



2025 Annual Groundwater Monitoring Report

Range Road Coal Combustion
Residual Landfill
3600 Range Road
China Township, Michigan

January 2026

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Executive Summary

On April 17, 2015, the United States Environmental Protection Agency (USEPA) published the final rule for the regulation and management of Coal Combustion Residuals (CCR) under the Resource Conservation and Recovery Act (RCRA) (the CCR Rule), as amended, which applies to the DTE Electric Company (DTE Electric) Range Road Coal Combustion Residual Landfill (RRLF) CCR unit. Pursuant to the CCR Rule, no later than January 31, 2018, and annually thereafter, the owner or operator of a CCR unit must prepare an annual groundwater monitoring and corrective action report for the CCR unit documenting the status of groundwater monitoring and corrective action for the preceding year in accordance with §257.90(e). On behalf of DTE Electric, TRC Engineers Michigan, Inc., the engineering entity of TRC, has prepared this 2025 Annual Groundwater Monitoring Report for calendar year 2025 activities at the RRLF CCR unit.

The RRLF was operating under the detection monitoring program at the start of the 2025 annual reporting period and remained in the detection monitoring program through the end of the 2025 annual reporting period. The semiannual detection monitoring events for 2025 were completed in April and October 2025 and included sampling and analyzing groundwater within the groundwater monitoring system for the indicator parameters listed in Appendix III to the CCR Rule. As part of the statistical evaluation, the data collected during detection monitoring events are evaluated to identify statistically significant increases (SSIs) in Appendix III parameters to determine if concentrations in groundwater exceed background levels. All the monitoring data that have been collected and evaluated under §257.90 through §257.98 in 2025 are presented in this report.

From August 2024 to January 2025 DTE Electric performed an additional uppermost aquifer characterization as detailed in the January 2025 *Additional Uppermost Aquifer Characterization Study, Range Road Landfill CCR Unit, 3600 Range Road, China Township, Michigan* (ACS) and in the July 30, 2025 *Radiocarbon Dating Addendum to the ACS* (ACS Addendum) prepared by TRC. The ACS and the ACS Addendum present an analysis of geochemical, stable isotopic, tritium and carbon-14 data collected in August 2024 along with pre-existing data from the RRLF CCR unit that further demonstrates that the uppermost aquifer groundwater is unaffected by the CCR unit water.

Potential SSIs over background limits were noted for several Appendix III constituents in one or more monitoring wells during the April and October 2025 monitoring events. These potential SSIs were determined to be a result of natural variability as documented in previous, still applicable alternative source demonstrations (ASDs) and/or they were not statistically significant (i.e. verification resampling did not confirm the exceedance). No initial SSIs over background limits related to the RRLF CCR unit were recorded for Appendix III constituents during the April and October 2025 monitoring events. Therefore, detection monitoring will be continued at the RRLF CCR unit in accordance with §257.94 of the CCR Rule.

1.0 Introduction

1.1 Program Summary

On April 17, 2015, the United States Environmental Protection Agency (USEPA) published the final rule for the regulation and management of Coal Combustion Residuals (CCR) under the Resource Conservation and Recovery Act (RCRA) (the CCR Rule), as amended, which applies to the DTE Electric Company (DTE Electric) Range Road Coal Combustion Residual Landfill (RRLF) CCR unit. Pursuant to the CCR Rule, no later than January 31, 2018, and annually thereafter, the owner or operator of a CCR unit must prepare an annual groundwater monitoring and corrective action report for the CCR unit documenting the status of groundwater monitoring and corrective action for the preceding year in accordance with §257.90(e). On behalf of DTE Electric, TRC Engineers Michigan, Inc., the engineering entity of TRC, has prepared this Annual Groundwater Monitoring Report for calendar year 2025 activities at the RRLF CCR unit (2025 Annual Report).

This 2025 Annual Report presents the monitoring results and the statistical evaluation of the detection monitoring parameters (Appendix III to Part 257 of the CCR Rule) for the April and October 2025 semiannual groundwater monitoring events for the RRLF CCR unit. Detection monitoring for these events was continued and performed in accordance with the *CCR Groundwater Monitoring and Quality Assurance Project Plan – DTE Electric Company Range Road Landfill* (QAPP) (TRC, July 2016; revised August 2017) and statistically evaluated per the *Groundwater Statistical Evaluation Plan – DTE Electric Company Range Road Coal Combustion Residual Landfill* (Stats Plan) (TRC, October 2017). As part of the statistical evaluation, the data collected during detection monitoring events are evaluated to identify SSIs of detection monitoring parameters compared to background levels.

From August 2024 to January 2025 DTE Electric performed an additional uppermost aquifer characterization as detailed in the *Additional Uppermost Aquifer Characterization Study, Range Road Landfill CCR Unit, 3600 Range Road, China Township, Michigan* (ACS) (TRC, January 2025a) and in a *Radiocarbon Dating Addendum to the ACS* (ACS Addendum) (TRC, July 2025). A copy of the ACS was provided in the 2024 Annual Report (TRC, January 2025b) and a copy of the ACS Addendum is included in Appendix A. The ACS and the ACS Addendum present an analysis of geochemical, stable isotopic, tritium and carbon-14 data collected in August 2024 along with pre-existing data from the RRLF CCR unit that further demonstrate that the uppermost aquifer groundwater is unaffected by the CCR unit water as discussed more in Section 4.0 of this report.

1.2 Site Overview

The RRLF is located in Section 12, Township 4 North, Range 16 East, 3600 Range Road, China Township in St. Clair County, Michigan (Figure 1). The site occupies approximately 514 acres and is one-half mile west of the St. Clair River and one mile north of the Belle River Power Plant. Prior to Detroit Edison's operations commencing in the 1950s, the RRLF property was used as farmland. The property has been used continuously as a coal ash landfill since Detroit Edison Company (now DTE Electric) began coal ash landfilling operations at the RRLF in the

1950s and is constructed over a natural confining, low permeability clay-rich soil base that serves as an underlying soil barrier. The RRLF property consists of approximately 514 acres of which approximately 441 acres are designated for landfill development. CCR materials currently occupy approximately 200 acres of the RRLF.

The RRLF is a licensed Coal Ash Landfill in accordance with Michigan's regulations and is owned and operated by DTE Electric. The disposal facility currently accepts coal ash from DTE Electric's Belle River power plant and has historically accepted coal ash from the former DTE Electric St. Clair, Marysville, and Harbor Beach power plants. The RRLF is operated under the current operating license number 9781 in accordance with Michigan Part 115 of the Natural Resources and Environmental Protection Act (NREPA), PA 451 of 1994, as amended.

