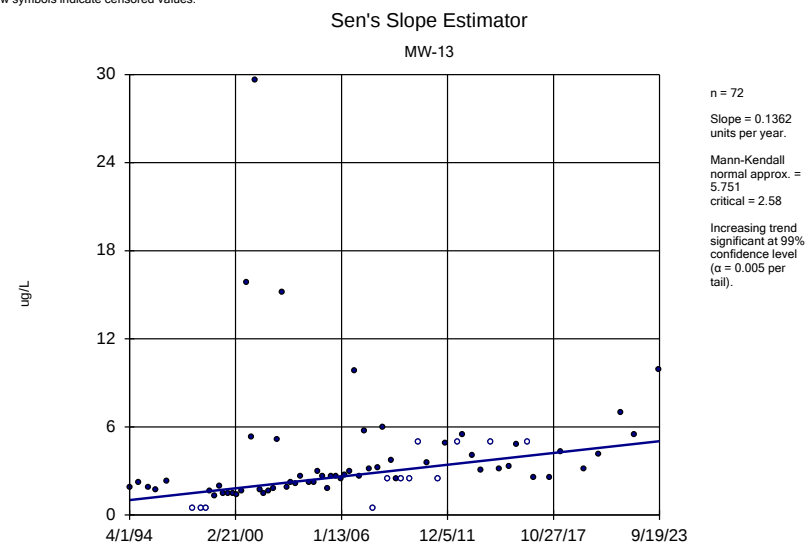
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



Constituent: trans-1,2-Dichloroethene Analysis Run 10/24/2023 5:40 PM View: 2023AWQR - Sel Wells Su
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



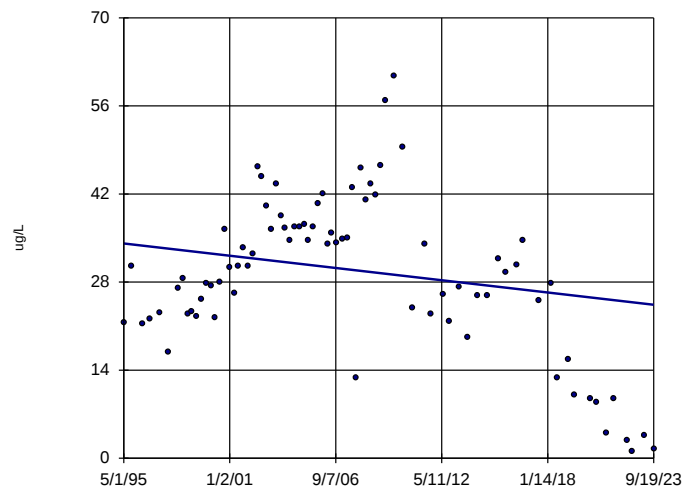
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



Constituent: trans-1,2-Dichloroethene Analysis Run 10/24/2023 5:40 PM View: 2023AWQR - Sel Wells Su
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Sen's Slope Estimator

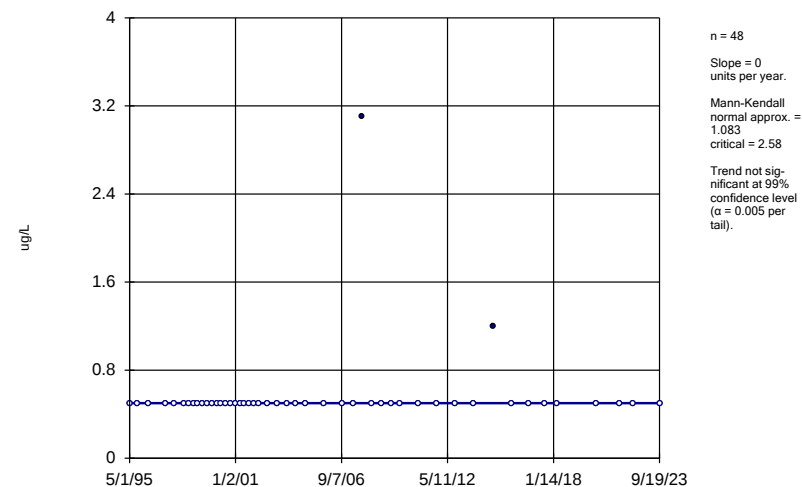
MW-21



Constituent: Trichloroethene Analysis Run 10/24/2023 5:40 PM View: 2023AWQR - Sel Wells Supp Co
 Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Sen's Slope Estimator

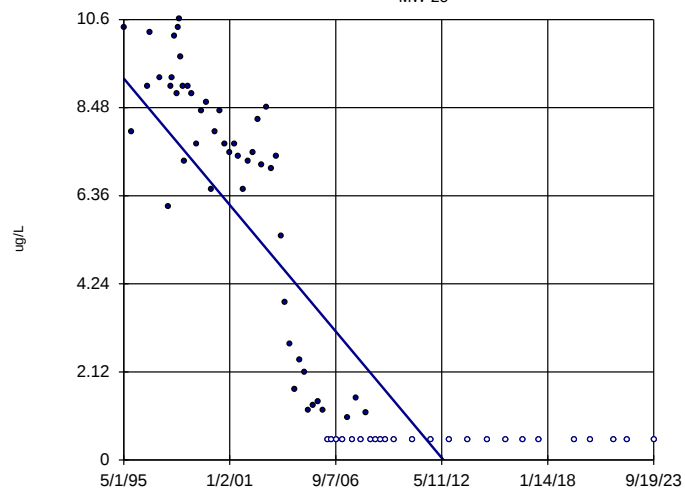
MW-22



Constituent: Trichloroethene Analysis Run 10/24/2023 5:40 PM View: 2023AWQR - Sel Wells Supp Co
 Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Sen's Slope Estimator

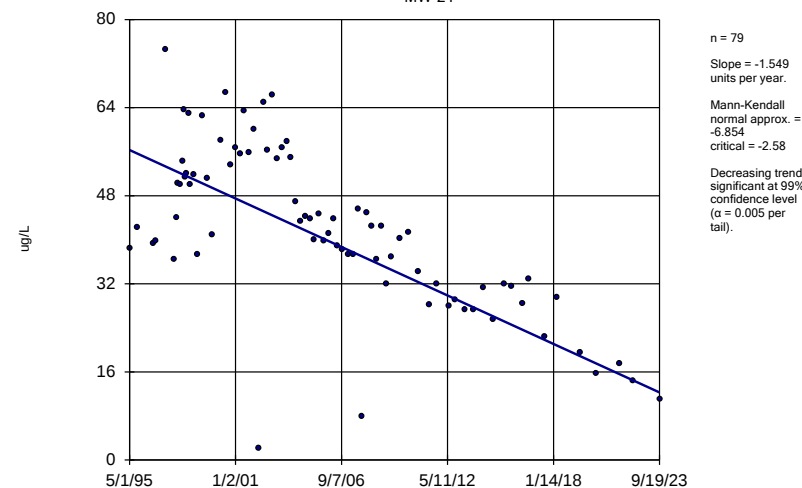
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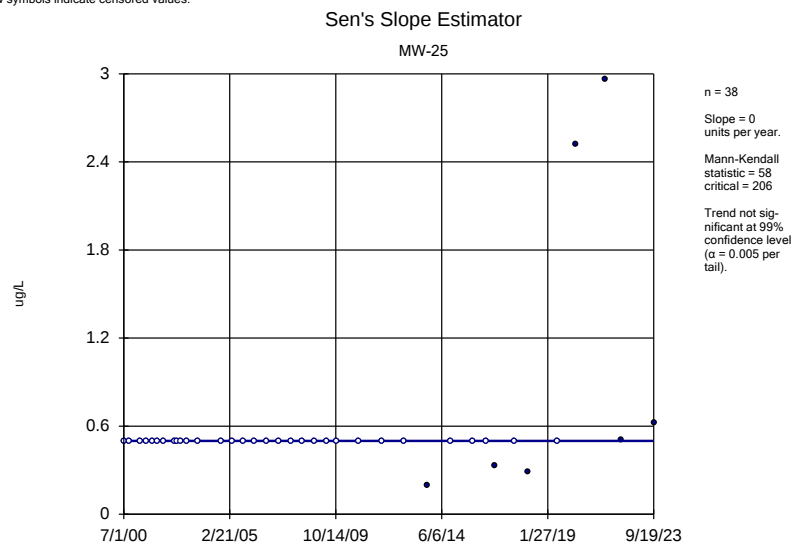
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 Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Sen's Slope Estimator

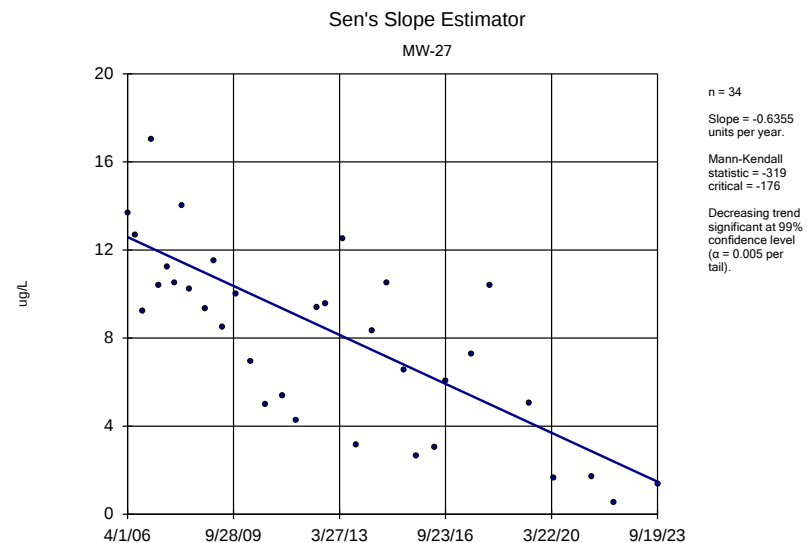
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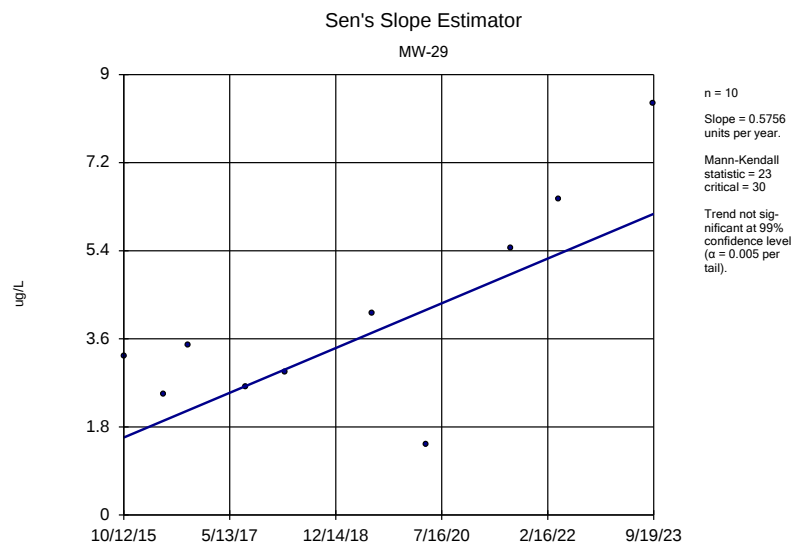
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 Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



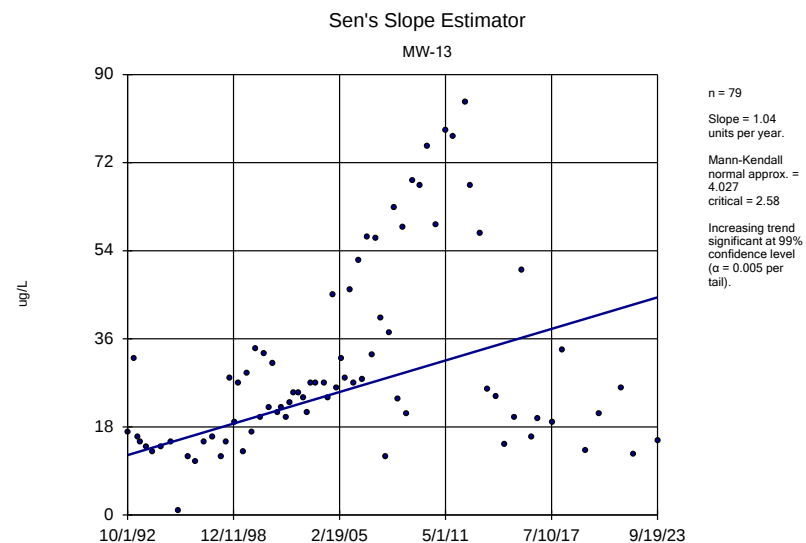
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



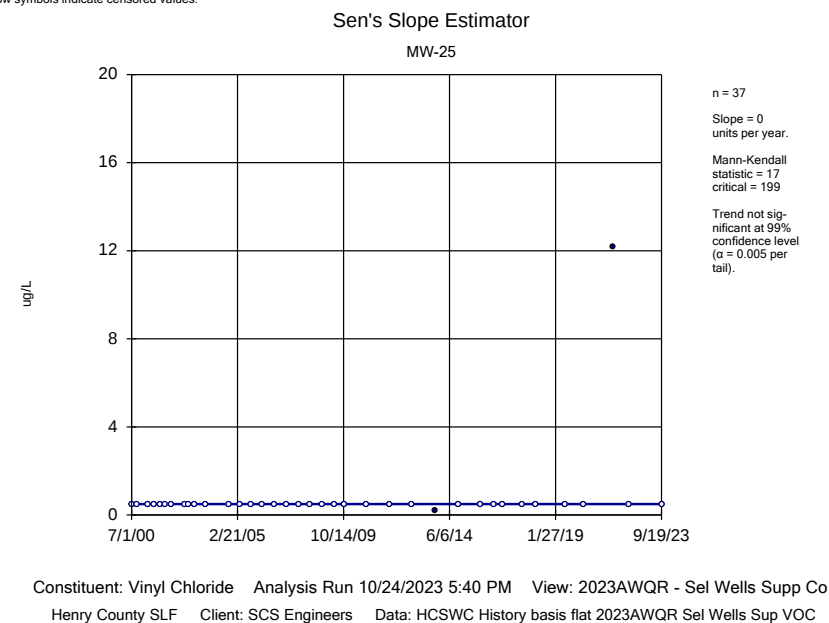
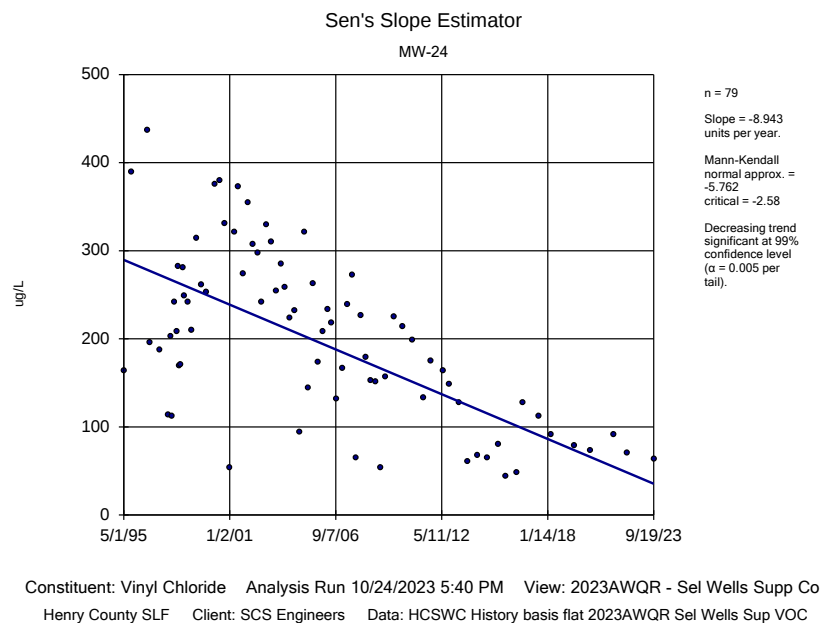
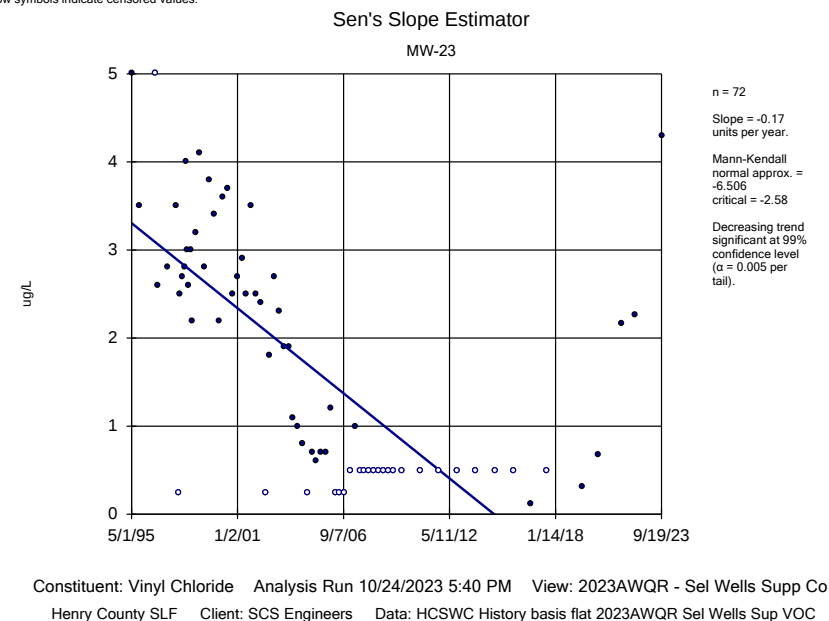
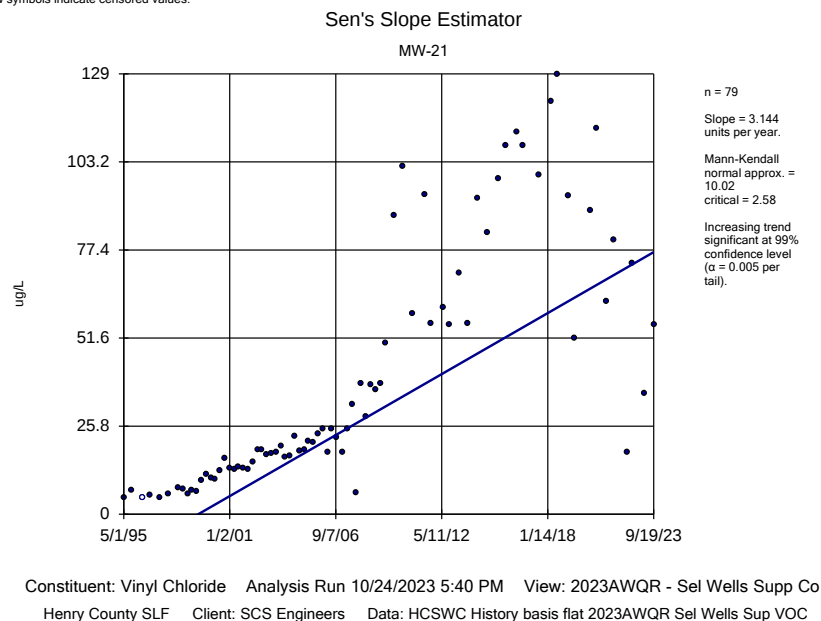
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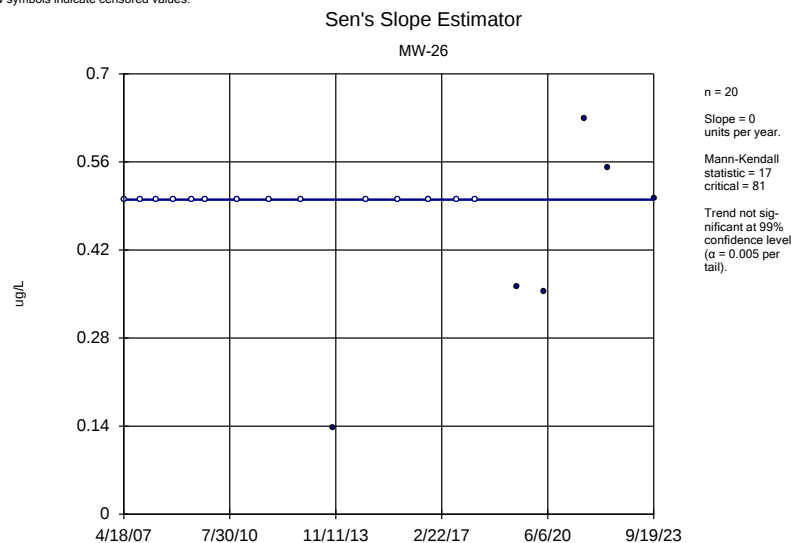


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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

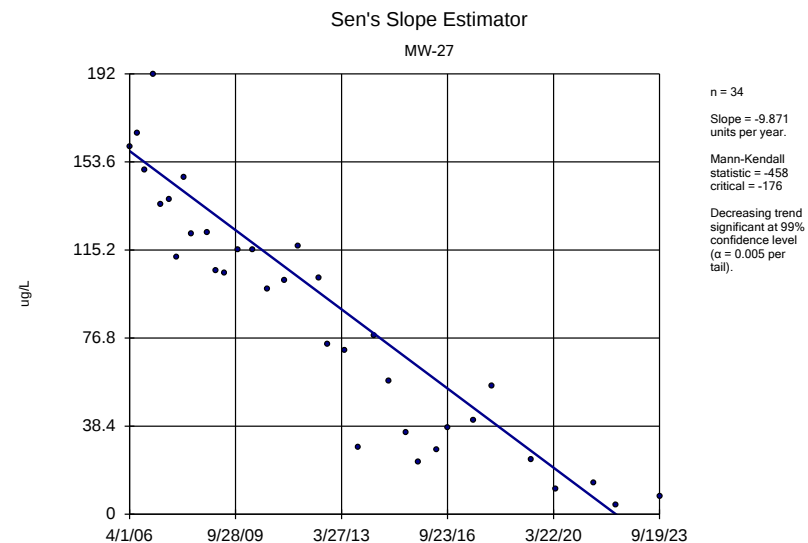


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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