1.3 Geology/Hydrogeology

The RRLF CCR unit is located approximately one-half mile west of the St. Clair River. In general, the RRLF is underlain by 86 feet to as much as 188 feet of laterally extensive low hydraulic conductivity silty clay-rich deposits. On the eastern portion and northwest corner of RRLF some thin partially saturated silty sand near-surface deposits are present. These deposits are not laterally contiguous, are not in communication with the deeper uppermost aquifer, do not yield a usable quantity of groundwater, and thus are not considered an aquifer per the CCR Rule. On a significant portion of the RRLF, there is a bedrock valley that trends from the northeast corner to the south-central area of the site. The valley is incised in the Bedford and/or Antrim Shale bedrock and filled with unconsolidated glacial deposits consisting of clay, silt, sand and/or gravel. Based on historical oil well logs from the RRLF area, the bedrock valley extends to depths of up to 303 feet below ground surface (ft bgs). Along the western portion of the RRLF, clay-rich till is present continuously to the top of the underlying Bedford or Antrim Shale bedrock in the area of SB-16-01 and SB-16-02 (Figure 2), creating a no flow boundary.

Groundwater within the uppermost aquifer sand/gravel is confined and protected from the CCR unit by the overlying clay-rich aquitard. The top of the sand/gravel uppermost aquifer encountered at each of the CCR monitoring wells and soil borings is at significantly different elevations across the RRLF that, where present, is first encountered at depths ranging from 86 to 196 ft bgs, immediately beneath the overlying clay-rich aquitard. The variability in boring/well depths is a consequence of the heterogeneity of the glacial deposits and is driven by the limited continuity of the coarse-grained sand and gravel outwash within the overlying/encapsulating fine-grained, silty clay till that confines the uppermost aquifer. In addition, there is an apparent lack of interconnection and/or significant vertical variation between the various uppermost aquifer sand and/or gravel units encountered across the RRLF CCR unit.

Given the horizontally expansive clay with substantial vertical thickness, the heterogeneity of the glacial deposits (with the top of the uppermost aquifer elevation across the RRLF CCR unit varying up to 100 feet vertically), the no-flow boundary to the west, and the lack of hydraulic interconnectedness of the uppermost aquifers encountered at the site in some areas, it is not appropriate to infer horizontal flow direction or gradients across the site. With the presence of the vertically and horizontally extensive clay-rich confining till beneath the RRLF CCR unit, there

is no reasonable probability for the uppermost aquifer to have been affected by CCR from operations that began in the 1950s. This is further supported by the ACS and ACS Addendum that demonstrate that groundwater is not in hydraulic communication with the CCR unit and further demonstrate that the uppermost aquifer groundwater is unaffected by the CCR unit water. A copy of the ACS was provided in the 2024 Annual Report, and a copy of the ACS Addendum is included in Appendix A.

2.0 Groundwater Monitoring

2.1 Monitoring Well Network

A groundwater monitoring system has been established for the RRLF CCR unit as detailed in the *Groundwater Monitoring System Summary Report – DTE Electric Company Range Road Coal Combustion Residual Landfill* (GWMS Report) (TRC, October 2017). The detection monitoring well network for the RRLF CCR unit currently consists of seven monitoring wells that are screened in the uppermost aquifer. Monitoring wells MW-16-01 through MW-16-07 are located around the north, east, and south perimeter of the RRLF and provide data on both background and downgradient groundwater quality that has not been affected by the CCR unit (total of seven background/downgradient monitoring wells). The monitoring well locations are shown on Figure 2.

2.2 Semiannual Groundwater Monitoring

The semiannual monitoring parameters for the detection monitoring program were selected per the CCR Rule's Appendix III to Part 257 – Constituents for Detection Monitoring. The Appendix III indicator parameters consist of boron, calcium, chloride, fluoride, pH (field reading), sulfate, and total dissolved solids (TDS) and were analyzed in accordance with the sampling and analysis plan included within the QAPP. In addition to pH, the collected field parameters included dissolved oxygen, oxidation reduction potential, specific conductivity, temperature, and turbidity.

2.2.1 Data Summary

The first semiannual detection monitoring event for 2025 was performed April 7 and 8, 2025 by TRC personnel and samples were analyzed by Eurofins Environment Testing America (Eurofins) in accordance with the QAPP. Static water elevation data were collected at all seven monitoring well locations. Groundwater samples were collected from the seven detection monitoring wells for the Appendix III indicator parameters and field parameters. A summary of the groundwater data collected during the April 2025 event is provided on Table 1 (static groundwater elevation data), Table 2 (field data), and Table 3 (analytical results).

The second semiannual groundwater detection monitoring event for 2025 was performed from October 27 to 29, 2025 by TRC personnel and samples were analyzed by Eurofins in accordance with the QAPP. Static water elevation data were collected at all seven monitoring well locations. Groundwater samples were collected from the seven detection monitoring wells for the Appendix III indicator parameters and field parameters. A summary of the groundwater data collected during the October 2025 event is provided on Table 1 (static groundwater elevation data), Table 2 (field data), and Table 4 (analytical results).

The laboratory analytical reports and field data for each detection monitoring event are included in Appendices B and C, respectively.

2.2.2 Data Quality Review

Data from each round were evaluated for completeness, overall quality and usability, method-specified sample holding times, precision and accuracy, and potential sample contamination.

The data were found to be complete and usable for the purposes of the CCR monitoring program, with the following exception:

- A non-conformance was identified for the MW-16-01 sulfate result due to variability between the primary sample and the duplicate. The result is potentially biased low compared to historical results and has been flagged as an estimate.

Data quality reviews are summarized in Appendix D.

2.2.3 Groundwater Flow Rate and Direction

As presented in the GWMS Report, and mentioned above, given the horizontally expansive clay with substantial vertical thickness, the heterogeneity of the glacial deposits (with the top of the uppermost aquifer elevation across the RRLF CCR unit varying up to 100 feet vertically), the no-flow boundary to the west, and the lack of hydraulic interconnectedness of the uppermost aquifers encountered at the site in some areas, it is not appropriate to infer horizontal flow direction or gradients across the site. Groundwater elevations measured during the April 2025 sampling event are provided on Table 1 and are summarized in plan view on Figure 3.

Groundwater elevations measured during the October 2025 sampling event are provided on Table 1 and are summarized in plan view on Figure 4.

Groundwater elevation data collected during the most recent sampling event show that groundwater conditions within the uppermost aquifer are consistent with previous monitoring events and continue to demonstrate that the groundwater monitoring wells are appropriately positioned to detect the presence of Appendix III parameters that could potentially migrate from the RRLF CCR unit.

3.0 Statistical Evaluation

3.1 Establishing Background Limits

As discussed in the Stats Plan, intrawell statistical methods for RRLF were selected based on the geology and hydrogeology at the Site (primarily the presence of clay/hydraulic barrier, the variability in the presence of the uppermost aquifer across the site, and the presence of a no flow boundary on the west side of the aquifer), in addition to other supporting lines of evidence that the aquifer is unaffected by the CCR unit (such as the consistency in concentrations of water quality data). An intrawell statistical approach requires that each downgradient well doubles as a background and compliance well, where data from each individual well during a detection monitoring event is compared to a statistical limit developed using the background dataset from that same well.

Per the Stats Plan, background limits were established for the Appendix III indicator parameters following the collection of at least eight background monitoring events using data collected from each of the seven established detection monitoring wells (MW-16-01 through MW-16-07). The initial statistical evaluation of the background data is presented in the 2017 Annual Report. The Appendix III background limits for each monitoring well will be used throughout the detection monitoring period to determine whether groundwater has been impacted from the RRLF CCR unit by comparing concentrations in the detection monitoring wells to their respective background limits for each Appendix III indicator parameter.

Consistent with the Stats Plan and the *USEPA's Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (Unified Guidance, USEPA, 2009), prediction limits are periodically updated to reflect the additional data and additional temporal variability observed subsequent to the initial statistical limit calculation in 2018. The Appendix III prediction limits at the RRLF were updated per the Stats Plan and Unified Guidance in December 2021 to incorporate additional data collected since 2017 as presented in the December 15, 2021 Technical Memorandum, *Uppermost Useable Aquifer Prediction Limit Update – DTE Electric Company, Range Road Coal Combustion Residual Landfill* (included as Appendix D in the *2021 Annual Groundwater Monitoring Report – DTE Electric Company, Range Road Coal Combustion Residual Landfill*, TRC, January 2022).

3.2 Data Comparison to Background Limits – First 2025 Semiannual Event (April 2025)

For each semiannual monitoring event, the concentrations of the indicator parameters in each of the detection monitoring wells (MW-16-01 through MW-16-07) were compared to their respective statistical background limits.

The comparisons of the April 2025 monitoring event data to background limits are presented on Table 3. The statistical evaluation of the April 2025 Appendix III indicator parameters showed no potential initial SSIs compared to background for any of the constituents. The boron, calcium, and TDS concentrations at MW-16-01, the calcium and sulfate concentrations at MW-16-05, and the calcium, sulfate, and TDS concentrations at MW-16-06 have been previously

demonstrated to be from natural variability and are not from a release at the RRLF as presented in the still applicable ASDs listed in Table 3. The conclusions of these ASDs are further supported by the ACS (included in the 2024 Annual Report) and the ACS Addendum (Appendix A) summarized in more detail in Section 4.0. The ACS and ACS Addendum demonstrate that groundwater is not in hydraulic communication with the CCR unit and further demonstrate that the uppermost aquifer groundwater is unaffected by the CCR unit water. Thus, CCR management activities are not influencing groundwater concentrations observed in the RRLF uppermost aquifer monitoring wells.

3.3 Data Comparison to Background Limits – Second 2025 Semiannual Event (October 2025)

The data comparisons for the October 2025 groundwater monitoring event are presented in Table 4. The statistical evaluation of the October 2025 Appendix III indicator parameters showed no potential initial SSIs compared to background for any of the constituents.

The boron, calcium, sulfate, and TDS concentrations at MW-16-01, the calcium concentration at MW-16-05 and the calcium, sulfate, and TDS concentrations at MW-16-06 have been previously demonstrated to be from natural variability and are not from the CCR unit as presented in the still applicable ASDs listed in Table 4. The conclusions of these ASDs are further supported by the ACS and ACS Addendum discussed in Section 4.0. The ACS and ACS Addendum demonstrate that groundwater is not in hydraulic communication with the CCR unit and further demonstrate that the uppermost aquifer groundwater is unaffected by the CCR unit water. Thus, CCR management activities are not influencing groundwater concentrations observed in the RRLF uppermost aquifer monitoring wells.

4.0 Additional Aquifer Characterization

An Additional Uppermost Aquifer Characterization Study (ACS) (TRC, January 2025) has been performed by TRC, on behalf of DTE Electric, at the RRLF to further assess lines of evidence to substantiate that groundwater in the uppermost aquifer is unimpacted by CCR unit operations. Due to the long analytical time requirement, the carbon-14 data was not received until February 2025. Therefore, the Radiocarbon Dating Addendum to the Additional Uppermost Aquifer Characterization Study (Addendum) has been prepared to document the carbon-14 data collection and associated analysis and is provided in Appendix D to this report. Using a combination of advanced statistics in addition to analysis of geochemical indicators, stable isotopes, and radiometric isotopes, this characterization study includes analysis of additional groundwater data collected in August 2024 along with supplementary in-depth analyses of existing data to further characterize the uppermost aquifer groundwater encountered at the site and compare it to the properties of water that has been in contact with CCR at the site.

TRC collected groundwater samples from the RRLF CCR unit groundwater monitoring well network (MW-16-01 through MW-16-07), a water sample from the leachate monitoring well (95-W-02) and from the Stormwater Pond that collects water from the RRLF perimeter ditch network from August 27 to 29, 2024.

These samples were analyzed for:

- Geochemical parameters: total organic carbon (TOC), calcium (Ca), magnesium (Mg), sodium (Na), potassium (K), sulfate (SO₄), chloride (Cl), Fluoride (F), alkalinity (bicarbonate [HCO₃], carbonate [CO₃] and total alkalinity), boron (B), lithium (Li) and strontium (Sr);
- Stable isotopes: $\delta^{11}\text{B}$, $\delta^{87}\text{Sr}$ and $\delta^7\text{Li}$, $\delta^2\text{H}$, $\delta^{18}\text{O}$; and
- Radioactive isotopes: Tritium (³H) and carbon-14.

The results of the study provide multiple additive lines of evidence that further validate the conceptual site model (CSM) that has previously been established for the RRLF, which holds that the contiguous glacially compacted natural clay-rich liner system serves as a natural confining hydraulic barrier isolating the underlying uppermost aquifer from the CCR unit and the uppermost aquifer groundwater is unaffected by the CCR unit water.