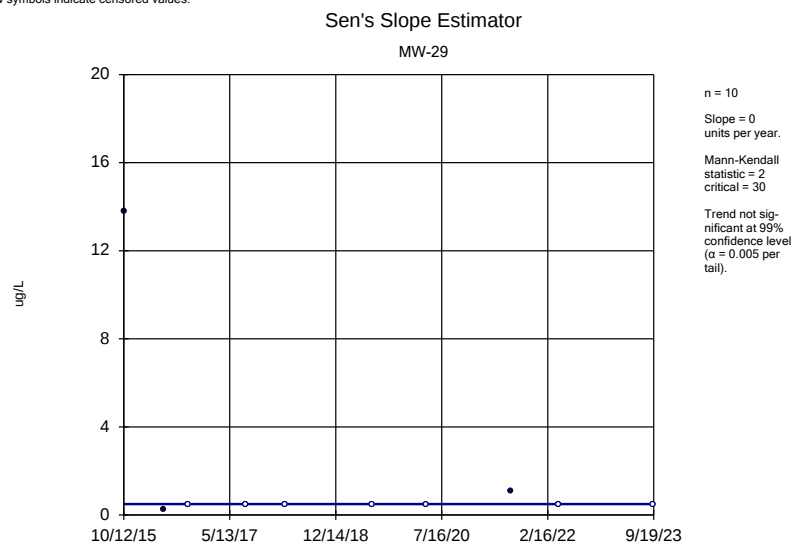




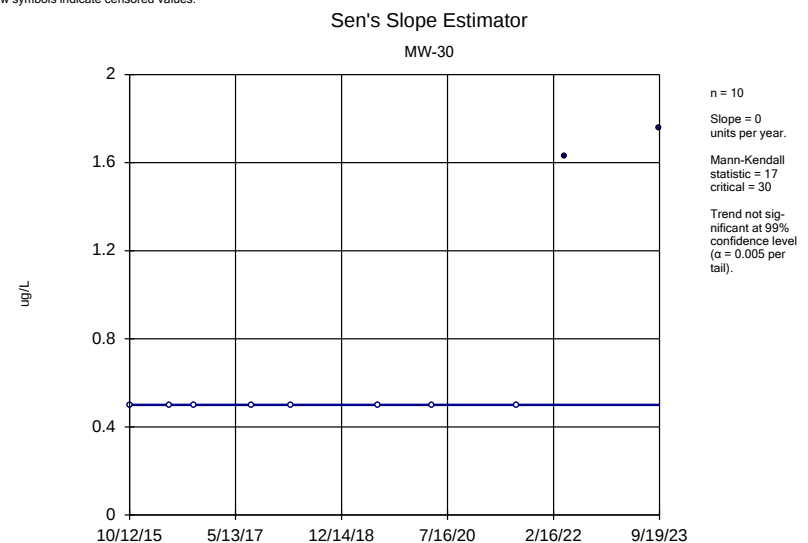
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



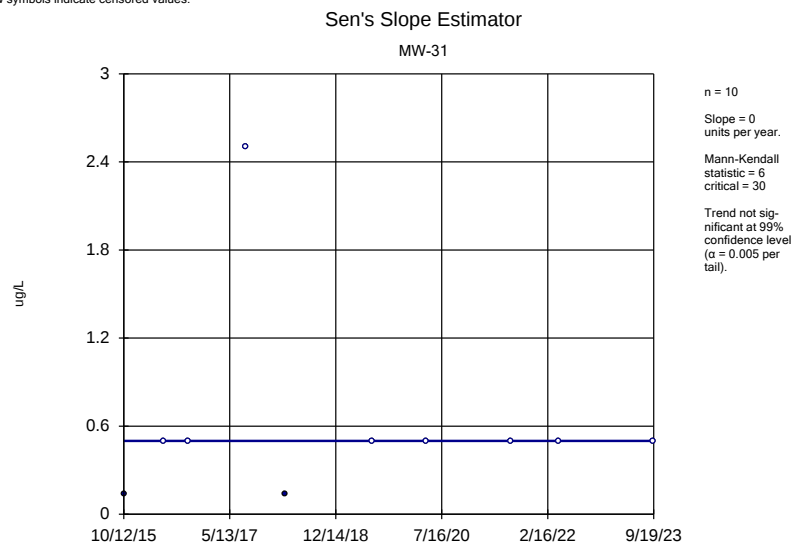
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



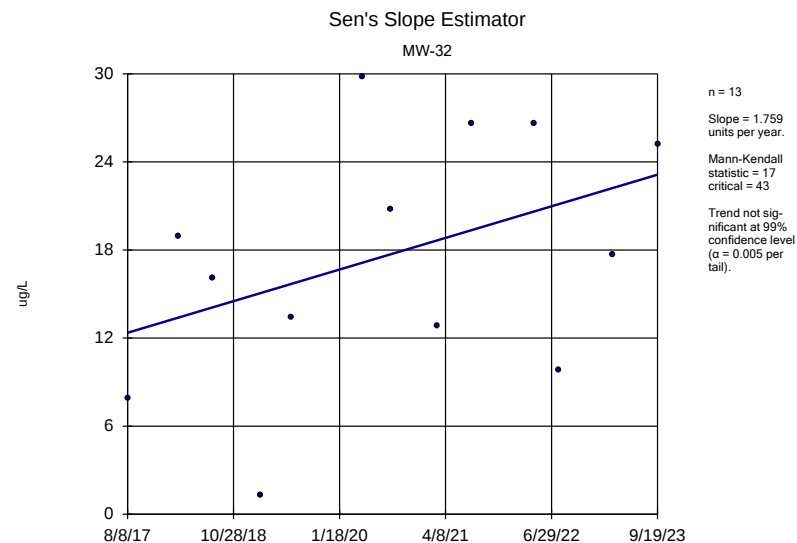
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



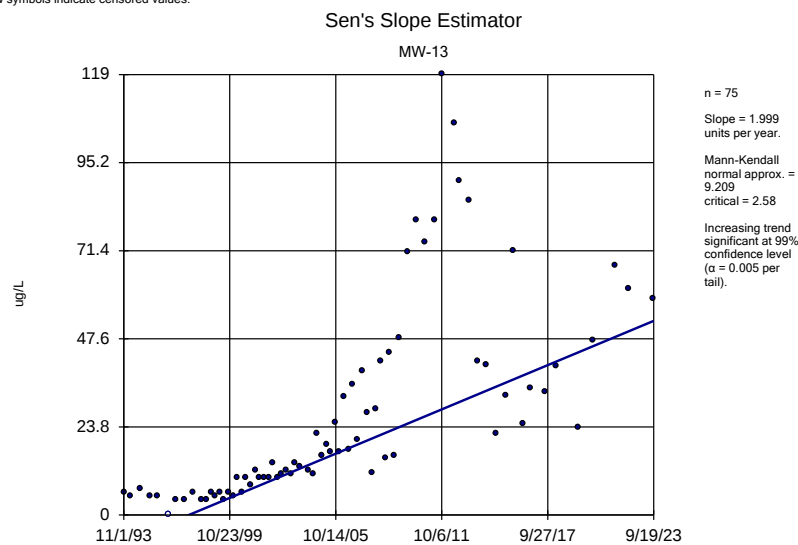
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



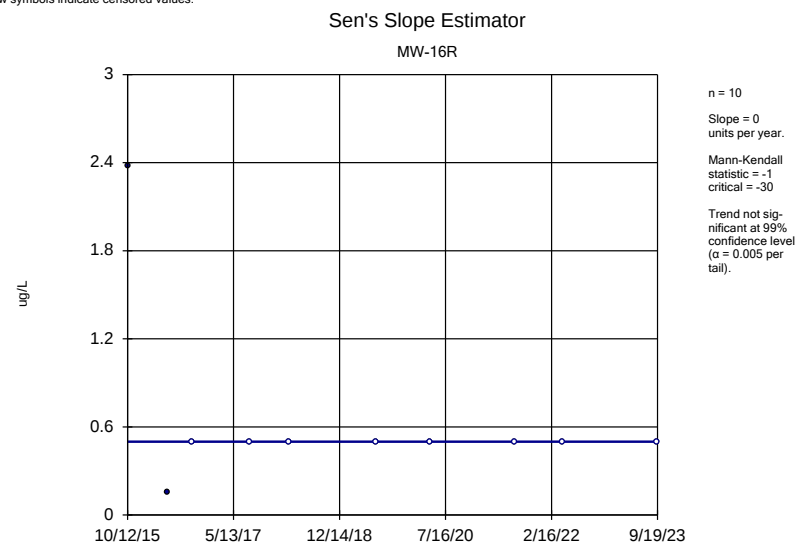
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Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



Constituent: Vinyl Chloride Analysis Run 10/24/2023 5:40 PM View: 2023AWQR - Sel Wells Supp Co
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



Constituent: Vinyl Chloride Analysis Run 10/24/2023 5:40 PM View: 2023AWQR - Sel Wells Supp Co
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC



Constituent: Vinyl Chloride Analysis Run 10/24/2023 5:40 PM View: 2023AWQR - Sel Wells Supp Co
Henry County SLF Client: SCS Engineers Data: HCSWC History basis flat 2023AWQR Sel Wells Sup VOC

Appendix G-2

Appendix I Mann-Kendall Trending Summary Table and Graphs

Trend Test

Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR Printed 10/20/2023, 11:06 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-6	-0.08456	-1	-18	No	7	0	0.01	NP
1,2-Dichlorobenzene (ug/L)	MW-19	0	3	14	No	6	83.33	0.01	NP
1,2-Dichloroethane (ug/L)	MW-19	0	5	14	No	6	83.33	0.01	NP
1,2-Dichloroethane (ug/L)	MW-6	0.04762	11	18	No	7	71.43	0.01	NP
1,4-Dichlorobenzene (ug/L)	MW-19	0.8966	3	14	No	6	16.67	0.01	NP
1,4-Dichlorobenzene (ug/L)	MW-20	0	-4	-18	No	7	85.71	0.01	NP
1,4-Dichlorobenzene (ug/L)	MW-6	0	0	18	No	7	28.57	0.01	NP
2-Butanone (ug/L)	MW-15	0	-2	-18	No	7	85.71	0.01	NP
2-Butanone (ug/L)	MW-19	0	1	14	No	6	83.33	0.01	NP
2-Butanone (ug/L)	MW-20	0	4	18	No	7	85.71	0.01	NP
Acetone (ug/L)	MW-10 (bg)	0	4	18	No	7	85.71	0.01	NP
Acetone (ug/L)	MW-15	0	3	18	No	7	71.43	0.01	NP
Acetone (ug/L)	MW-19	0	0	14	No	6	33.33	0.01	NP
Acetone (ug/L)	MW-20	0.4005	11	18	No	7	57.14	0.01	NP
Acetone (ug/L)	MW-4	0	-6	-18	No	7	85.71	0.01	NP
Acetone (ug/L)	MW-6	0	-1	-18	No	7	71.43	0.01	NP
Acetone (ug/L)	MW-8	0	9	18	No	7	71.43	0.01	NP
Antimony (mg/L)	MW-10 (bg)	0.000126	13	18	No	7	85.71	0.01	NP
Arsenic (mg/L)	MW-19	-0.00005911	-1	-14	No	6	0	0.01	NP
Arsenic (mg/L)	MW-20	0.000003187	1	18	No	7	14.29	0.01	NP
Arsenic (mg/L)	MW-4	0	-1	-18	No	7	57.14	0.01	NP
Arsenic (mg/L)	MW-6	0.0003068	19	18	Yes	7	0	0.01	NP
Barium (mg/L)	MW-10 (bg)	-0.001409	-15	-18	No	7	0	0.01	NP
Barium (mg/L)	MW-15	0.005949	7	18	No	7	0	0.01	NP
Barium (mg/L)	MW-19	-0.005337	-5	-14	No	6	0	0.01	NP
Barium (mg/L)	MW-20	0.0003514	3	18	No	7	0	0.01	NP
Barium (mg/L)	MW-4	0.0006348	1	18	No	7	0	0.01	NP
Barium (mg/L)	MW-6	0.006067	5	18	No	7	0	0.01	NP
Barium (mg/L)	MW-8	-0.0005444	-10	-18	No	7	0	0.01	NP
Benzene (ug/L)	MW-19	-0.01695	-4	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-20	-0.04774	-7	-21	No	8	37.5	0.01	NP
Benzene (ug/L)	MW-6	0.03072	6	21	No	8	12.5	0.01	NP
Bromomethane (ug/L)	MW-10 (bg)	0	6	18	No	7	85.71	0.01	NP
Bromomethane (ug/L)	MW-15	0	6	18	No	7	85.71	0.01	NP
Bromomethane (ug/L)	MW-20	0	9	18	No	7	71.43	0.01	NP
Bromomethane (ug/L)	MW-4	0	4	18	No	7	85.71	0.01	NP
Bromomethane (ug/L)	MW-6	0.08242	11	18	No	7	71.43	0.01	NP
Bromomethane (ug/L)	MW-8	0	5	18	No	7	57.14	0.01	NP
Cadmium (mg/L)	MW-19	0	0	14	No	6	66.67	0.01	NP
Cadmium (mg/L)	MW-20	-0.00001749	-8	-18	No	7	71.43	0.01	NP
Cadmium (mg/L)	MW-4	-0.00001666	-6	-18	No	7	42.86	0.01	NP
Cadmium (mg/L)	MW-6	-2.4e-7	-4	-18	No	7	57.14	0.01	NP
Cadmium (mg/L)	MW-8	-0.000004895	-6	-18	No	7	71.43	0.01	NP
Carbon Disulfide (ug/L)	MW-19	0.04618	7	14	No	6	66.67	0.01	NP
Chlorobenzene (ug/L)	MW-19	2.771	3	14	No	6	0	0.01	NP
Chlorobenzene (ug/L)	MW-20	-0.16	-4	-18	No	7	28.57	0.01	NP
Chloroethane (ug/L)	MW-6	0.02411	4	18	No	7	42.86	0.01	NP
Chromium (mg/L)	MW-10 (bg)	0	4	18	No	7	85.71	0.01	NP
Chromium (mg/L)	MW-19	0	-1	-14	No	6	66.67	0.01	NP
Chromium (mg/L)	MW-4	0	4	18	No	7	85.71	0.01	NP

Trend Test

Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR Printed 10/20/2023, 11:06 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Chromium (mg/L)	MW-6	-0.00000731	-2	-18	No	7	28.57	0.01	NP
Chromium (mg/L)	MW-8	0	6	18	No	7	85.71	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-15	0	3	21	No	8	87.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-19	-0.108	-22	-21	Yes	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-20	-0.1435	-6	-21	No	8	12.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-6	-0.03886	-6	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-15	0.00003459	5	18	No	7	14.29	0.01	NP
Cobalt (mg/L)	MW-19	-0.0005347	-5	-14	No	6	0	0.01	NP
Cobalt (mg/L)	MW-20	-0.00007271	-3	-18	No	7	0	0.01	NP
Cobalt (mg/L)	MW-4	0.000455	9	18	No	7	0	0.01	NP
Cobalt (mg/L)	MW-6	0.002556	7	18	No	7	0	0.01	NP
Copper (mg/L)	MW-19	-0.0003143	-4	-14	No	6	50	0.01	NP
Copper (mg/L)	MW-20	-0.0001218	-8	-18	No	7	57.14	0.01	NP
Lead (mg/L)	MW-15	-0.0000123	-11	-18	No	7	71.43	0.01	NP
Lead (mg/L)	MW-20	-0.00003043	-11	-18	No	7	28.57	0.01	NP
Methylene Chloride (ug/L)	MW-15	0	7	21	No	8	87.5	0.01	NP
Methylene Chloride (ug/L)	MW-19	0	5	21	No	8	87.5	0.01	NP
Methylene Chloride (ug/L)	MW-20	0	7	21	No	8	87.5	0.01	NP
Methylene Chloride (ug/L)	MW-4	0	13	21	No	8	75	0.01	NP
Methylene Chloride (ug/L)	MW-6	0	7	21	No	8	87.5	0.01	NP
Nickel (mg/L)	MW-10 (bg)	0	-1	-18	No	7	85.71	0.01	NP
Nickel (mg/L)	MW-15	0.001606	9	18	No	7	0	0.01	NP
Nickel (mg/L)	MW-19	0.006882	7	14	No	6	0	0.01	NP
Nickel (mg/L)	MW-20	-0.001094	-5	-18	No	7	0	0.01	NP
Nickel (mg/L)	MW-4	0.0009258	11	18	No	7	0	0.01	NP
Nickel (mg/L)	MW-6	-0.0003802	-1	-18	No	7	0	0.01	NP
Selenium (mg/L)	MW-8	-0.0003459	-17	-18	No	7	0	0.01	NP
Tetrachloroethene (ug/L)	MW-6	0.003644	0	21	No	8	0	0.01	NP
Thallium (mg/L)	MW-19	0.00004744	9	14	No	6	66.67	0.01	NP
Thallium (mg/L)	MW-6	0	6	18	No	7	85.71	0.01	NP
Toluene (ug/L)	MW-10 (bg)	0	4	18	No	7	85.71	0.01	NP
Toluene (ug/L)	MW-15	0.05305	11	18	No	7	71.43	0.01	NP
Toluene (ug/L)	MW-19	0.007842	4	14	No	6	50	0.01	NP
Toluene (ug/L)	MW-20	-0.002716	-11	-18	No	7	71.43	0.01	NP
Toluene (ug/L)	MW-4	0	6	18	No	7	85.71	0.01	NP
Toluene (ug/L)	MW-8	0	4	18	No	7	85.71	0.01	NP
Trichloroethene (ug/L)	MW-20	0	7	21	No	8	87.5	0.01	NP
Trichloroethene (ug/L)	MW-6	0.2764	10	21	No	8	0	0.01	NP
Vanadium (mg/L)	MW-19	0.0002225	6	14	No	6	50	0.01	NP
Vanadium (mg/L)	MW-20	0.00007383	2	18	No	7	42.86	0.01	NP
Vinyl Chloride (ug/L)	MW-20	0	4	21	No	8	62.5	0.01	NP
Vinyl Chloride (ug/L)	MW-6	0	0	21	No	8	62.5	0.01	NP
Xylenes, total (ug/L)	MW-10 (bg)	0	6	18	No	7	85.71	0.01	NP
Xylenes, total (ug/L)	MW-15	0	6	18	No	7	85.71	0.01	NP
Xylenes, total (ug/L)	MW-19	0.2516	7	14	No	6	66.67	0.01	NP
Xylenes, total (ug/L)	MW-20	0	9	18	No	7	71.43	0.01	NP
Xylenes, total (ug/L)	MW-4	0	6	18	No	7	85.71	0.01	NP
Zinc (mg/L)	MW-15	0.005427	5	18	No	7	14.29	0.01	NP
Zinc (mg/L)	MW-19	0.02758	8	14	No	6	50	0.01	NP
Zinc (mg/L)	MW-20	-0.1741	-11	-18	No	7	0	0.01	NP

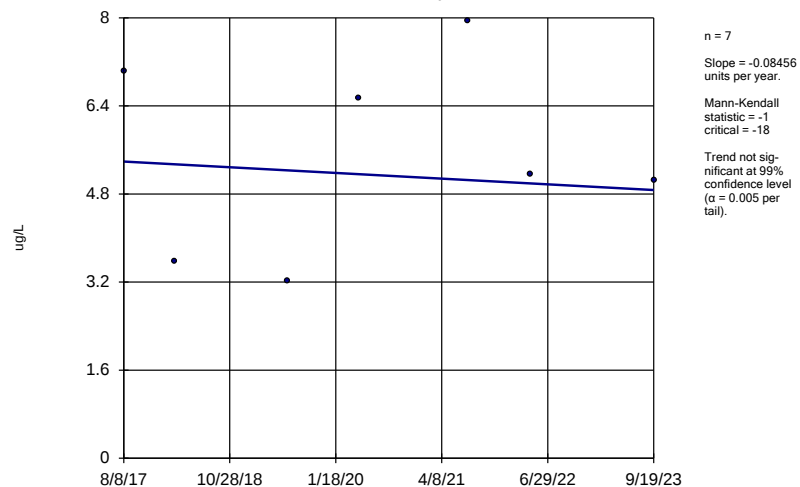
Trend Test

Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR Printed 10/20/2023, 11:06 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Zinc (mg/L)	MW-6	0.001901	8	18	No	7	0	0.01	NP

Sen's Slope Estimator

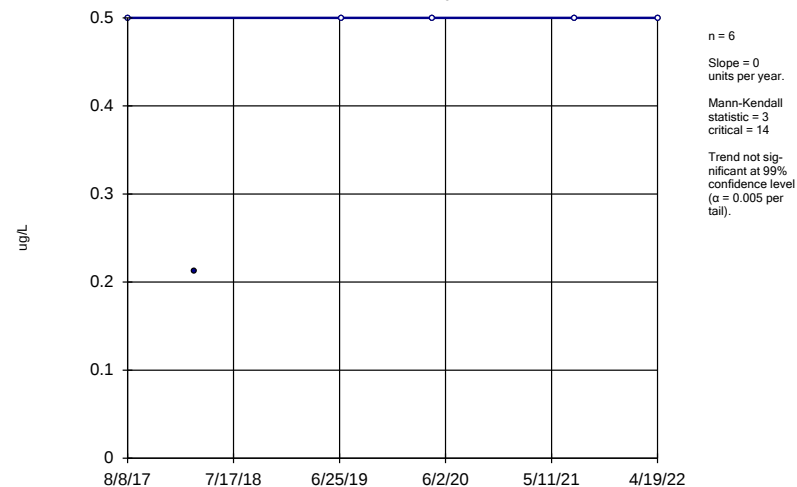
MW-6



Constituent: 1,1-Dichloroethane Analysis Run 10/20/2023 11:03 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope Estimator

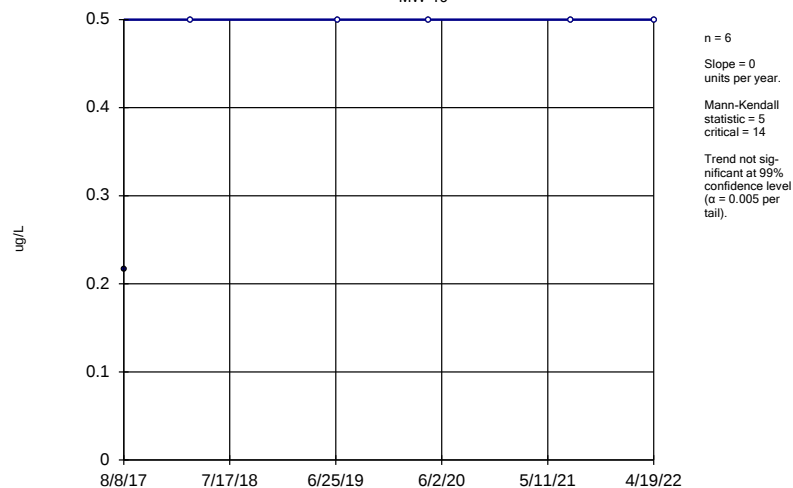
MW-19



Constituent: 1,2-Dichlorobenzene Analysis Run 10/20/2023 11:03 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope Estimator

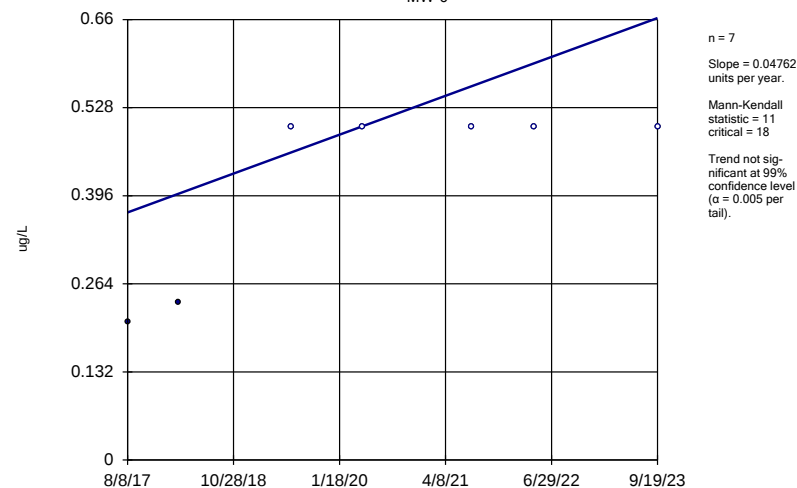
MW-19



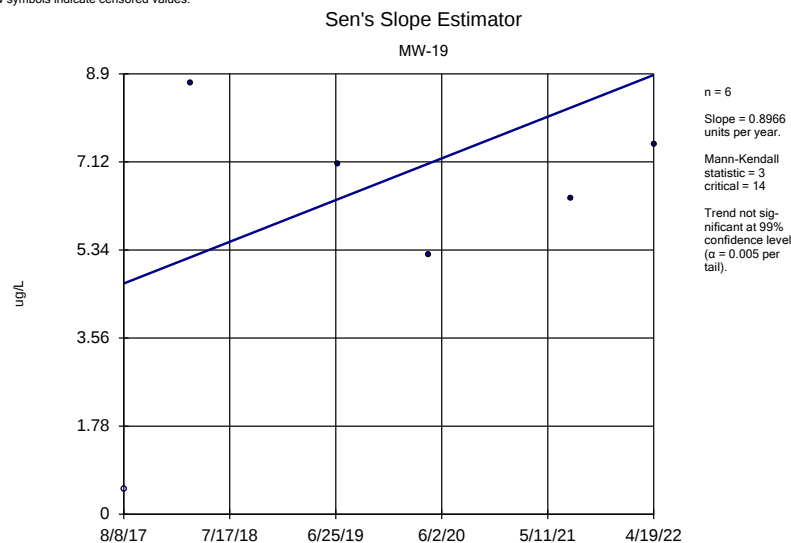
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope Estimator