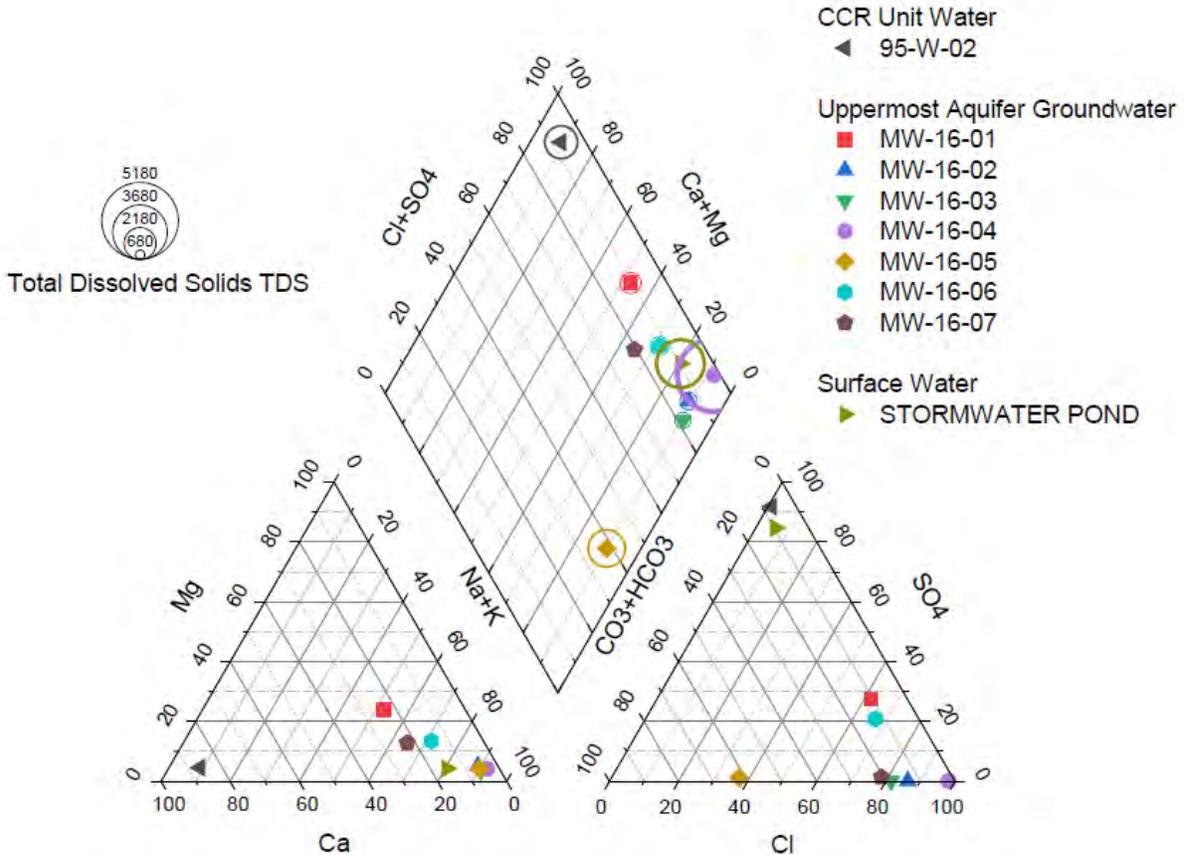
This conclusion is based on the following multiple lines of evidence in this report:

- The geochemical composition of the uppermost aquifer groundwater is independent of and statistically distinct from the CCR unit water;

For example, the cation and anion data demonstrate that each of the water types are different as illustrated in the following piper diagram figure, in addition to other geochemical properties described in more detail within the study report:

Figure 4.1

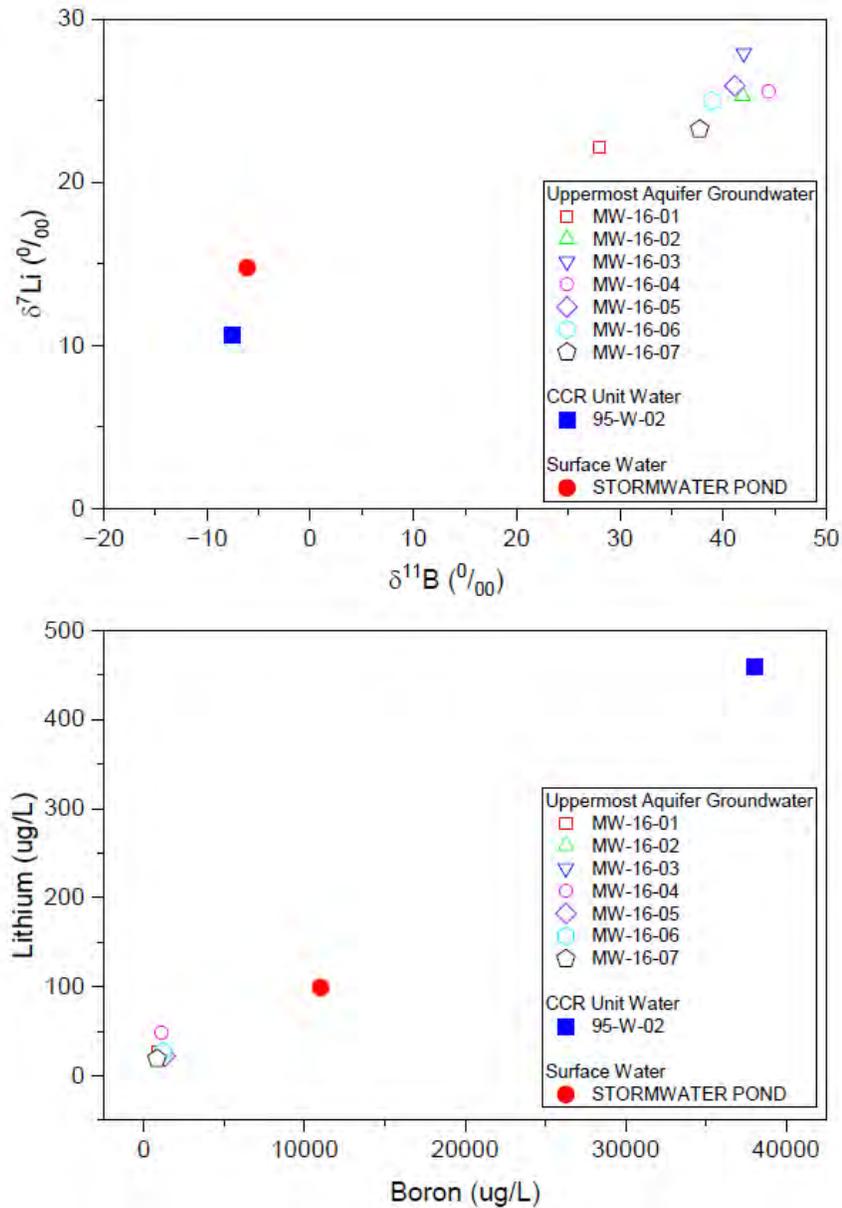
Piper Diagram – August 2024
Range Road Landfill CCR Unit



- The source of lithium, boron, strontium, hydrogen, and oxygen in the uppermost aquifer groundwater is distinct from the CCR unit water, as demonstrated by the stable isotope data that is statistically distinct from the CCR unit water;

Below is an example of how the stable isotope analysis confirms that none of the samples within the uppermost aquifer have been influenced by CCR management activities. The CCR unit water and the uppermost aquifer groundwater plot in two distinct groups that are statistically different. The CCR unit water lithium and boron isotopic compositions fall within ranges commonly observed of fractionated CCR material while the $\delta^{7}\text{Li}$ and $\delta^{11}\text{B}$ values of the uppermost aquifer groundwater samples are compositionally distinct from the CCR values and fall within ranges commonly observed in the natural environment. All of the stable isotope analyses ($\delta^{7}\text{Li}$, $\delta^{11}\text{B}$, $^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{2}\text{H}$, and $\delta^{18}\text{O}$) are presented in the study and unequivocally show that the lithium, boron, strontium, hydrogen, and oxygen in the uppermost aquifer groundwater does not come from nor is it in communication with the CCR unit water.