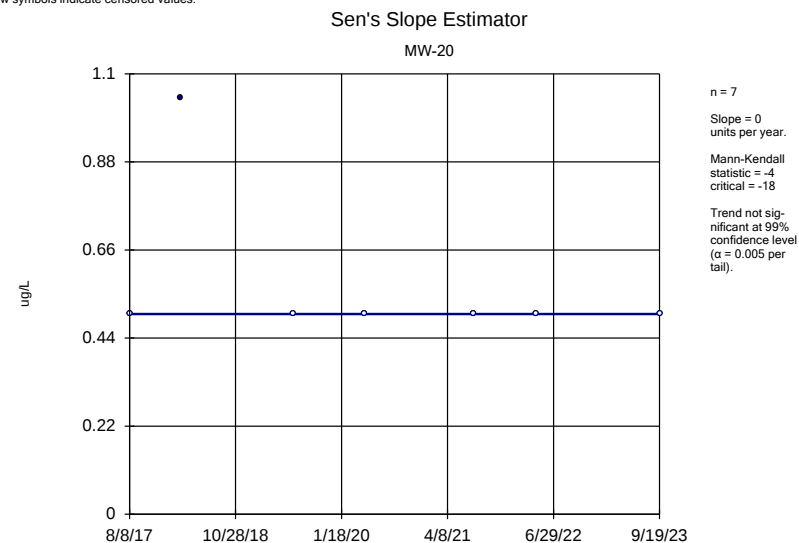
MW-6



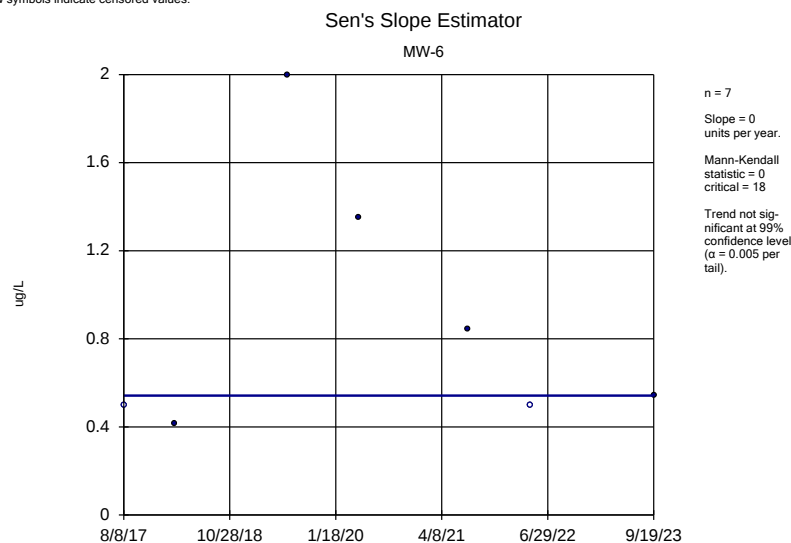
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



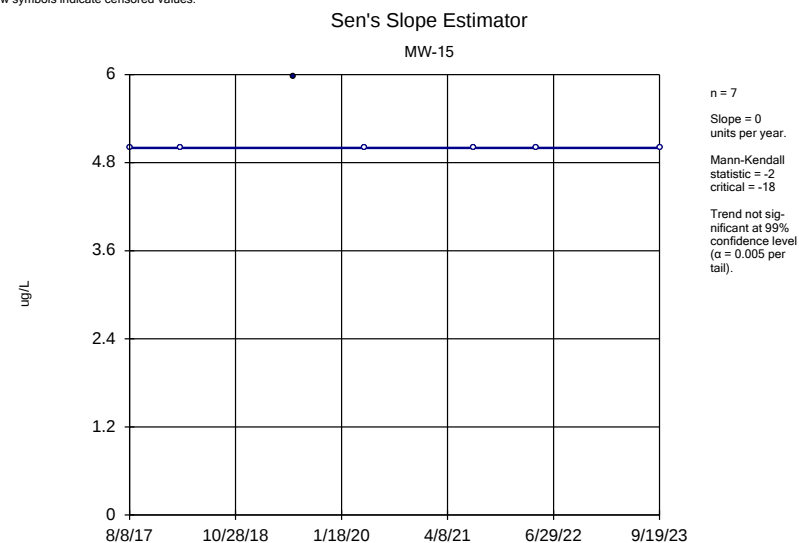
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



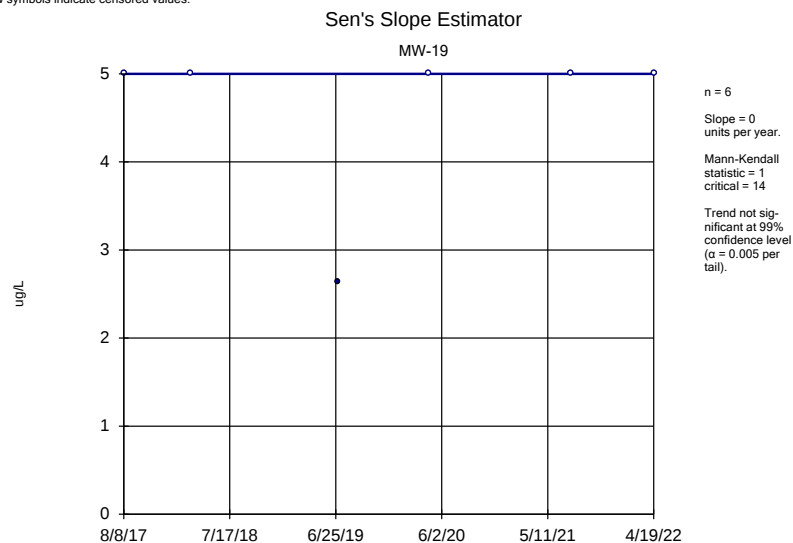
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



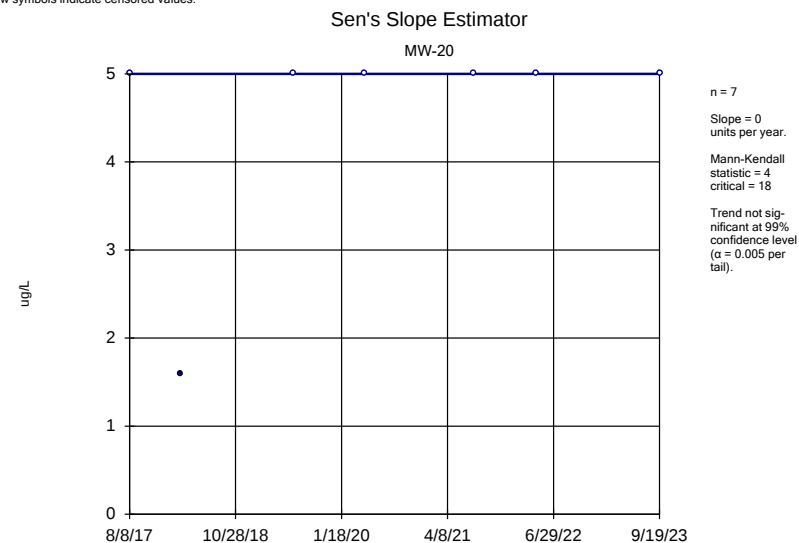
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



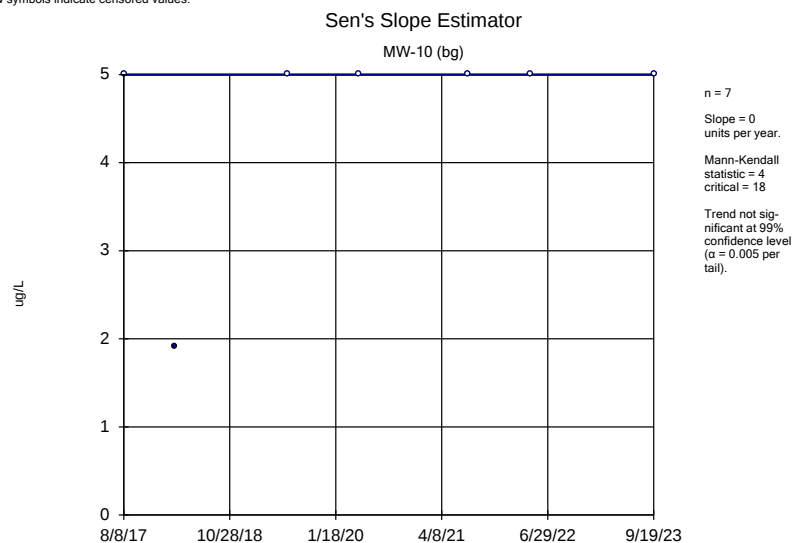
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



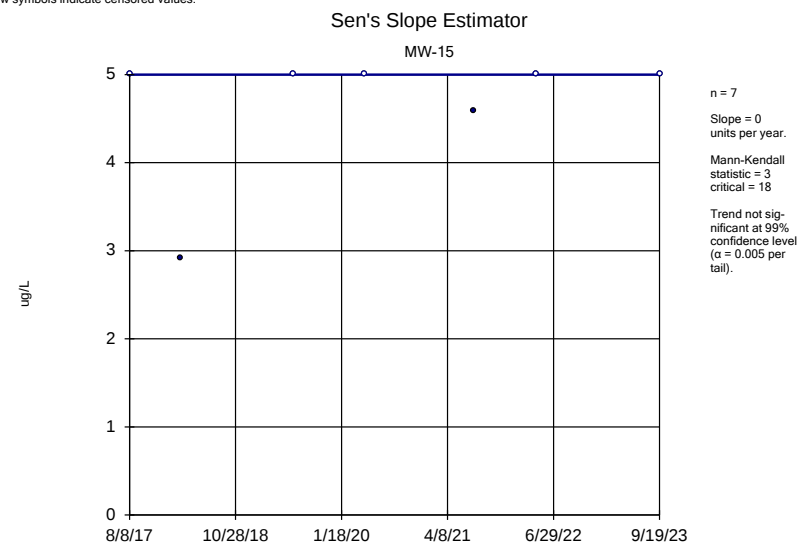
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



Constituent: 2-Butanone Analysis Run 10/20/2023 11:03 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



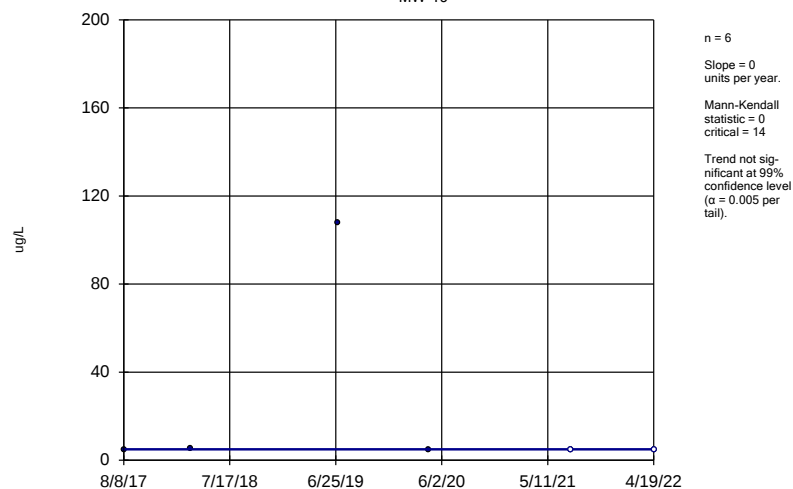
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



Constituent: Acetone Analysis Run 10/20/2023 11:04 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope Estimator

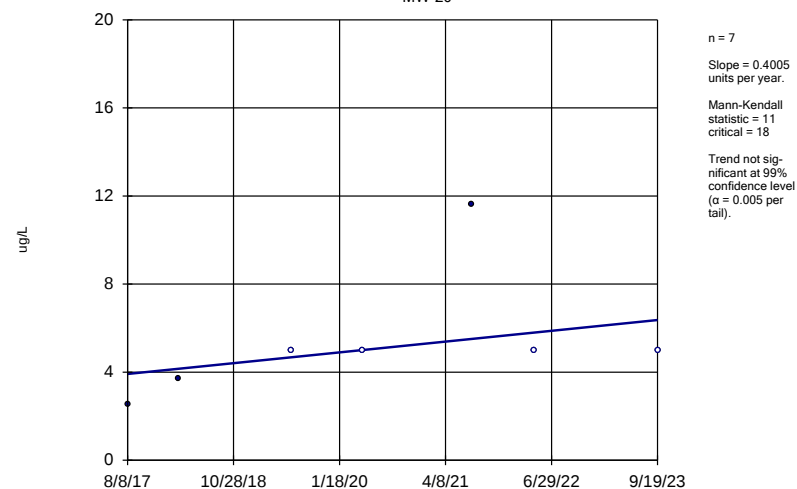
MW-19



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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope Estimator

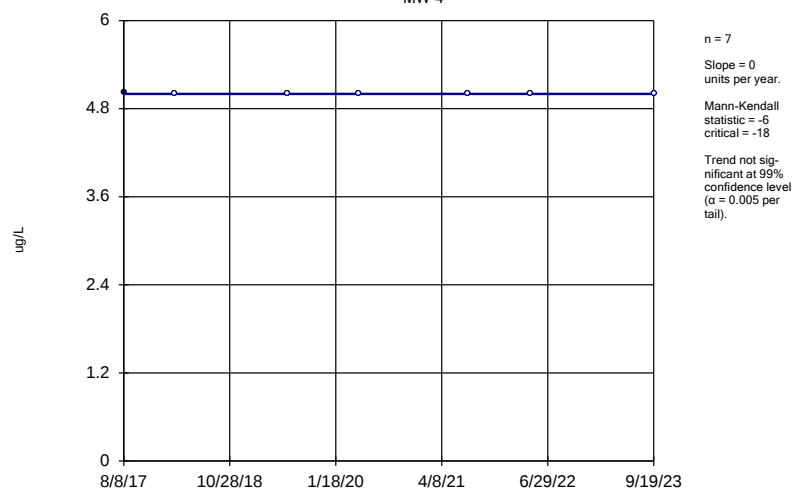
MW-20



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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope Estimator

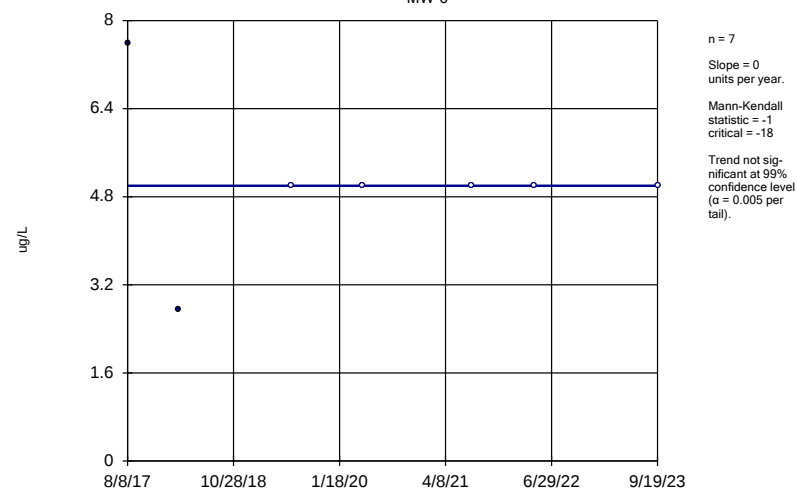
MW-4



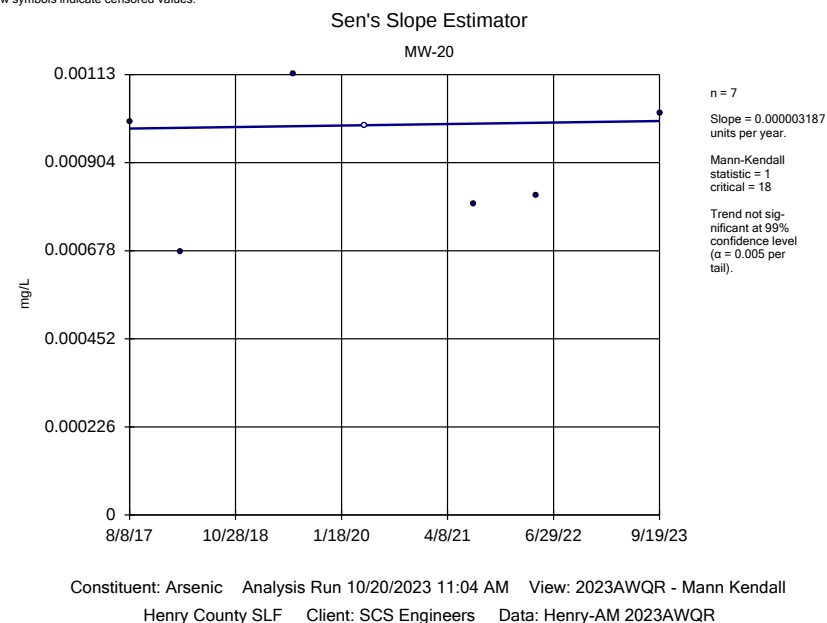
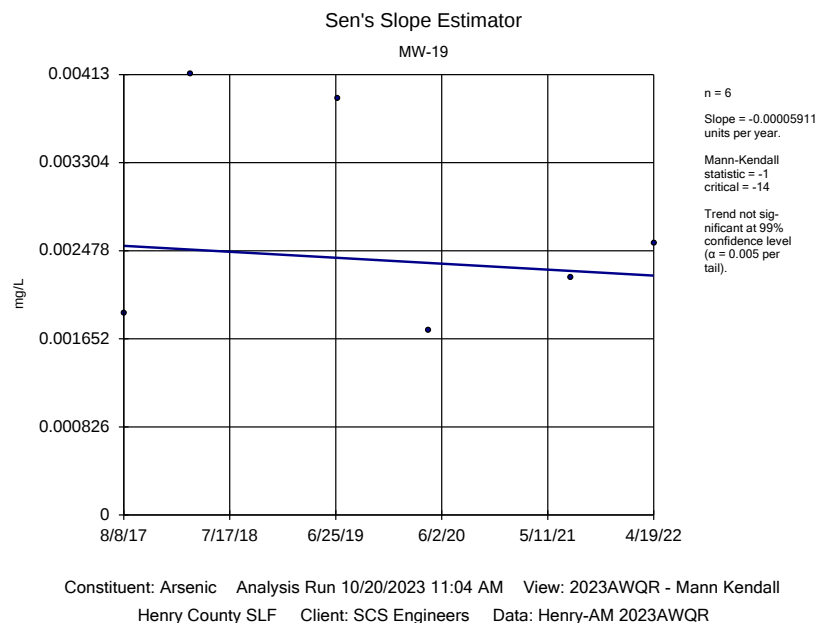
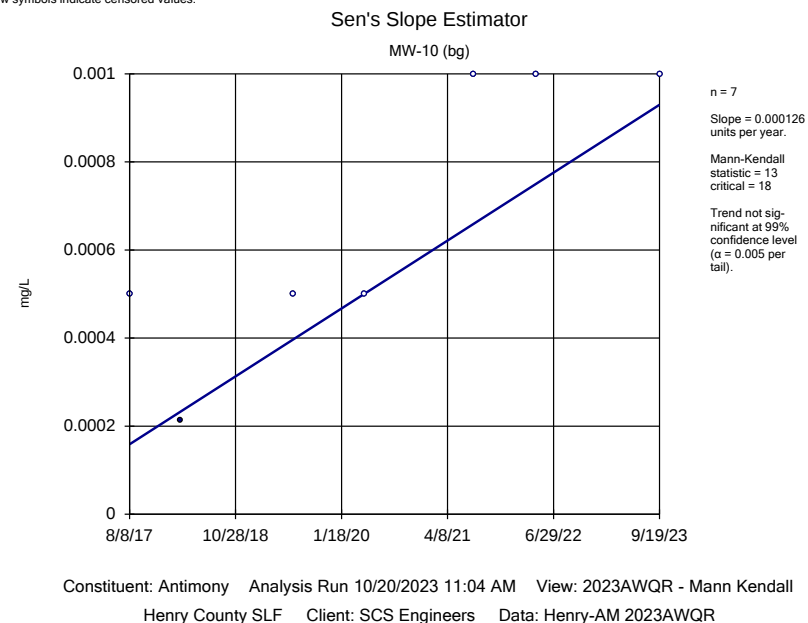
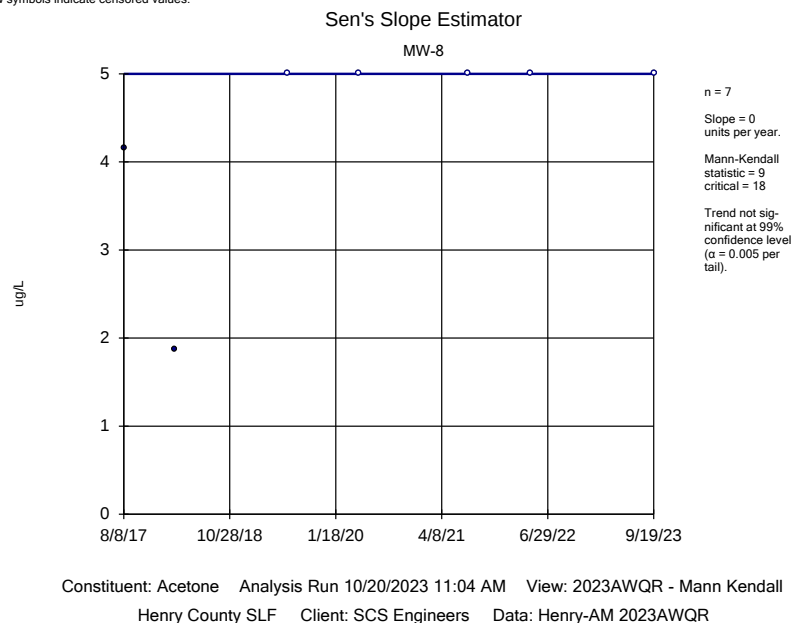
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

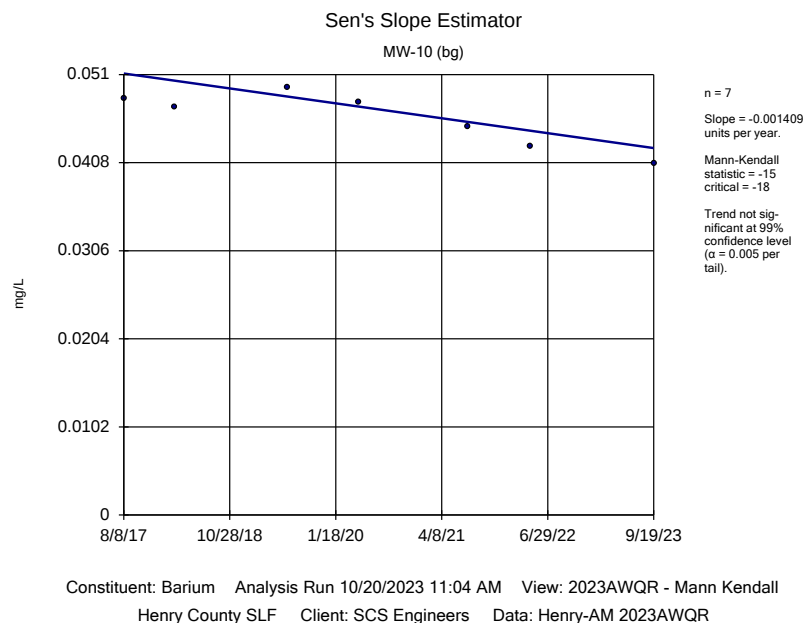
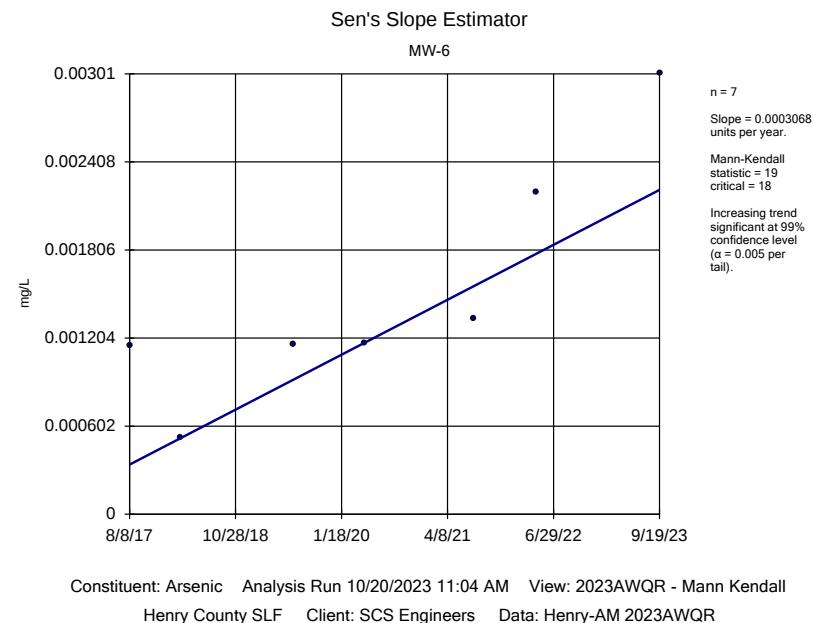
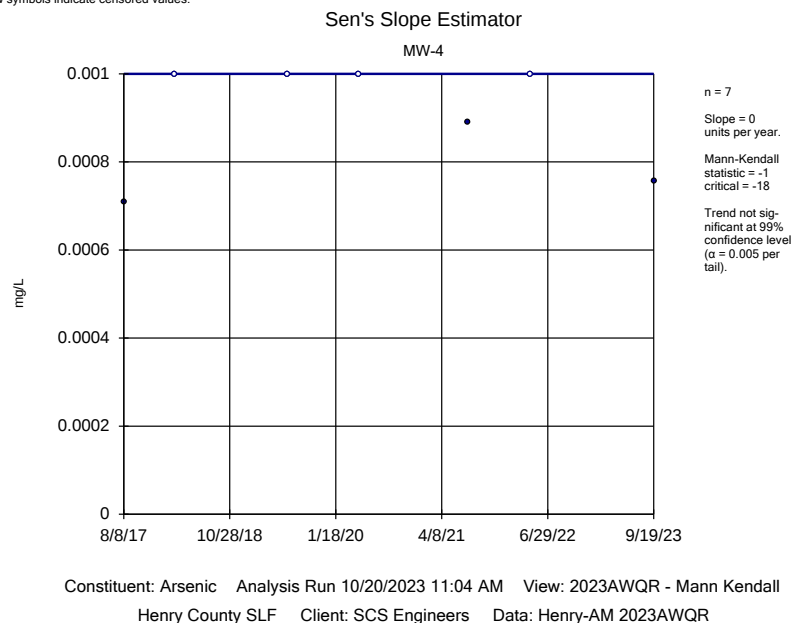
Sen's Slope Estimator

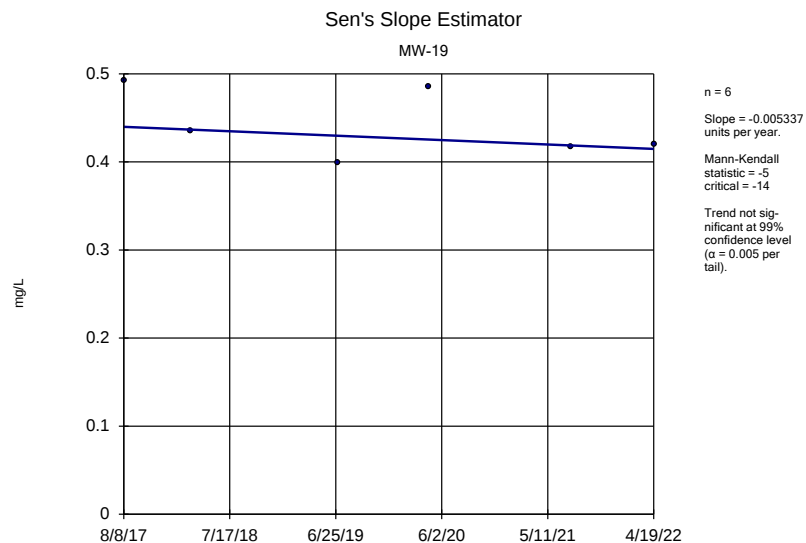
MW-6



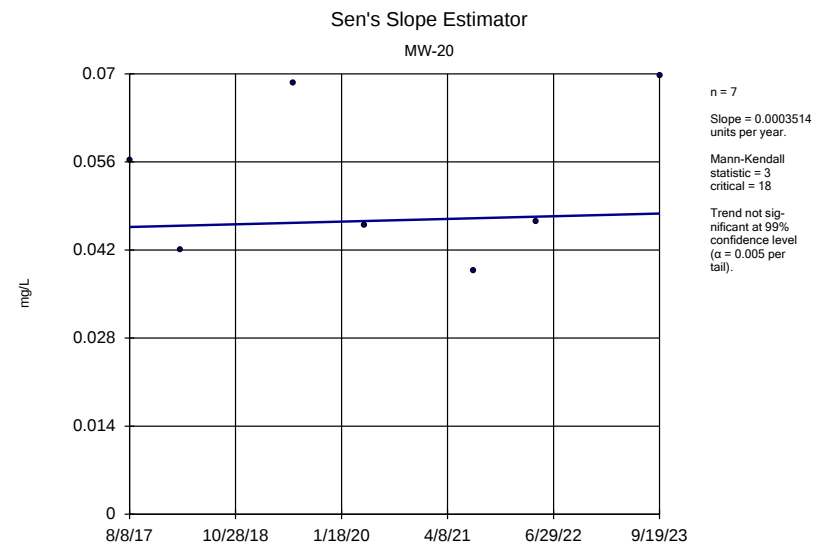
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



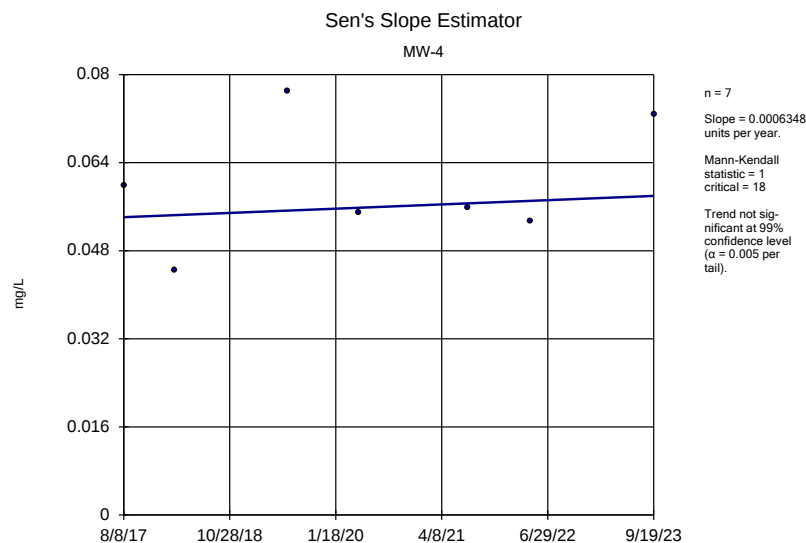




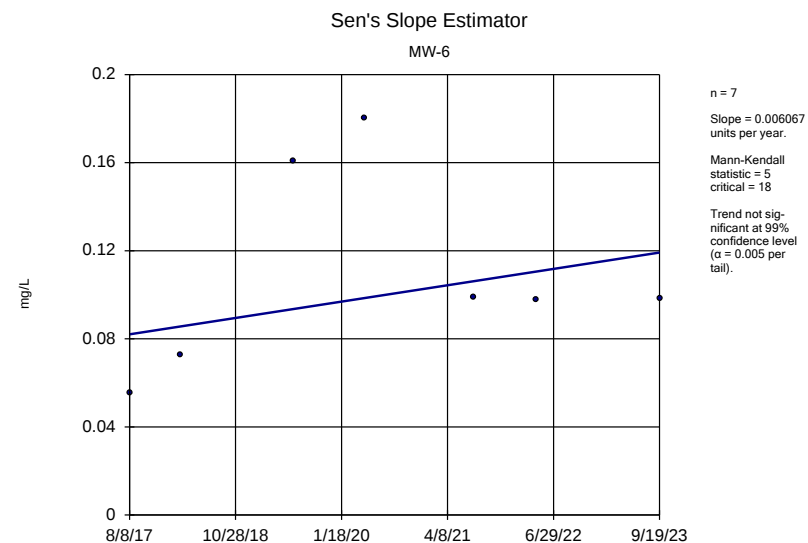
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



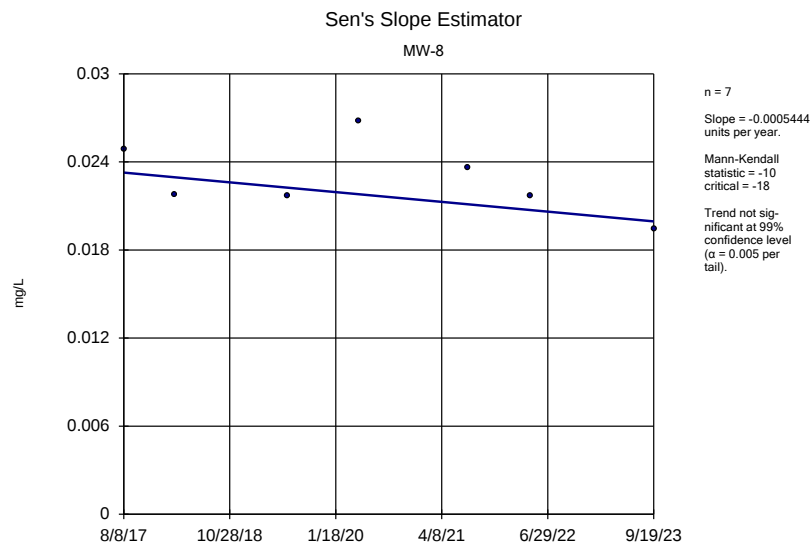
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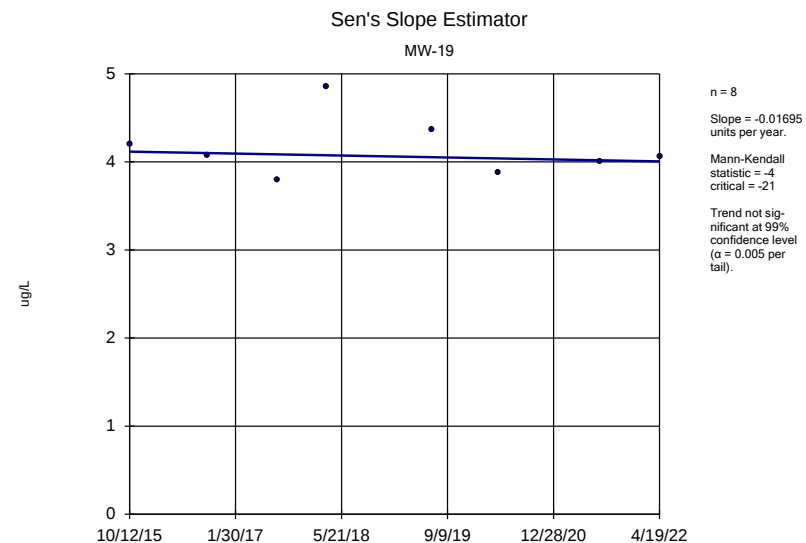
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



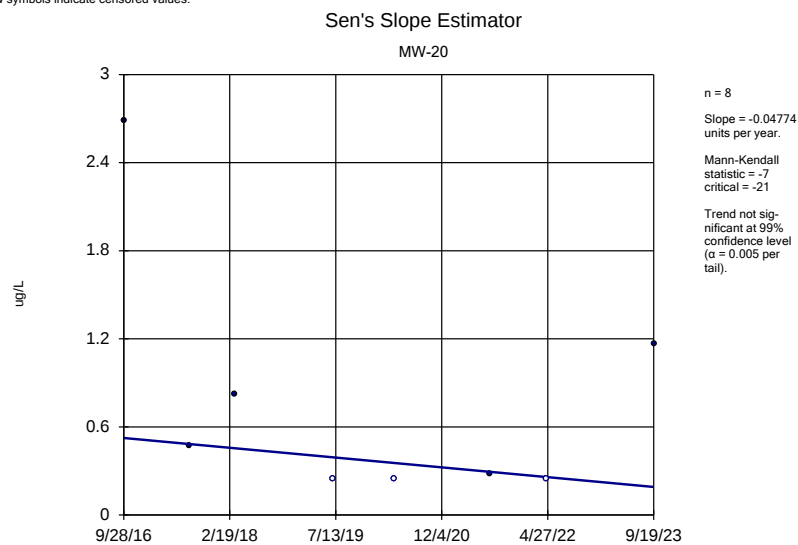
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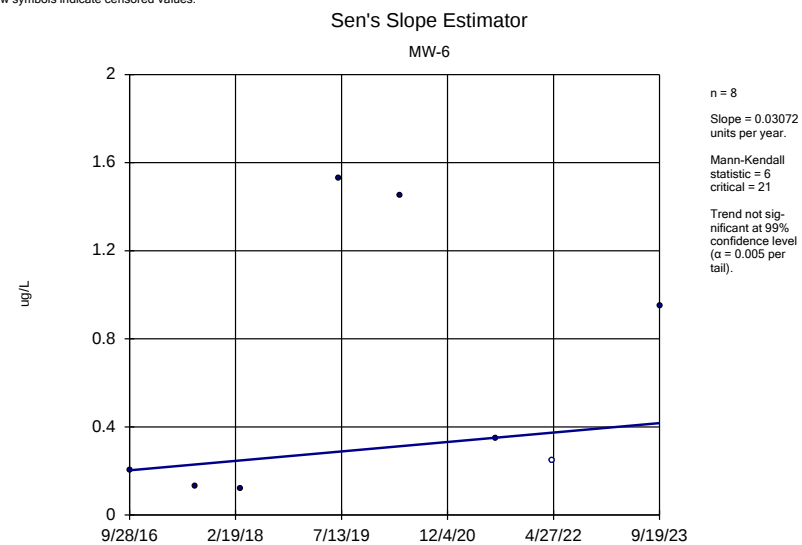
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



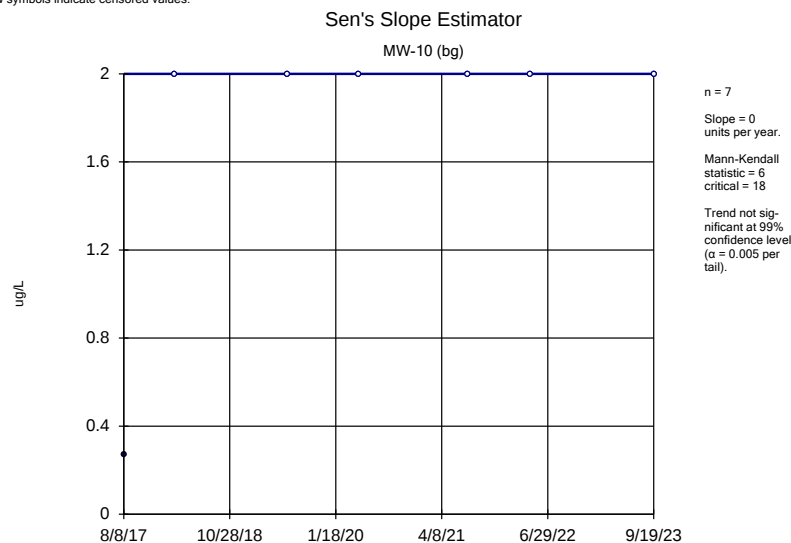
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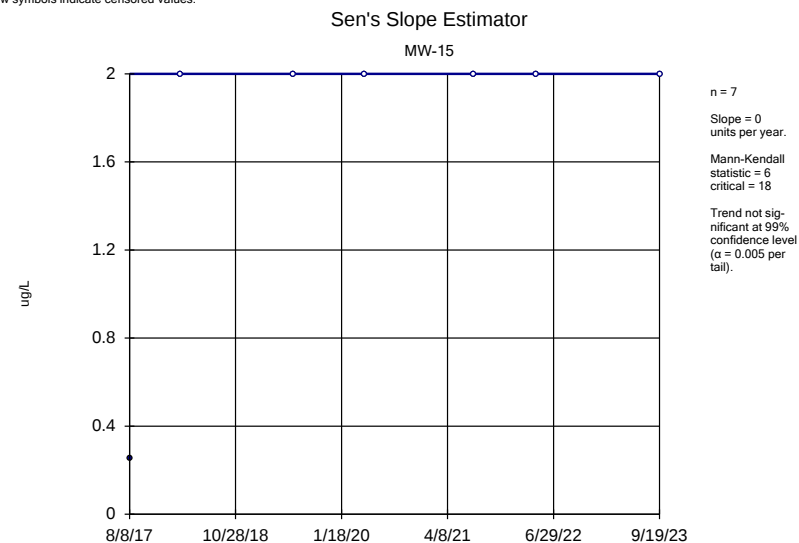
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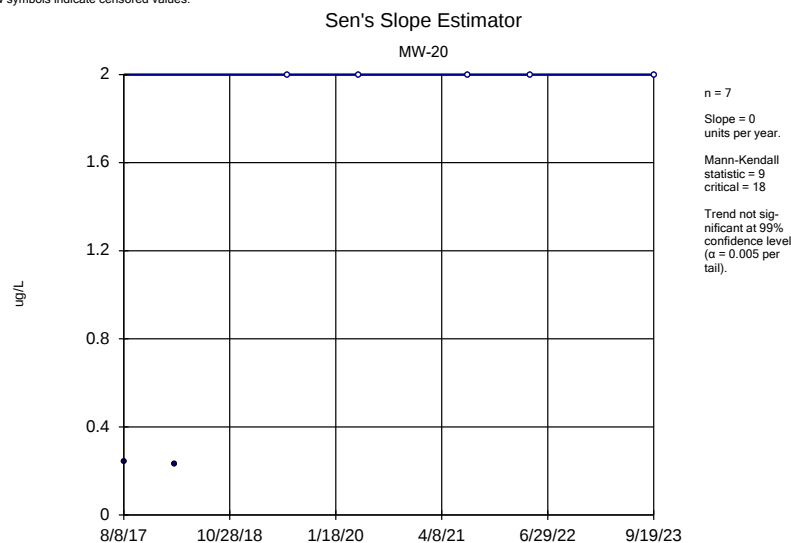
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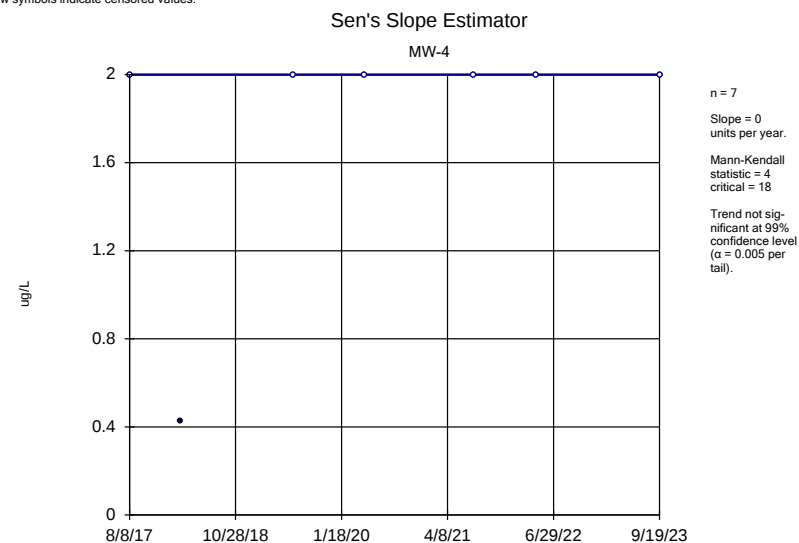
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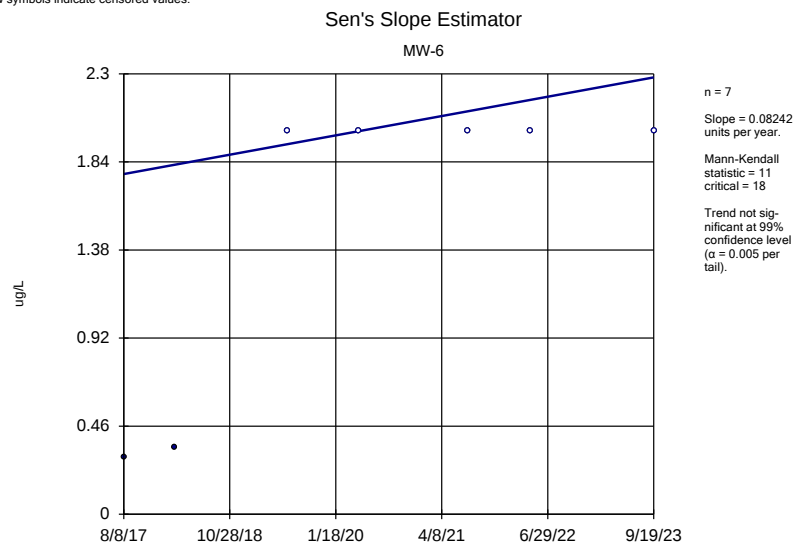
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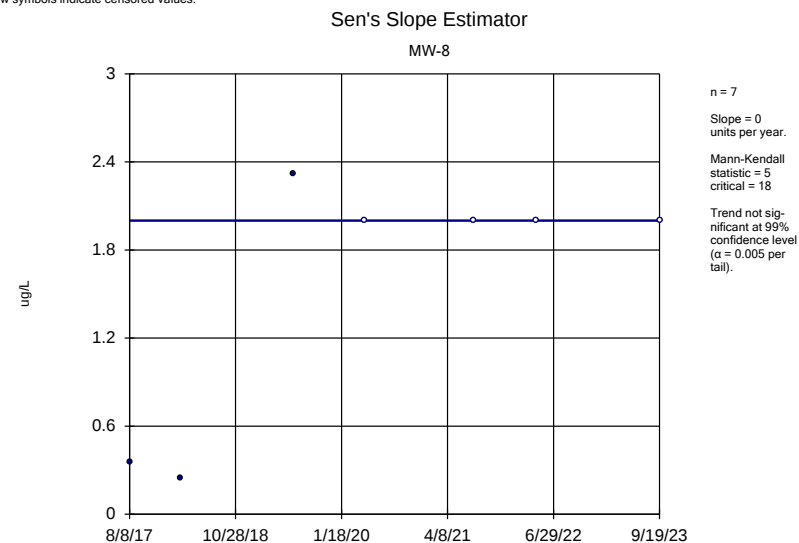
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