Figure 4.2
Summary of Lithium and Boron Isotopic Concentration Results
August 2024
Range Road Landfill CCR Unit



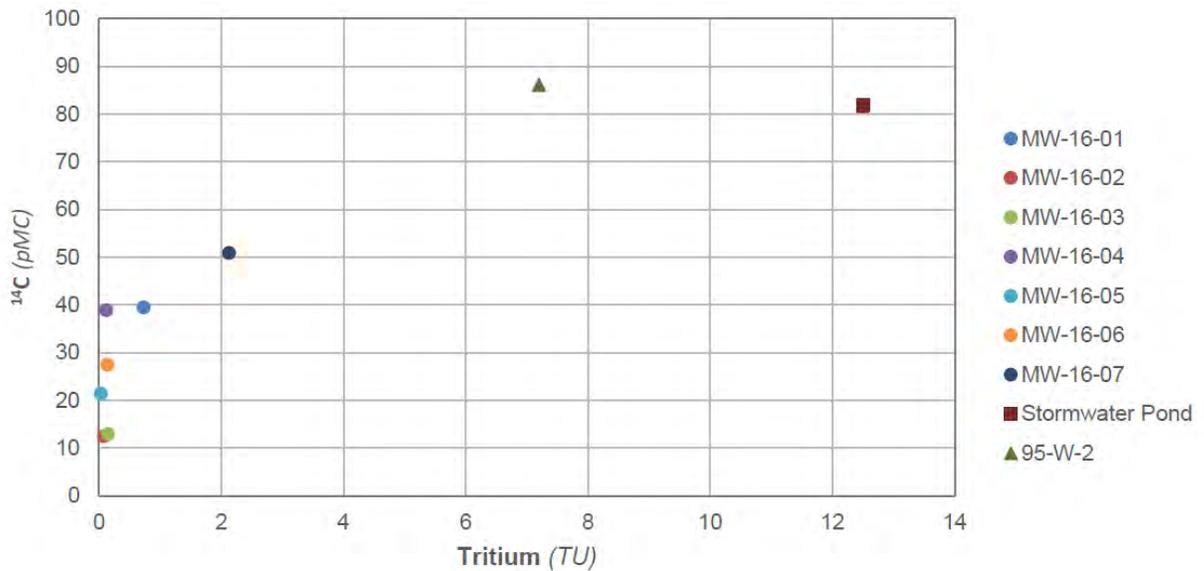
- Age dating with tritium and carbon-14 also validates that the uppermost aquifer groundwater is not hydraulically connected to the CCR unit – with most of the ages exceeding the number of years the landfill has been in operation;

The radiocarbon detections in the monitoring wells ranged from 12.5 to 50.91 percent Modern Carbon (pMC) and were significantly less than the pMC detected in 95-W-2 (86.08

pMC) and in the Stormwater Pond (81.82 pMC), indicating that the groundwater in these wells is significantly older than the water that had recently been in contact with the atmosphere. The apparent radiocarbon age of groundwater was at least 5,423 years, predating the start of RRLF operations in the 1950s. Therefore, groundwater quality in the uppermost aquifer is not influenced by RRLF operations.

As shown below in Figure 4.3, the radiocarbon and tritium results are correspondingly similar, showing higher results for tritium and radiocarbon in stormwater and groundwater in contact with CCR (i.e., younger water) and lower results for groundwater (i.e., older water that predates CCR unit operations). The radiocarbon results are complementary to the corresponding tritium analysis performed on the same set of samples and demonstrate that the groundwater at the RRLF CCR unit was last recharged prior to when the RRLF entered service; and

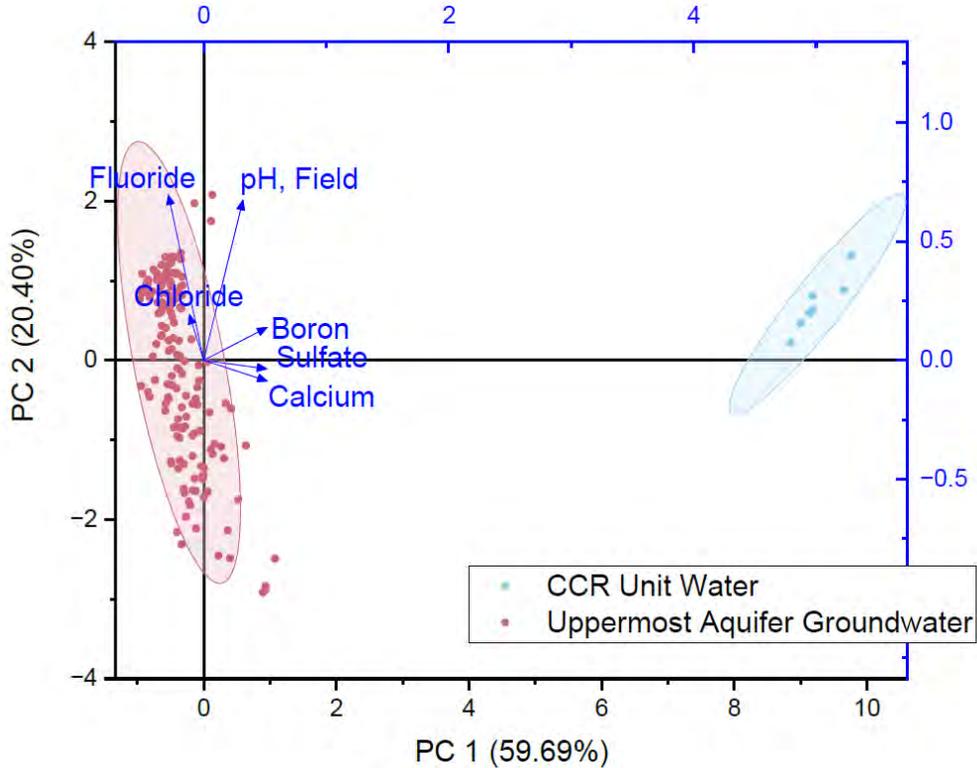
Figure 4.3
Radioactive Isotope Results, Carbon-14 and Tritium
August 2024
Range Road Landfill CCR Unit



- Multivariate statistical analysis, including principal component analysis (PCA), hierarchical clustering, and linear discriminant analysis show the uppermost aquifer groundwater and the CCR unit water have statistically distinct signatures, as demonstrated by using a subset of the geochemical parameters.