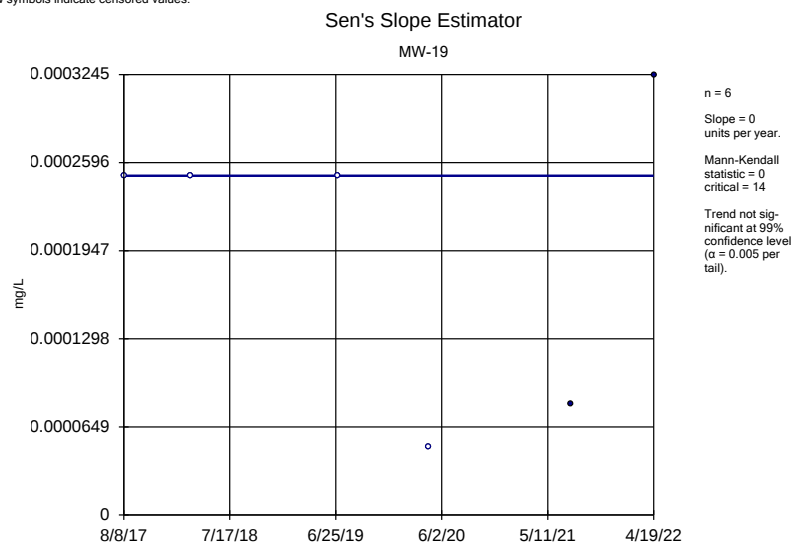
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



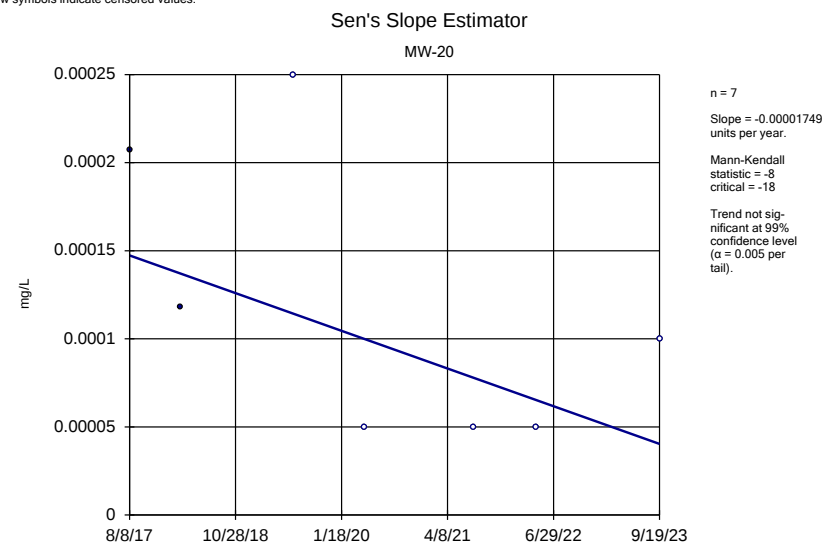
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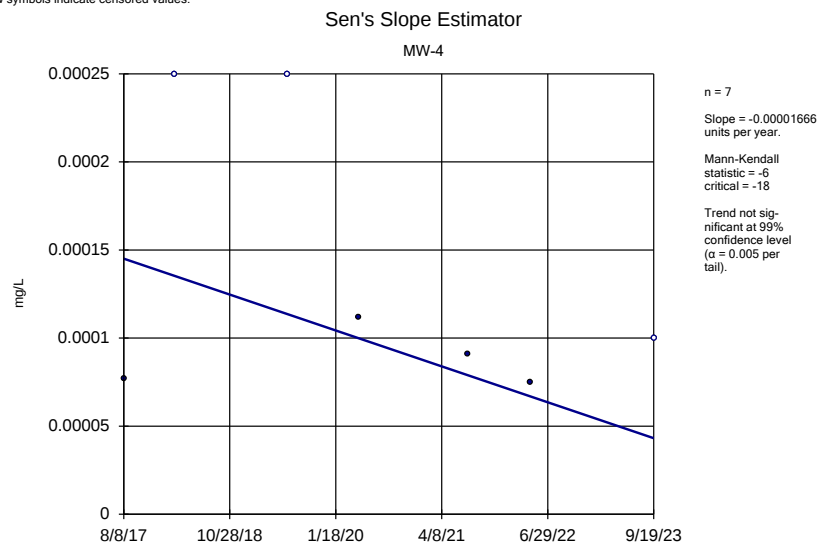
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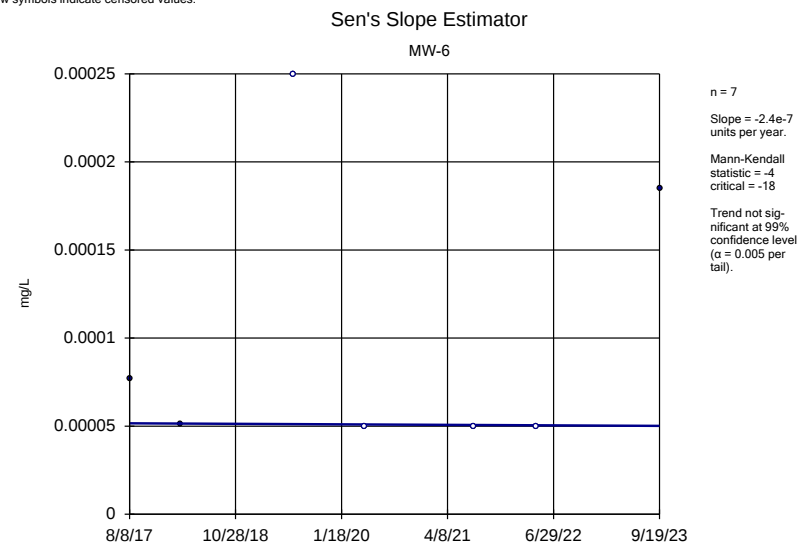
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



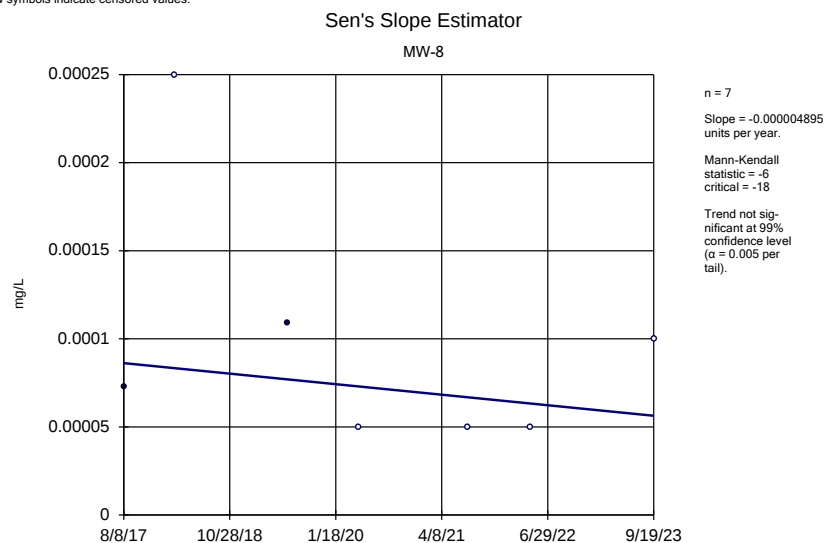
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



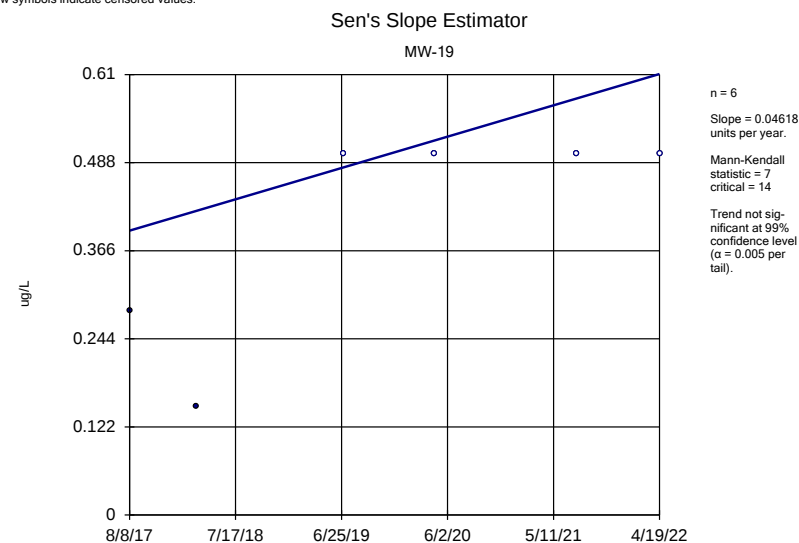
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



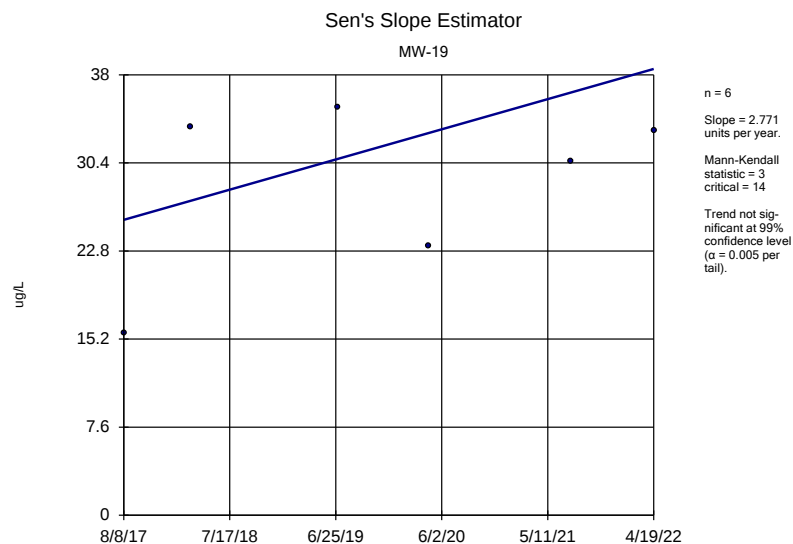
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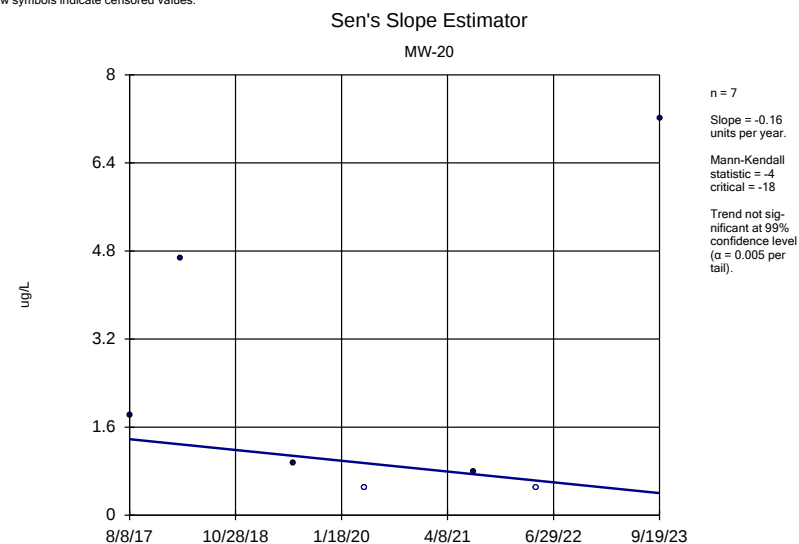
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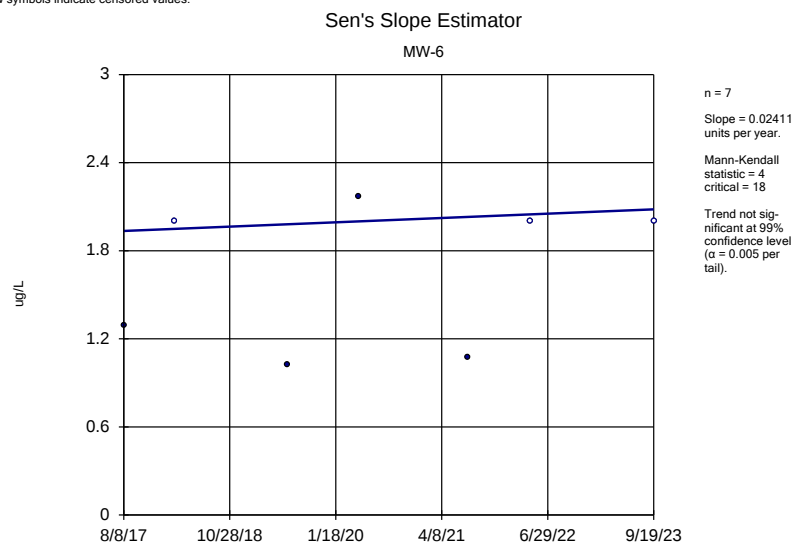
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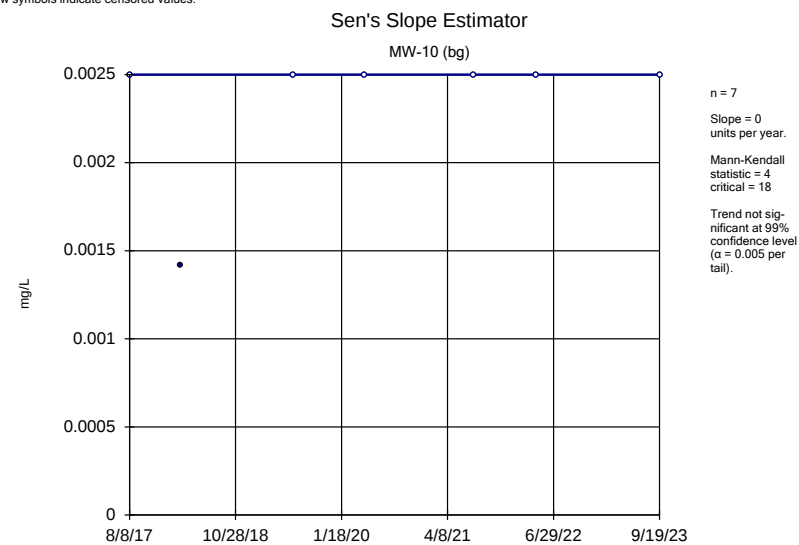
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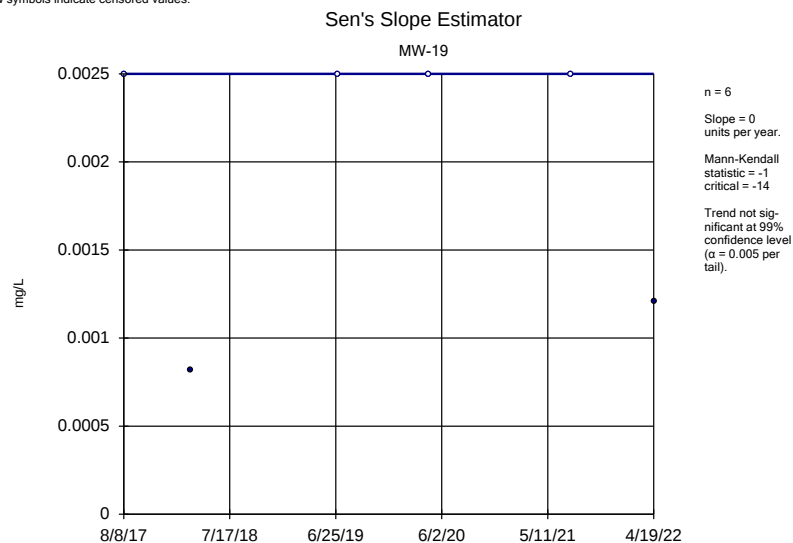
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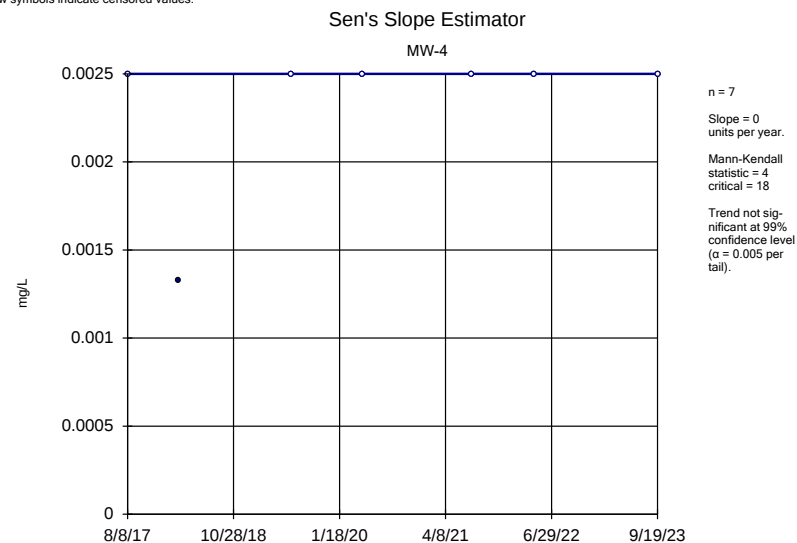
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



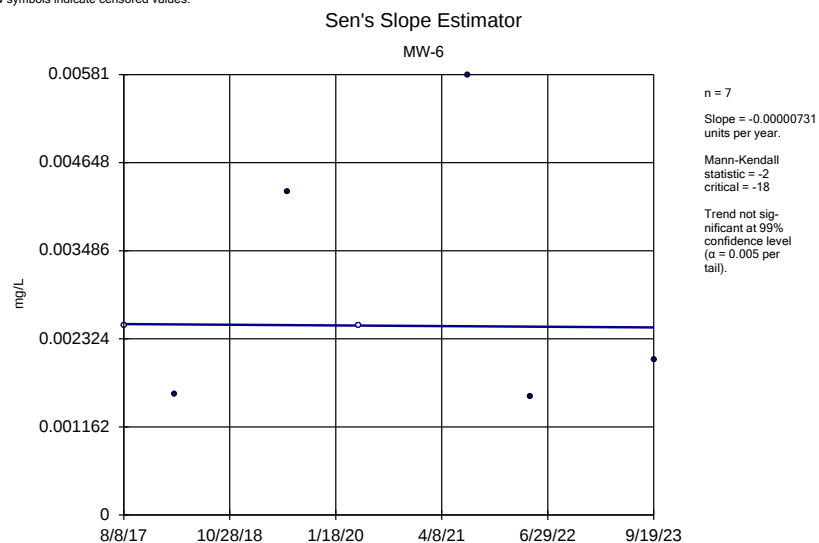
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



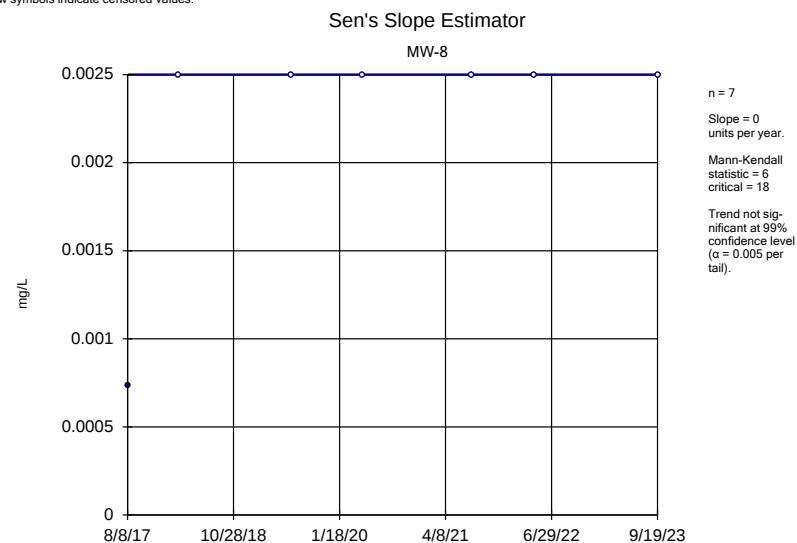
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



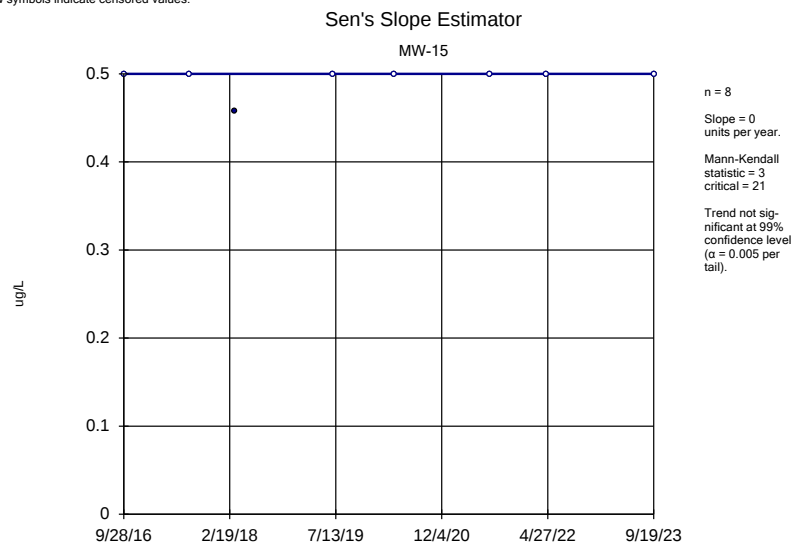
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



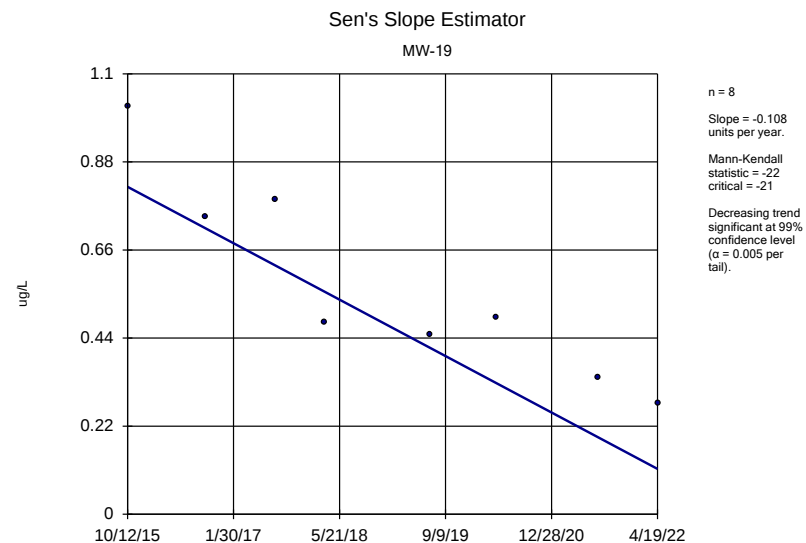
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