This is highlighted with the following result of the PCA analysis shown below that demonstrates the distinct, statistically significant difference between the leachate and the uppermost aquifer groundwater wells, in addition to other statistical methods presented in detail in the study:

Figure 4.4
Biplot and 95% Confidence Area
Range Road Landfill CCR Unit



These multiple lines of evidence come together in an additive fashion to further validate the conceptual site model in previous studies, and further support the results of the ASDs completed to-date, which holds that the contiguous glacially compacted natural clay-rich soil beneath the RRLF serves as a natural confining hydraulic barrier isolating the underlying uppermost aquifer from the CCR unit and maintains that the uppermost aquifer groundwater is unaffected by the CCR unit water.

5.0 Conclusions and Recommendations

No SSIs over background limits related to the RRLF CCR unit were recorded for Appendix III constituents during the 2025 monitoring period. Therefore, detection monitoring will be continued at the RRLF CCR unit in accordance with §257.94. As discussed above, and in the ACS and the ACS Addendum with the presence of the vertically and horizontally extensive clay-rich confining till beneath the RRLF CCR unit, groundwater is not in hydraulic communication with the CCR unit and further demonstrates that the uppermost aquifer groundwater is unaffected by the RRLF CCR management activities.

No corrective actions were performed in 2025. The next semiannual monitoring event at the RRLF CCR unit is scheduled for the second calendar quarter of 2026.

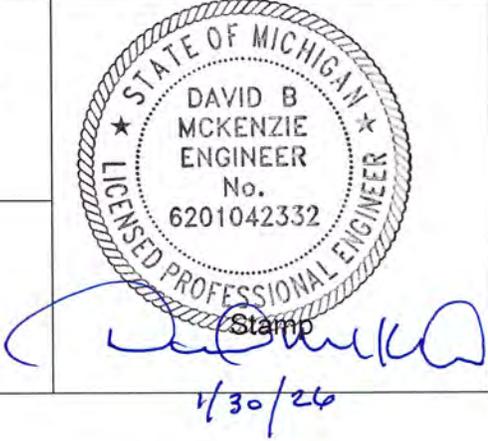
6.0 Groundwater Monitoring Report Certification

The U.S. EPA's Disposal of Coal Combustion Residuals from Electric Utilities Final Rule Title 40 CFR Part 257 §257.90(e) requires that the owner or operator of an existing CCR unit prepare an annual groundwater monitoring and corrective action report.

**Annual Groundwater Monitoring Report Certification
Range Road Landfill
China Township, Michigan**

CERTIFICATION

I hereby certify that the annual groundwater monitoring and corrective action report presented within this document for the RRLF CCR unit and applicable alternative source demonstrations have been prepared to meet the requirements of Title 40 CFR §257.90(e) of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR §257.90(e).

Name: David B. McKenzie, P.E.	Expiration Date: December 17, 2027	
Company: TRC Engineers Michigan, Inc.	Date: January 30, 2026	

7.0 References

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Tables

Table 1
 Summary of Groundwater Elevation Data – 2025
 Range Road Landfill – RCRA CCR Monitoring Program
 China Township, Michigan

Well ID	MW-16-01		MW-16-02		MW-16-03		MW-16-04		MW-16-05		MW-16-06		MW-16-07	
Date Installed	1/13/2016		1/27/2016		2/1/2016		5/24/2016		5/13/2016		5/10/2016		5/13/2016	
TOC Elevation	595.35		598.44		597.69		596.87		601.97		600.68		589.34	
Geologic Unit of Screened interval	Sand with Silt		Silty Sand with Gravel		Silty Gravel with Sand		Silty Sand		Gravel with Sand		Sand		Sand	
Screened Interval Elevation	390.7 to 385.7		393.8 to 388.8		432.1 to 427.1		414.1 to 409.1		476.6 to 471.6		508.0 to 503.0		494.4 to 489.4	
Unit	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft
Measurement Date	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation
04/07/2025	17.52	577.83	20.42	578.02	19.42	578.27	18.90	577.97	27.14	574.83	23.10	577.58	16.92	572.42
10/27/2025	18.37	576.98	20.86	577.58	20.15	577.54	19.43	577.44	27.52	574.45	23.83	576.85	15.95	573.39

Notes:

Elevations are reported in feet relative to the North American Vertical Datum of 1988.
 ft BTOC - feet below top of casing.

Table 2
 Summary of Groundwater Field Parameters – 2025
 Range Road Landfill – RCRA CCR Monitoring Program
 China Township, Michigan

Sample Location	Sample Date	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Specific Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-16-01	4/8/2025	1.50	-100.6	7.4	1,850	9.6	3.24
	10/29/2025	0.53	-70.4	7.4	1,781	10.8	3.68
MW-16-02	4/8/2025	0.10	-225.3	8.3	1,620	8.6	2.42
	10/29/2025	0.44	-139.7	8.1	1,547	10.1	6.08
MW-16-03	4/7/2025	0.20	-168.1	8.0	1,413	9.9	1.92
	10/28/2025	0.48	-169.9	8.1	1,396	11.6	4.96
MW-16-04	4/8/2025	0.14	-196.9	7.9	6,765	9.8	5.66
	10/29/2025	1.01	-112.6	8.1	6,413	11.2	1.74
MW-16-05	4/8/2025	0.67	-127.9	8.0	1,520	10.4	1.46
	10/29/2025	0.37	-137.8	8.0	1,379	11.0	1.38
MW-16-06	4/7/2025	0.13	-113.4	7.6	1,657	10.3	1.50
	10/28/2025	0.47	-73.2	7.6	1,464	11.6	2.24
MW-16-07	4/8/2025	0.10	-115.4	7.5	893	9.7	26.7
	10/29/2025	0.37	-132.5	7.7	887	11.4	55.6

Notes:

mg/L -Milligrams per Liter.

mV - Millivolts.

SU - Standard Units.

umhos/cm - Micromhos per centimeter.

°C - Degrees Celsius.