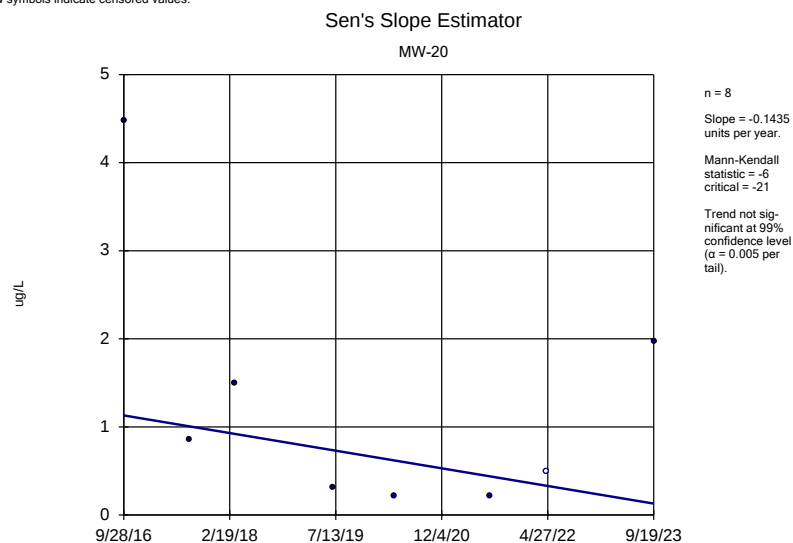
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



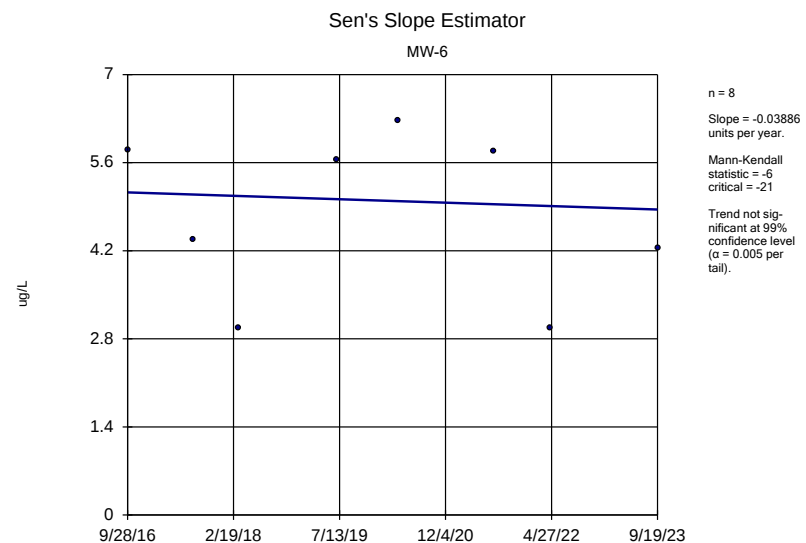
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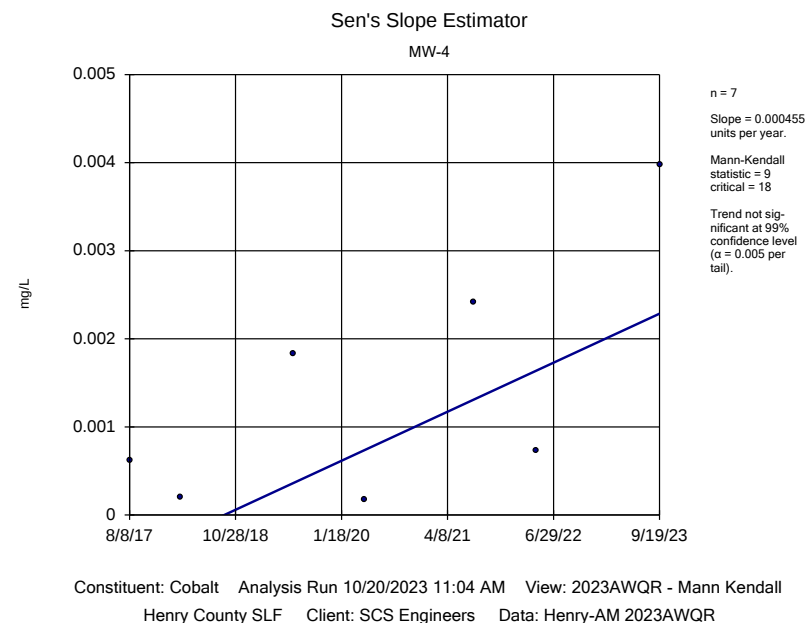
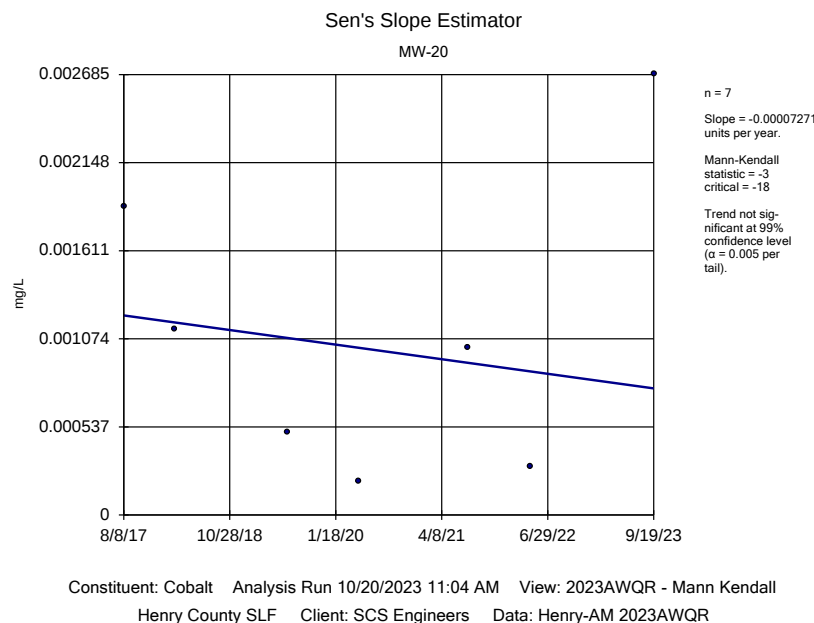
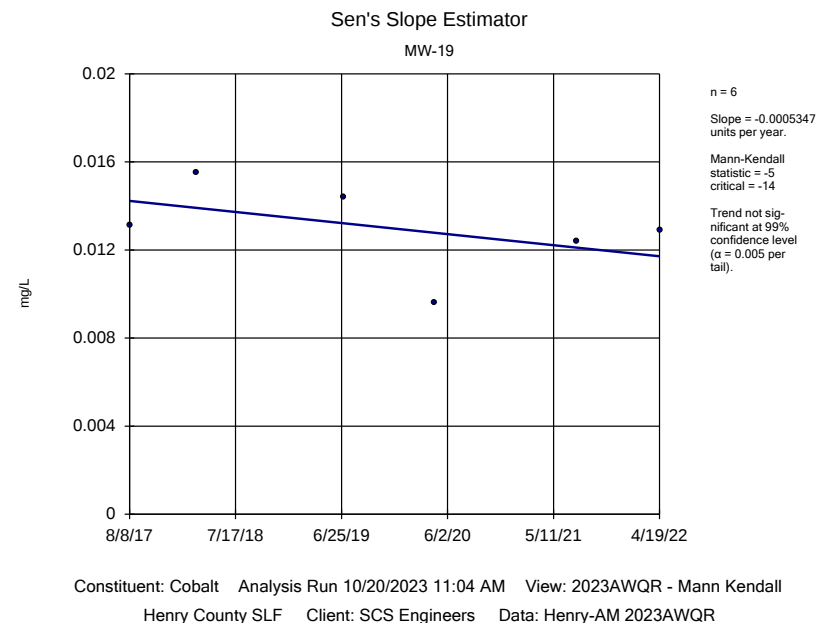
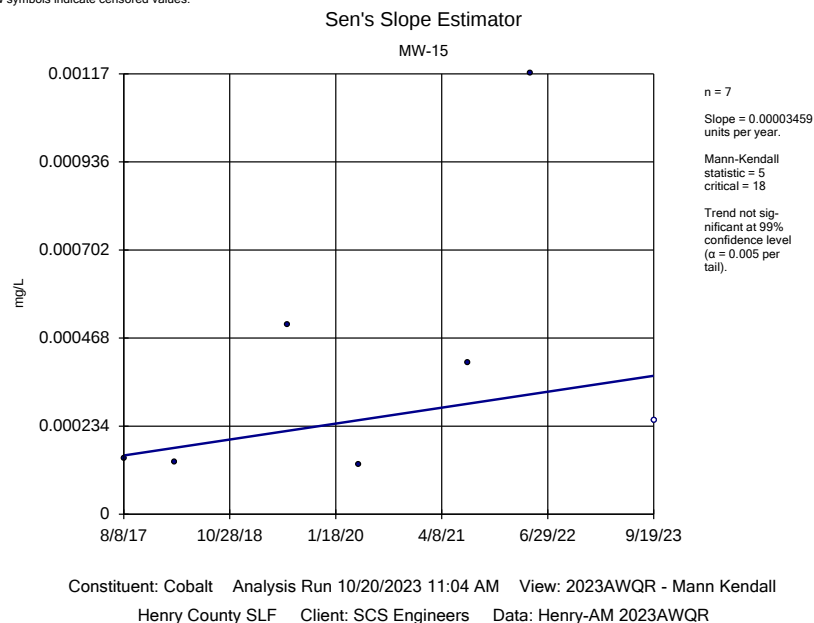
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



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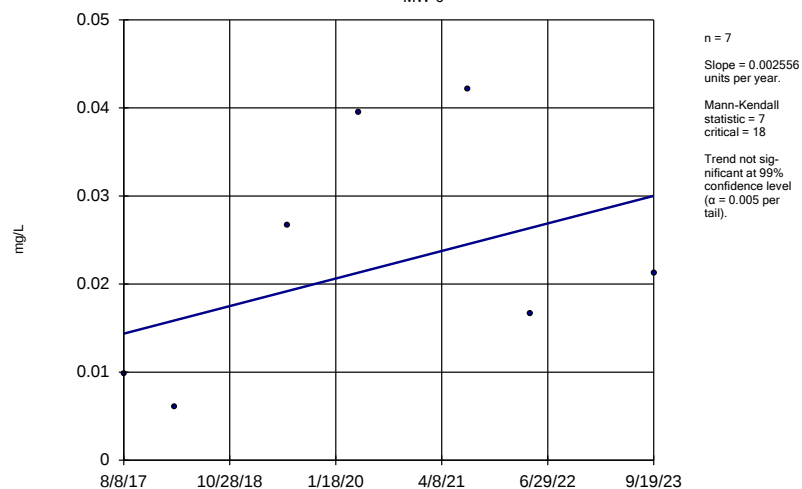


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Sen's Slope Estimator

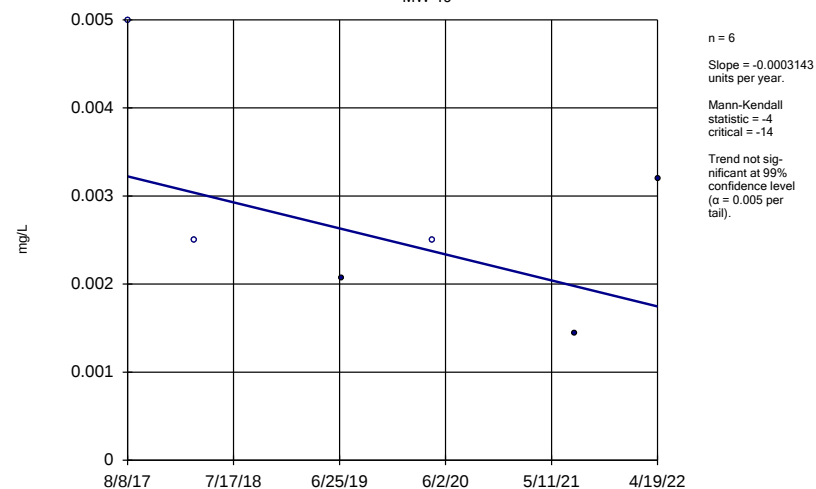
MW-6



Constituent: Cobalt Analysis Run 10/20/2023 11:04 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope Estimator

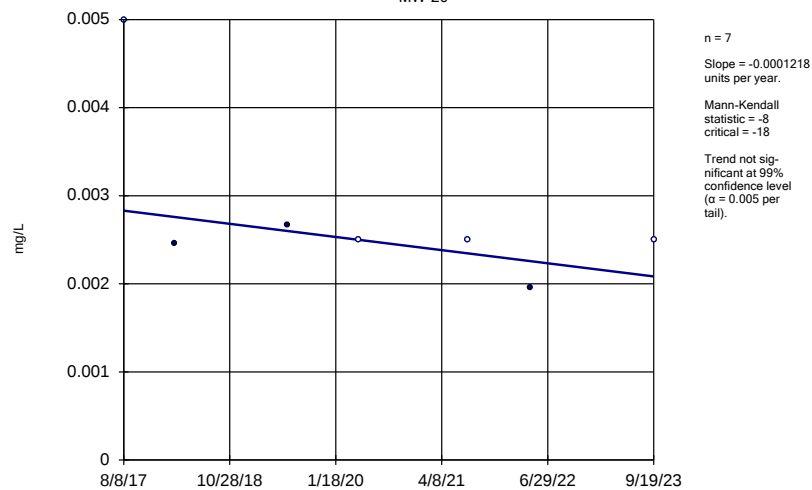
MW-19



Constituent: Copper Analysis Run 10/20/2023 11:04 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope Estimator

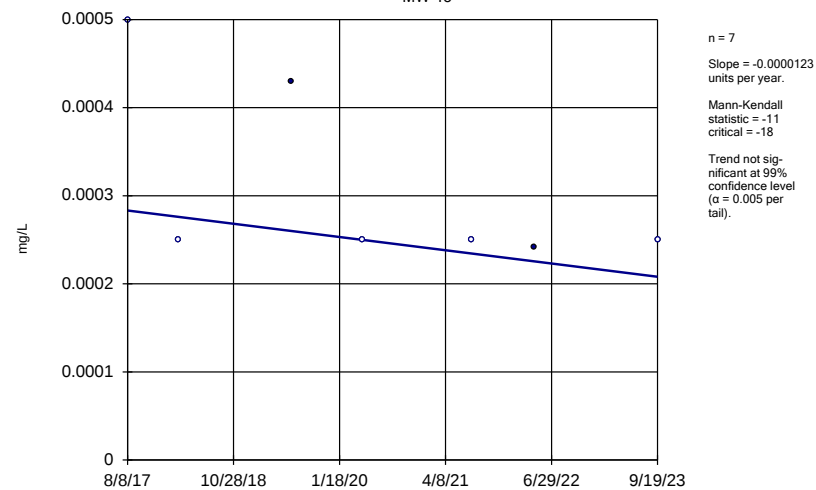
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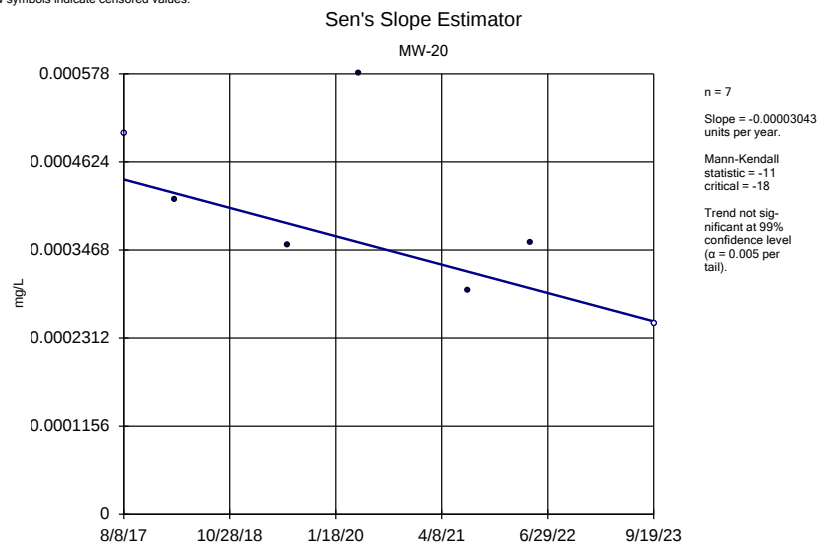
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

Sen's Slope Estimator

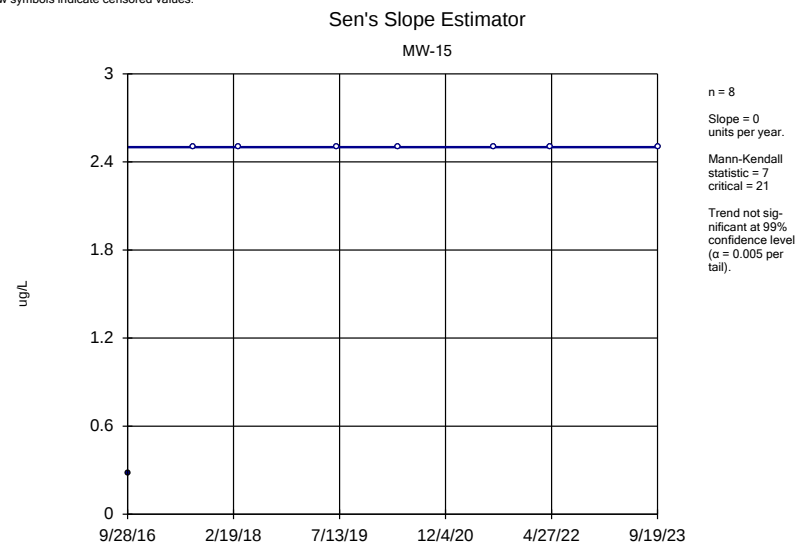
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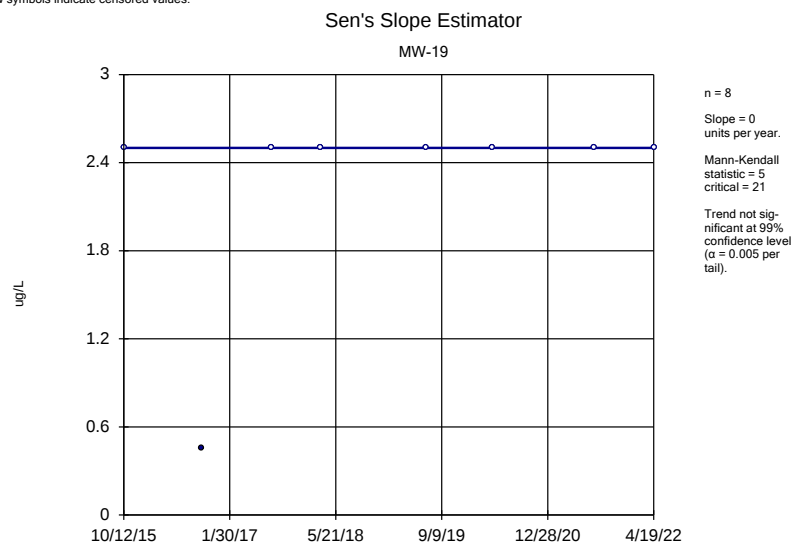
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



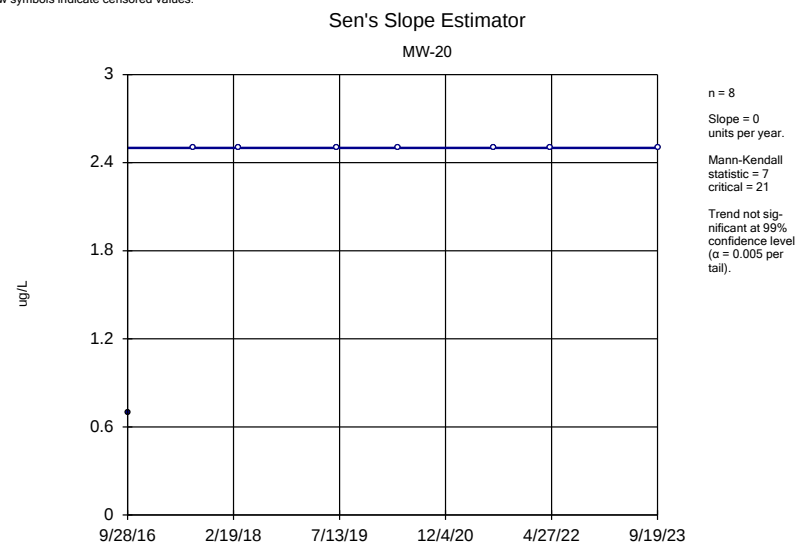
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



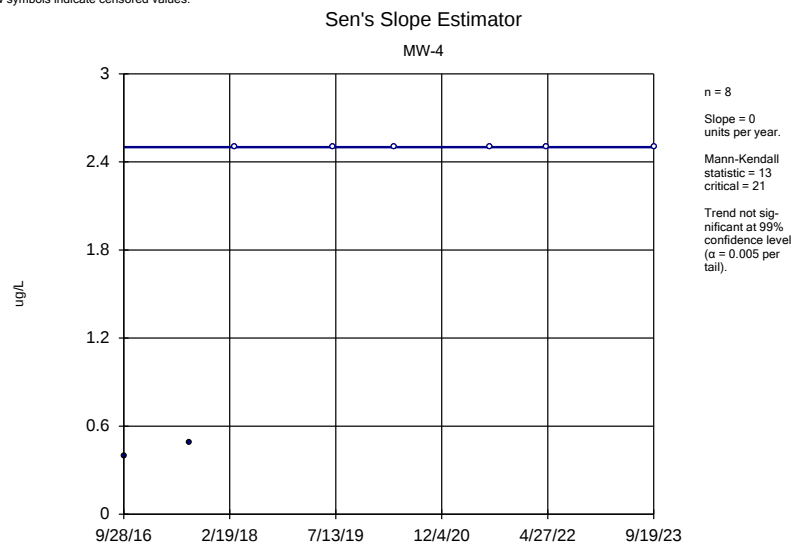
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