NTU - Nephelometric Turbidity Unit

Table 3
 Comparison of Detection Monitoring Parameter Results to Background Limits – April 2025
 Range Road Landfill – RCRA CCR Monitoring Program
 China Township, Michigan

Sample Location:		MW-16-01		MW-16-02		MW-16-03		MW-16-04		MW-16-05		MW-16-06		MW-16-07	
Sample Date:		4/8/2025	PL	4/8/2025	PL	4/7/2025	PL	4/8/2025	PL	4/8/2025	PL	4/7/2025	PL	4/8/2025	PL
Constituent	Unit	Data		Data		Data		Data		Data		Data		Data	
Appendix III															
Boron	ug/L	1,100⁽¹⁾	620	1,000	1,200	1,000	1,300	960	1,200	1,200	1,400	1,000	1,200	760	980
Calcium	ug/L	140,000⁽²⁾	87,000	23,000	24,000	21,000	28,000	63,000	68,000	28,000⁽³⁾	19,000	82,000⁽⁴⁾	34,000	50,000	59,000
Chloride	mg/L	440	770	630	720	500	580	3,100	3,600	520	630	420	580	310	380
Fluoride	mg/L	0.72	0.9	1.9	2.1	2.1	2.2	1.6	1.7	1.8	2.0	1.3	1.5	1.2	1.3
pH, Field	su	7.4	7.1 - 8.2	8.3	8.0 - 9.0	8.0	8.0 - 8.8	7.9	7.6 - 8.6	8.0	8.0 - 8.9	7.6	7.6 - 8.3	7.5	7.3 - 8.4
Sulfate	mg/L	< 1 ⁽⁶⁾	45	< 1	10	< 1	10	< 5	50	77⁽³⁾	10	380⁽¹⁾	54	3.2	74
Total Dissolved Solids	mg/L	1,600⁽³⁾	1,300	1,100	1,300	980	1,100	4,800	5,300	1,000	1,200	1,400⁽⁵⁾	1,100	650	760

Notes:

ug/L - micrograms per liter.

mg/L - milligrams per liter.

SU - standard units; pH is a field parameter.

All metals were analyzed as total unless otherwise specified.

Bold font indicates an exceedance of the Prediction Limit (PL).

- (1) - Exceedance was determined to be from an alternate source in the still applicable, First 2018 Semiannual alternative source demonstration dated 8/1/2018.
- (2) - Exceedance was determined to be from an alternate source in the still applicable, Second 2022 Semiannual alternative source demonstration dated 3/1/2023.
- (3) - Exceedance was determined to be from an alternate source in the still applicable, Second 2023 Semiannual alternative source demonstration dated 2/29/2024.
- (4) - Exceedance was determined to be from an alternate source in the still applicable, First 2019 Semiannual alternative source demonstration dated 8/8/2019.
- (5) - Exceedance was determined to be from an alternate source in the still applicable, Second 2021 Semiannual alternative source demonstration dated 2/24/2022.
- (6) - The result is potentially biased low due to a non-conformance identified in the data quality review.

Table 4
 Comparison of Detection Monitoring Parameter Results to Background Limits – October 2025
 Range Road Landfill – RCRA CCR Monitoring Program
 China Township, Michigan

Sample Location:		MW-16-01		MW-16-02		MW-16-03		MW-16-04		MW-16-05		MW-16-06		MW-16-07	
Sample Date:		10/29/2025	PL	10/29/2025	PL	10/28/2025	PL	10/29/2025	PL	10/29/2025	PL	10/28/2025	PL	10/29/2025	PL
Constituent	Unit	Data		Data		Data		Data		Data		Data		Data	
Appendix III															
Boron	ug/L	1,100⁽¹⁾	620	1,000	1,200	1,100	1,300	1,000	1,200	1,200	1,400	1,100	1,200	830	980
Calcium	ug/L	140,000⁽²⁾	87,000	24,000	24,000	21,000	28,000	66,000	68,000	20,000⁽³⁾	19,000	62,000⁽⁴⁾	34,000	49,000	59,000
Chloride	mg/L	440	770	620	720	510	580	3,300	3,600	540	630	480	580	320	380
Fluoride	mg/L	0.69	0.9	1.9	2.1	2.1	2.2	1.6	1.7	1.8	2.0	1.4	1.5	1.2	1.3
pH, Field	su	7.4	7.1 - 8.2	8.1	8.0 - 9.0	8.1	8.0 - 8.8	8.1	7.6 - 8.6	8.0	8.0 - 8.9	7.6	7.6 - 8.3	7.7	7.3 - 8.4
Sulfate	mg/L	530⁽⁵⁾	45	< 1	10	< 1	10	< 5	50	7.8	10	190⁽¹⁾	54	3.0	74
Total Dissolved Solids	mg/L	1,600⁽³⁾	1,300	1,100	1,300	970	1,100	4,900	5,300	1,000	1,200	1,200⁽⁶⁾	1,100	660	760

Notes:

ug/L - micrograms per liter.

mg/L - milligrams per liter.

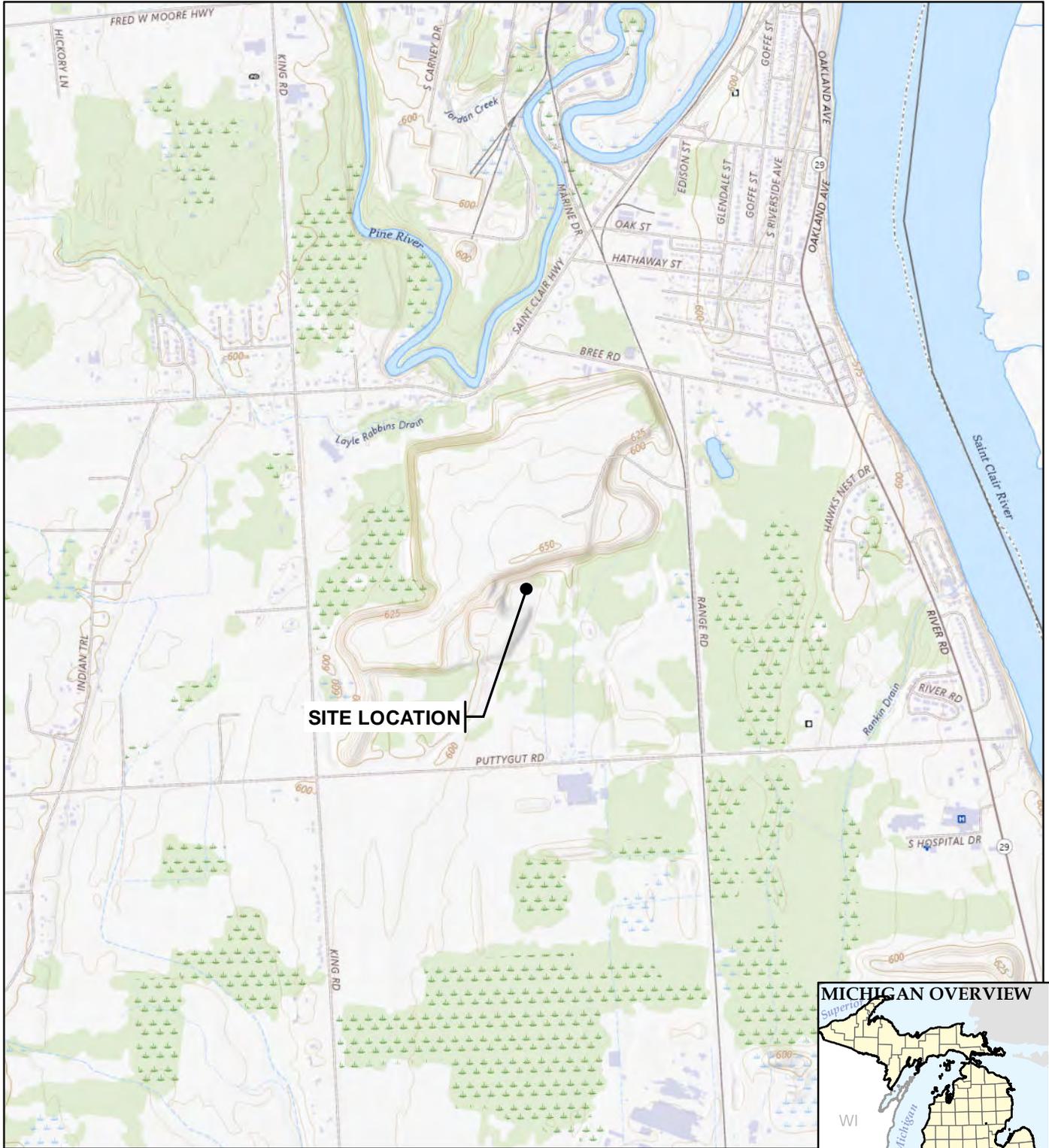
SU - standard units; pH is a field parameter.