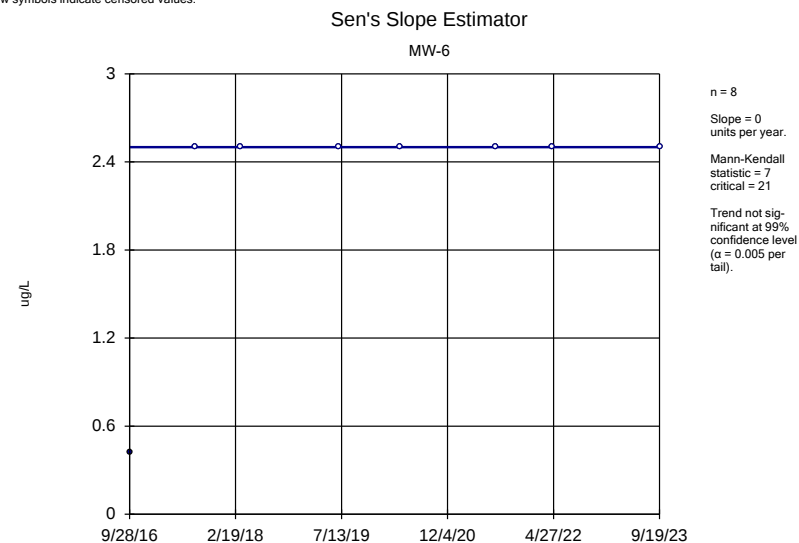
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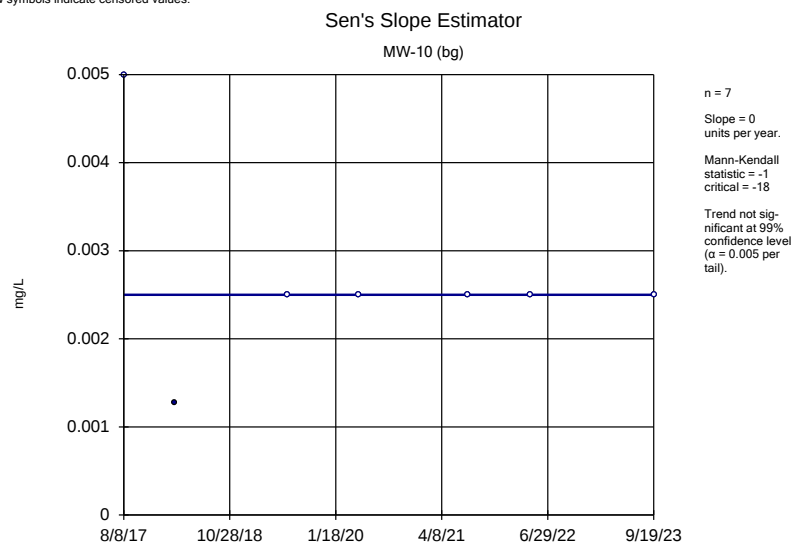
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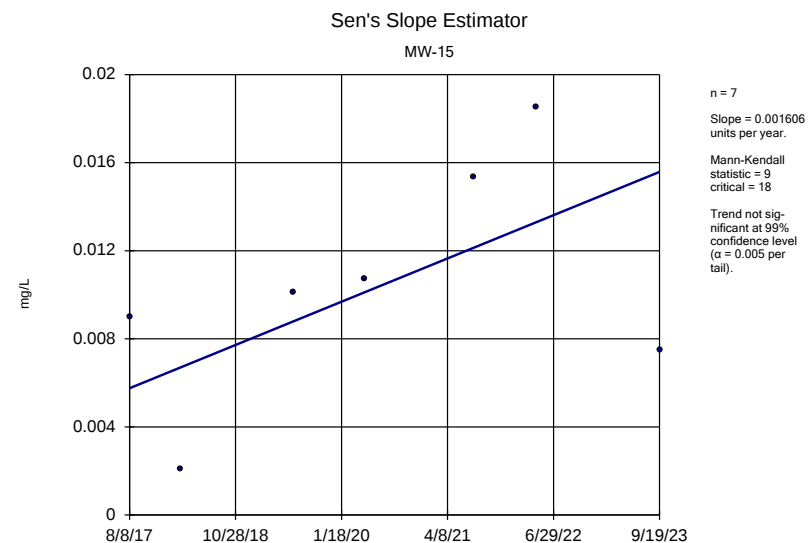
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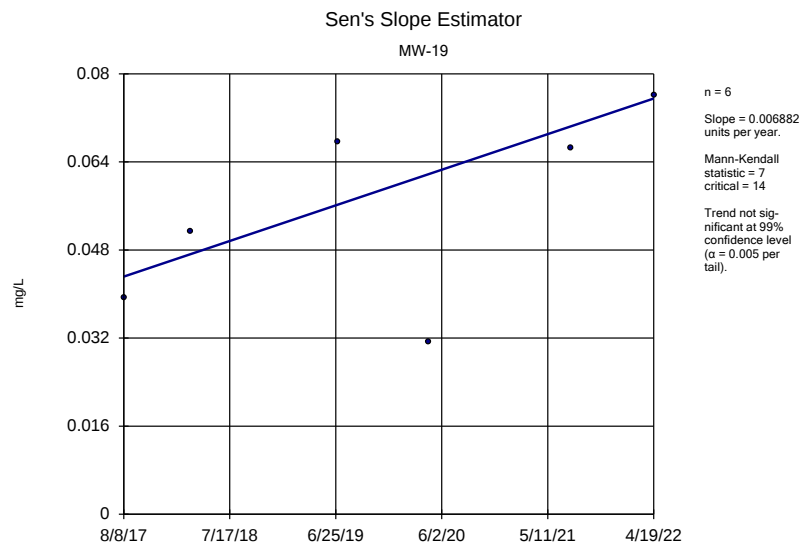
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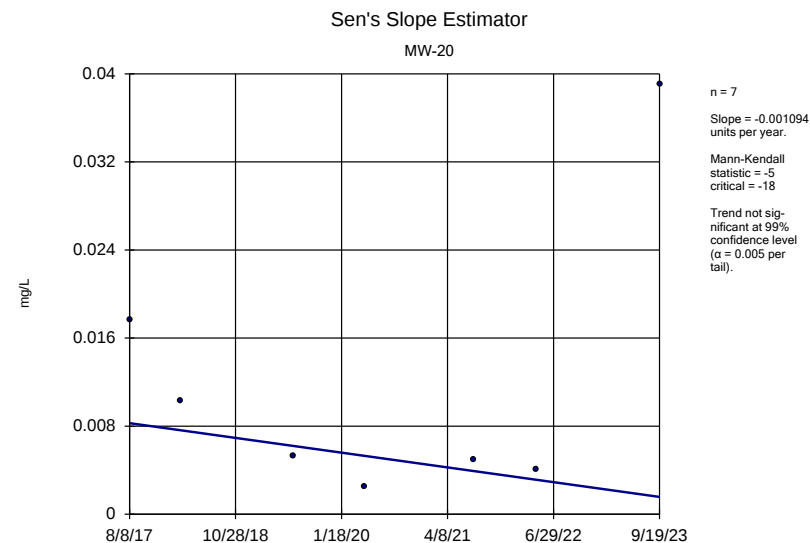
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



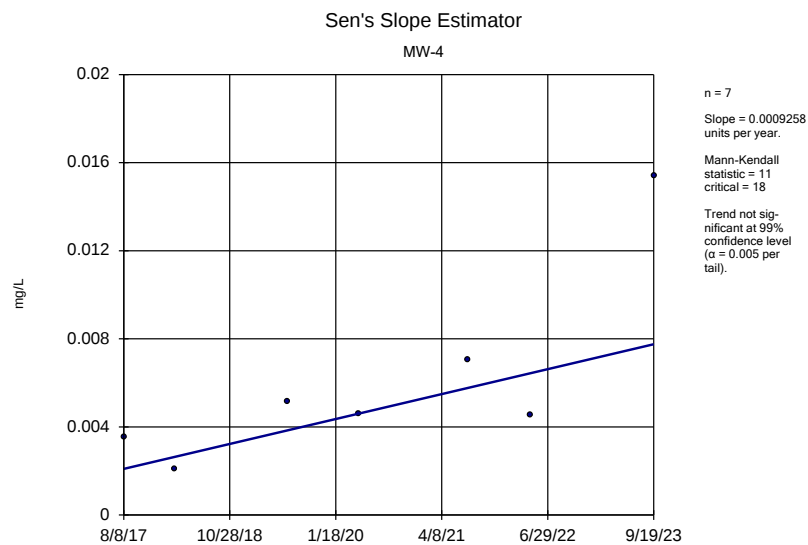
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



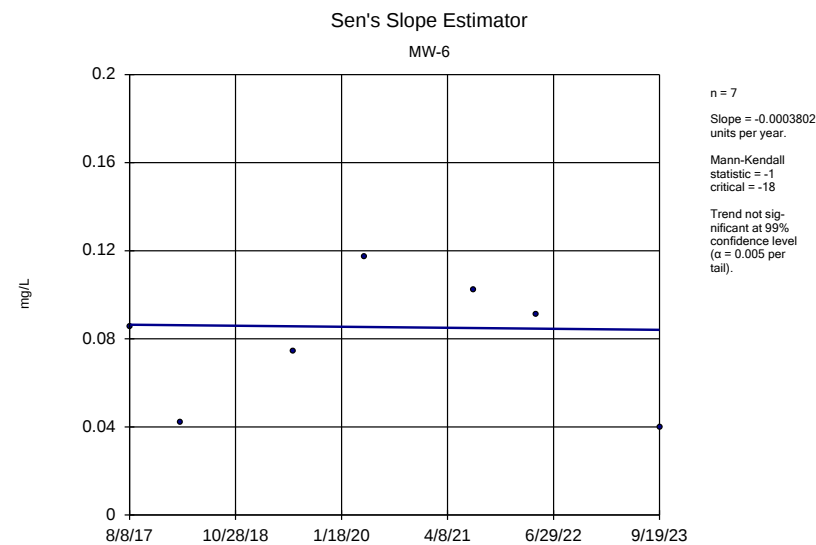
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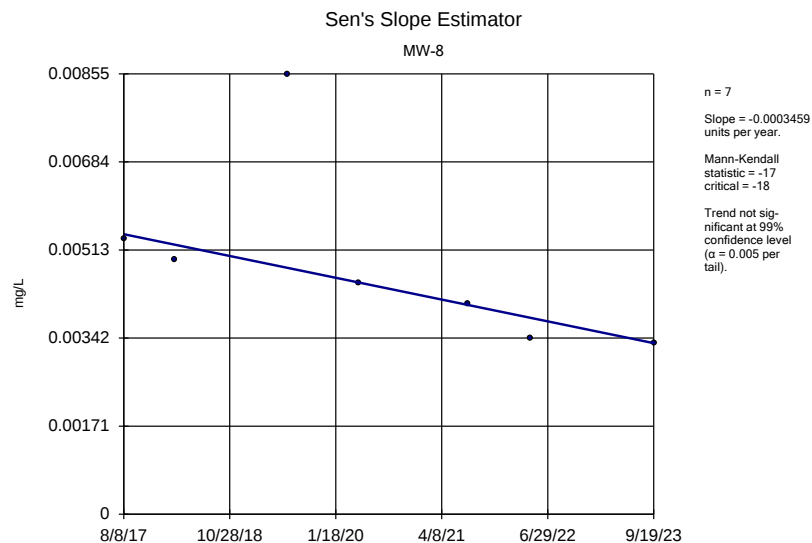
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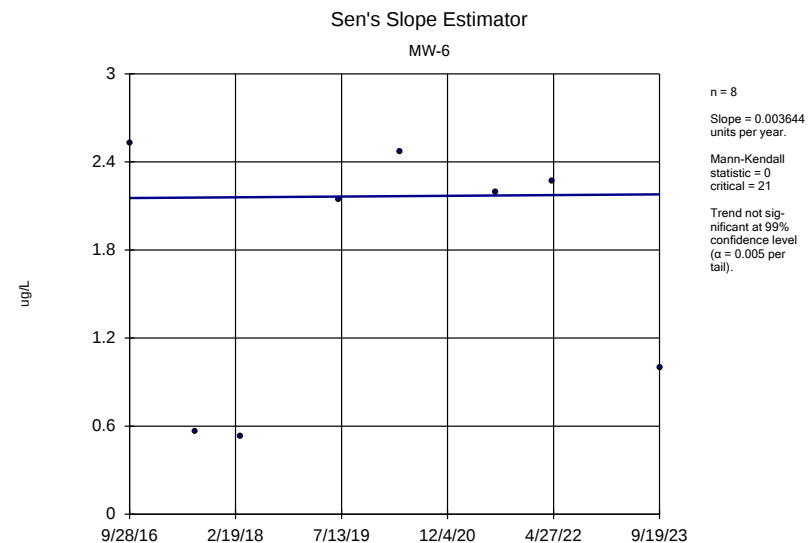
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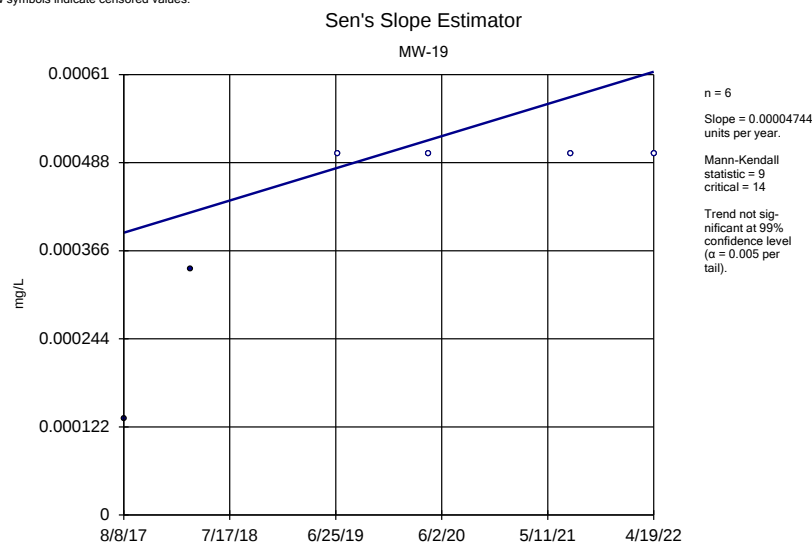
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



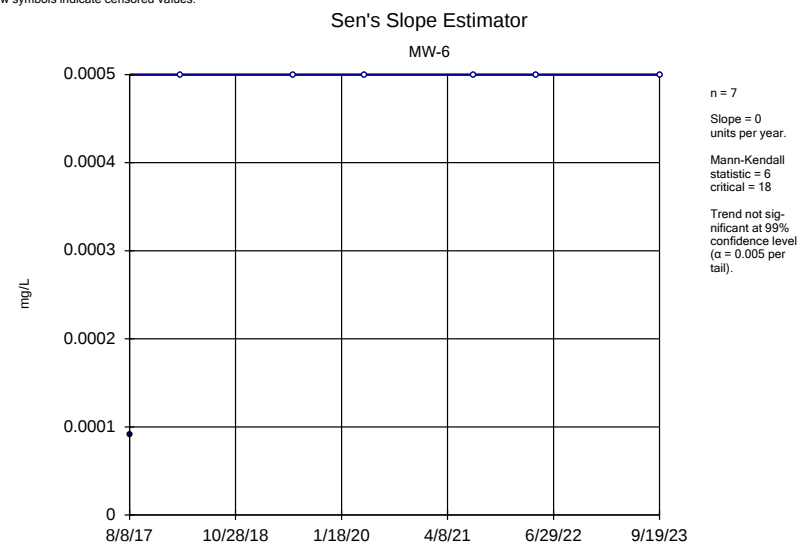
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



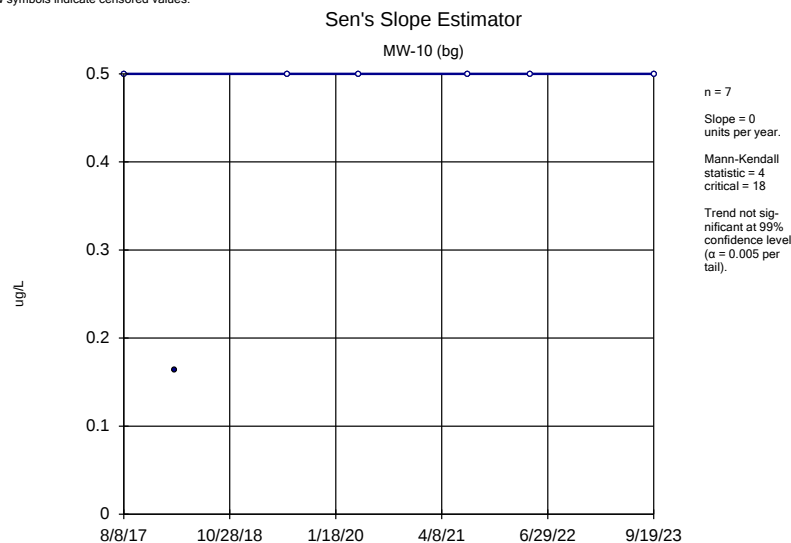
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



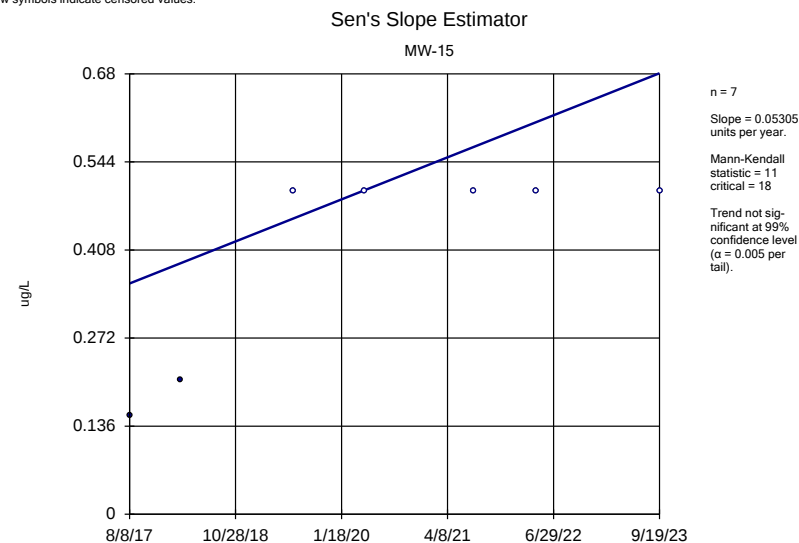
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



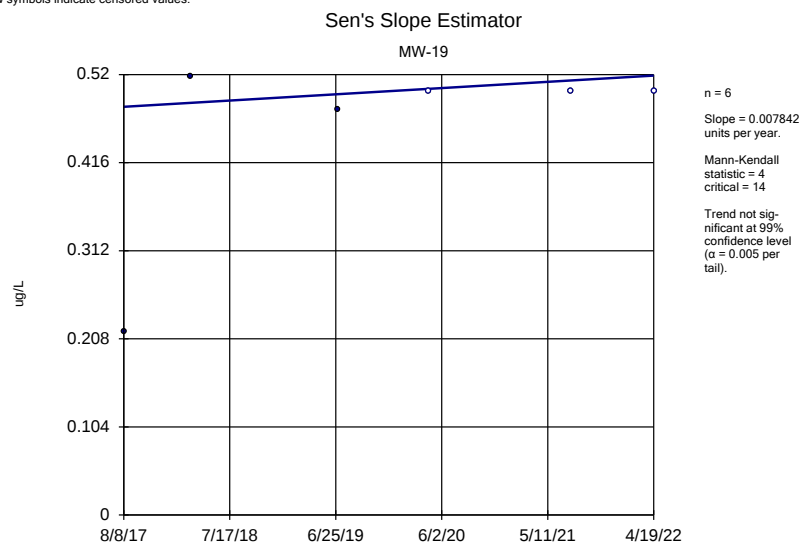
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



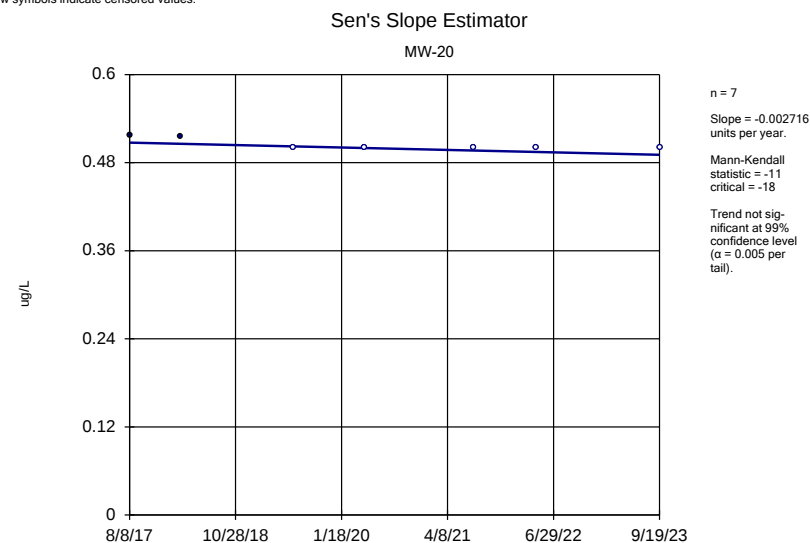
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



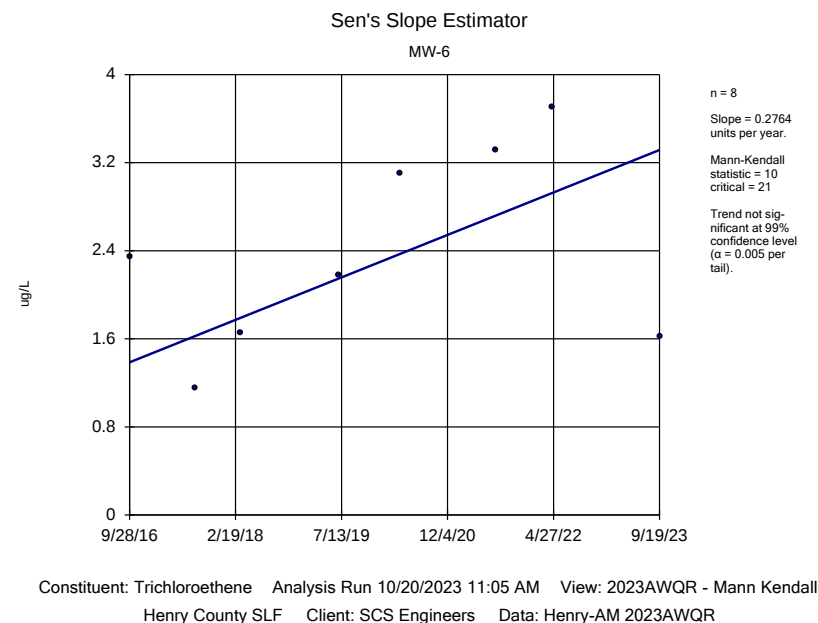
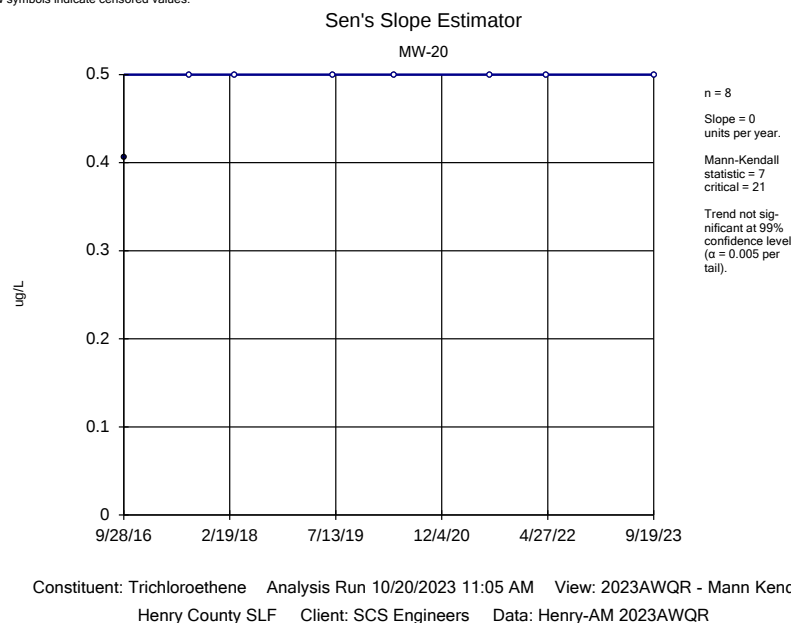
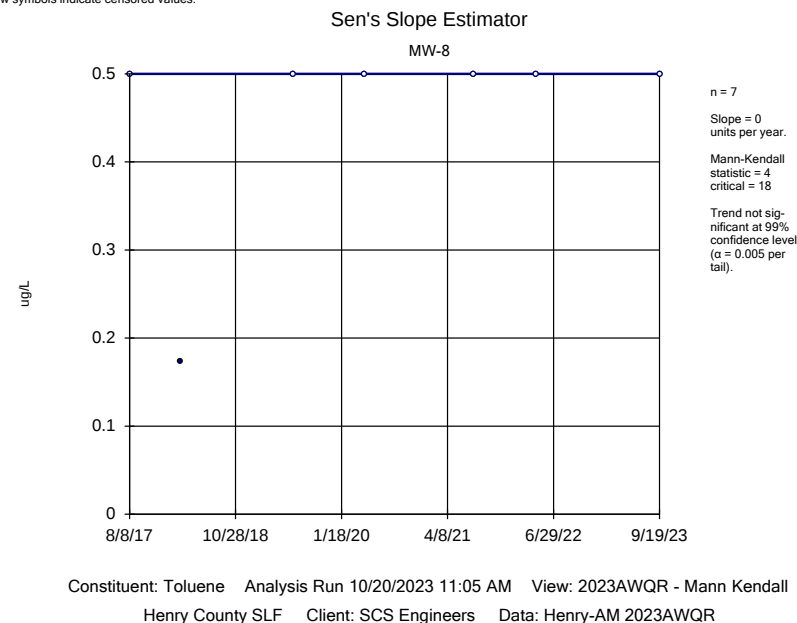
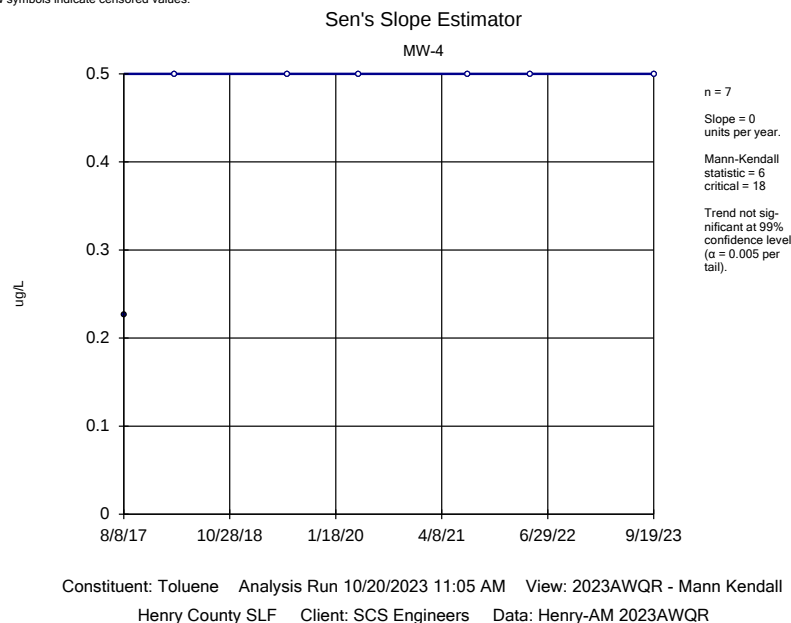
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Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR

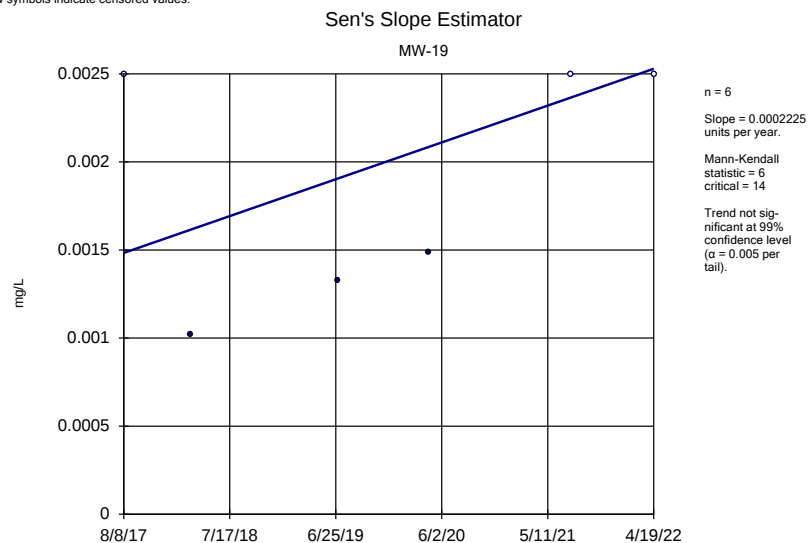


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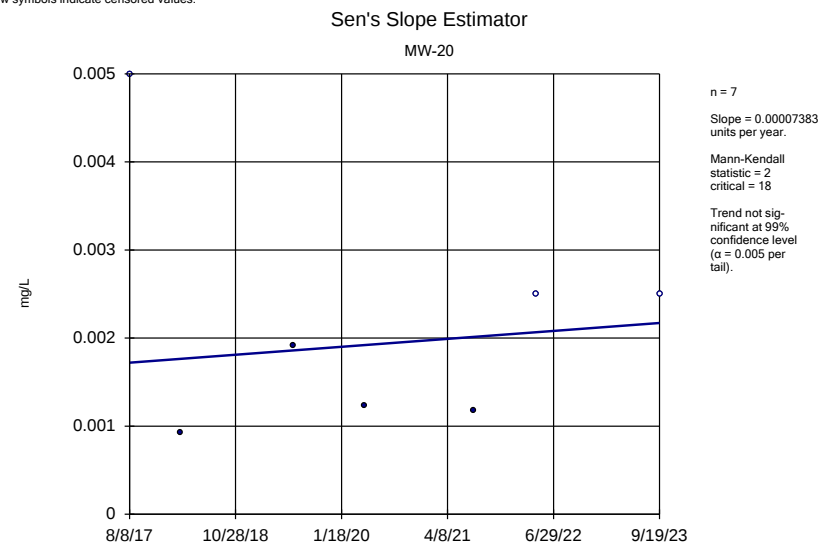


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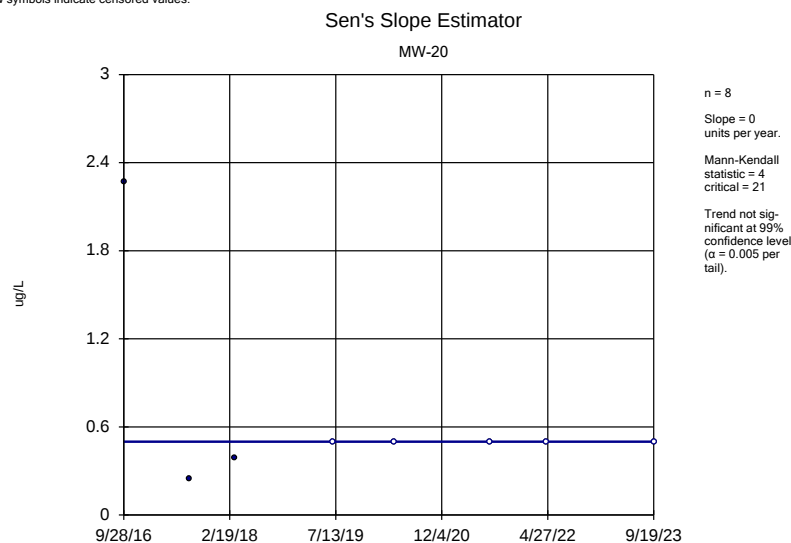




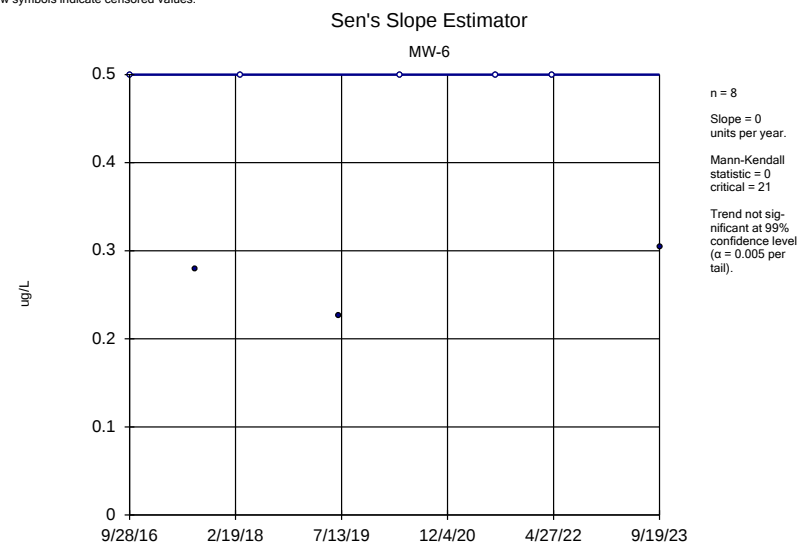
Constituent: Vanadium Analysis Run 10/20/2023 11:05 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



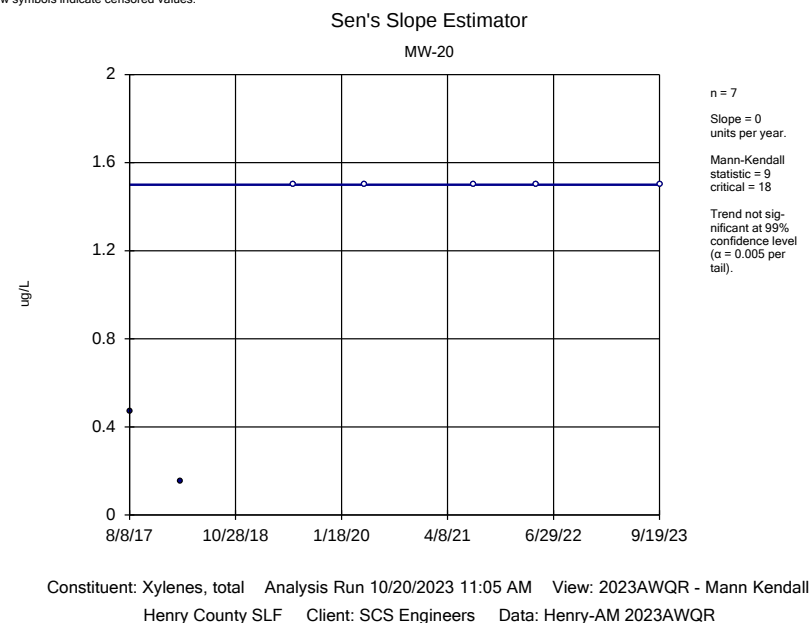
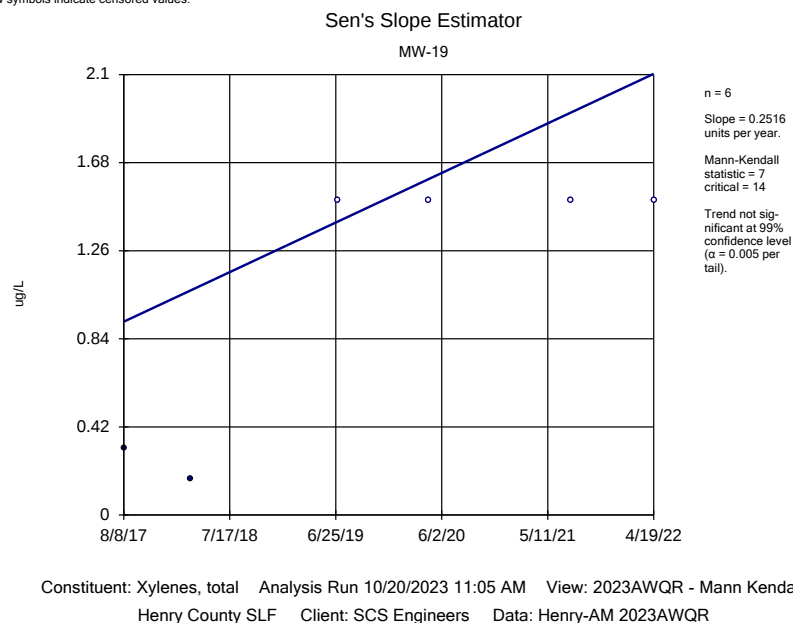
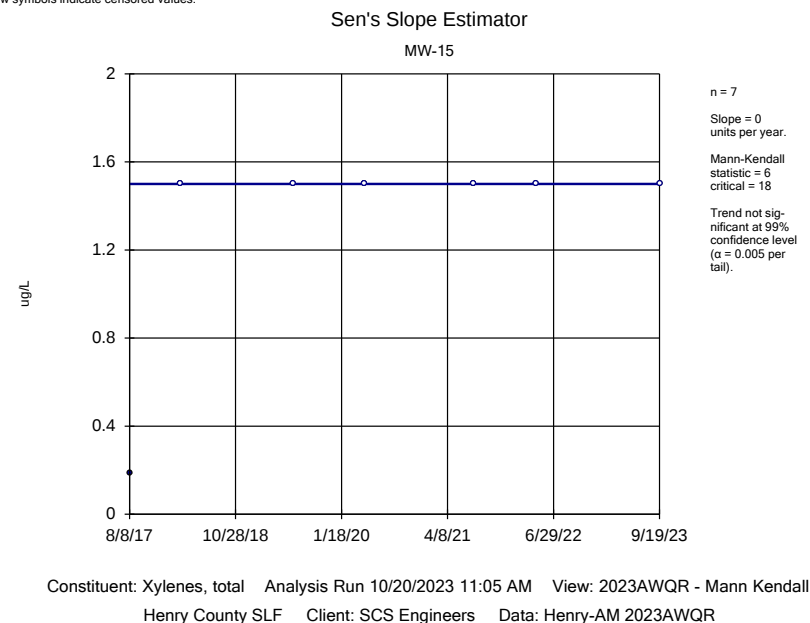
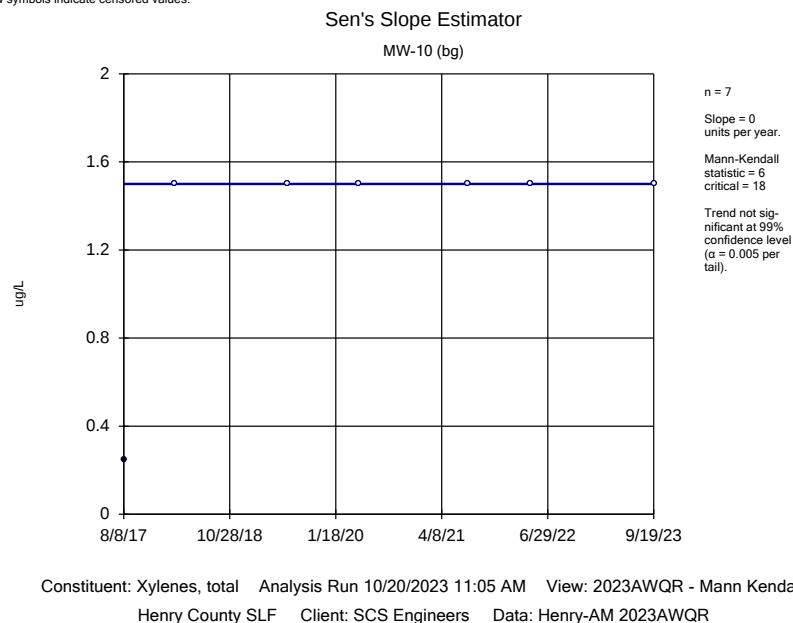
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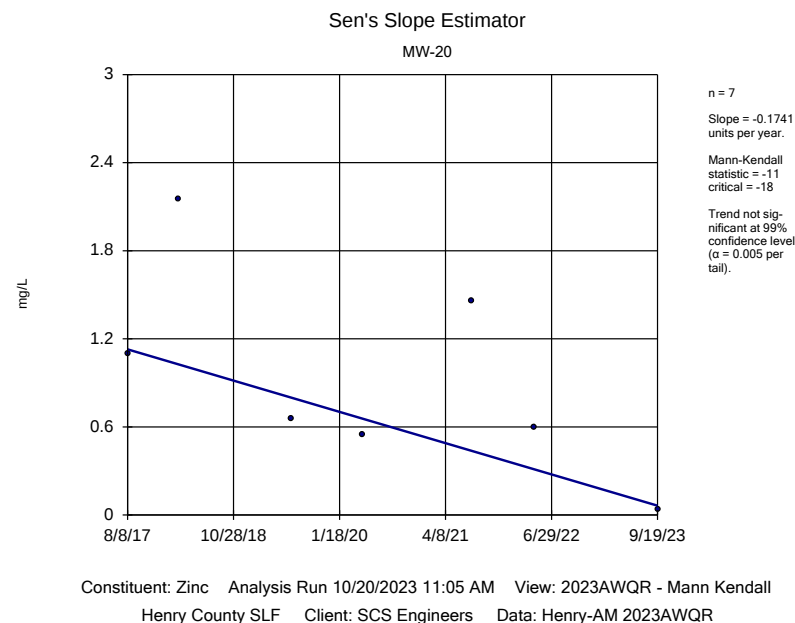
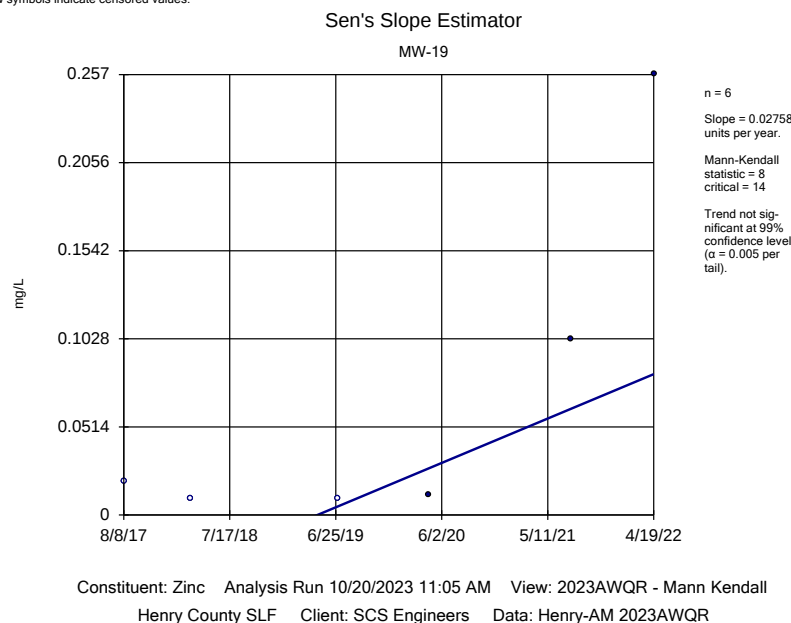
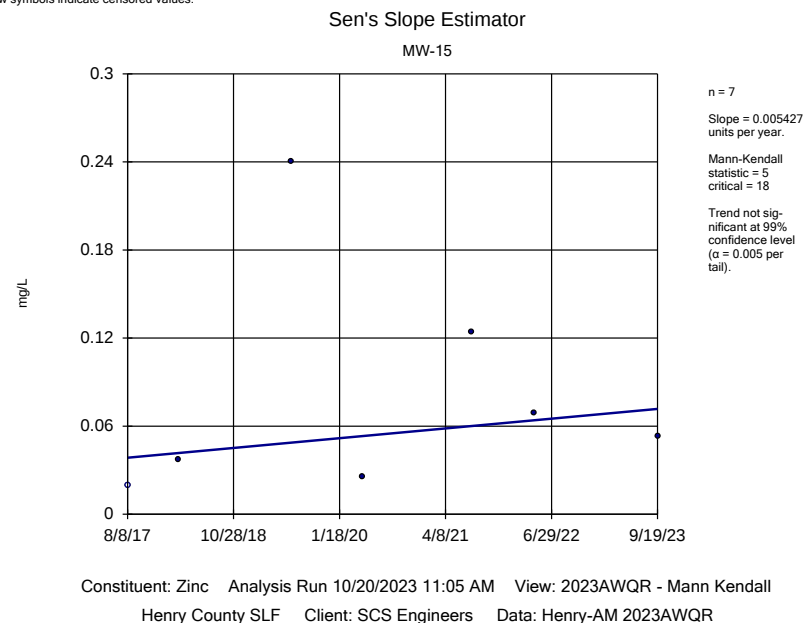
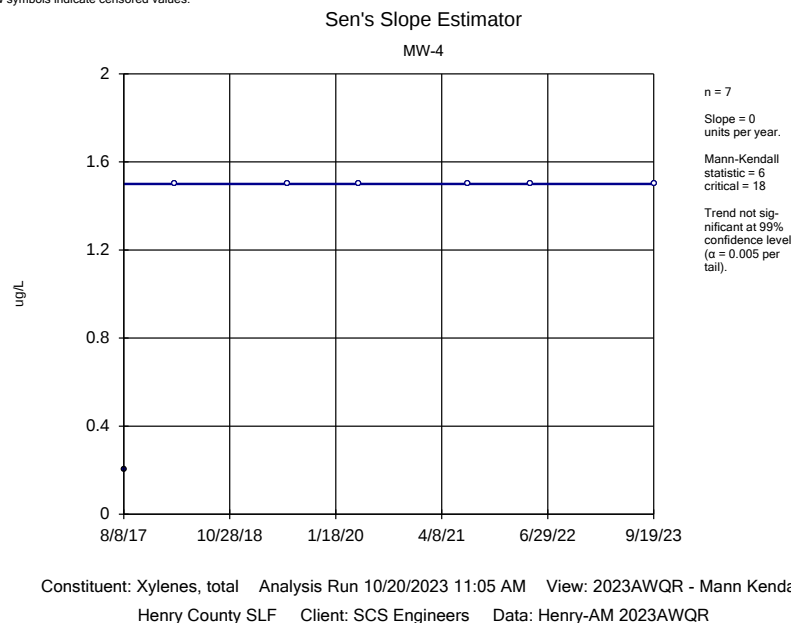


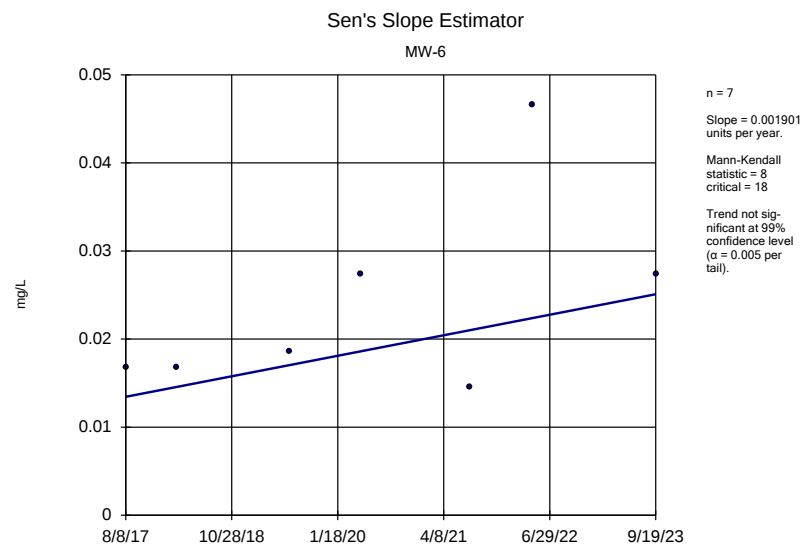
Constituent: Vinyl Chloride Analysis Run 10/20/2023 11:05 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR



Constituent: Vinyl Chloride Analysis Run 10/20/2023 11:05 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR







Constituent: Zinc Analysis Run 10/20/2023 11:05 AM View: 2023AWQR - Mann Kendall
Henry County SLF Client: SCS Engineers Data: Henry-AM 2023AWQR