All metals were analyzed as total unless otherwise specified.

Bold font indicates an exceedance of the Prediction Limit (PL).

- (1) - Exceedance was determined to be from an alternate source in the still applicable First 2018 Semiannual alternative source demonstration dated 8/1/2018.
- (2) - Exceedance was determined to be from an alternate source in the still applicable Second 2022 Semiannual alternative source demonstration dated 3/1/2023.
- (3) - Exceedance was determined to be from an alternate source in the still applicable Second 2023 Semiannual alternative source demonstration dated 2/29/2024.
- (4) - Exceedance was determined to be from an alternate source in the still applicable First 2019 Semiannual alternative source demonstration dated 8/8/2019.
- (5) - Exceedance was determined to be from an alternate source in the still applicable First 2020 Semiannual alternative source demonstration dated 8/12/2020.
- (6) - Exceedance was determined to be from an alternate source in the still applicable Second 2021 Semiannual alternative source demonstration dated 2/24/2022.

Figures



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

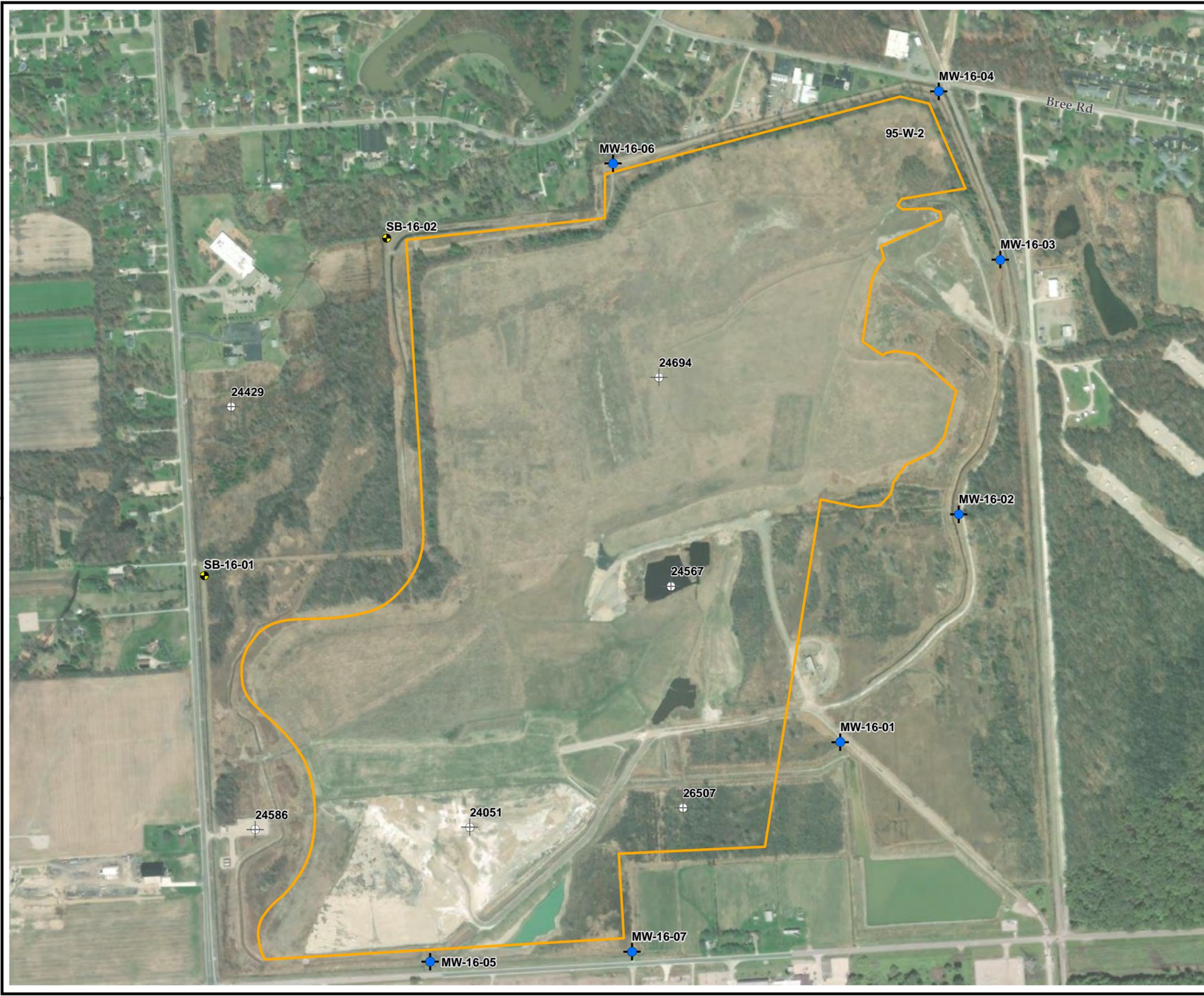


1540 Eisenhower Place
Ann Arbor, MI 48108-3284
Phone: 734.971.7080
www.trccompanies.com

PROJECT:	DTE ELECTRIC COMPANY RANGE ROAD LANDFILL 3600 RANGE ROAD CHINA TOWNSHIP, MICHIGAN
TITLE:	SITE LOCATION MAP

DRAWN BY:	A. FOJTIK
CHECKED BY:	A. WHALEY
APPROVED BY:	V. BUENING
DATE:	JANUARY 2026
PROJ. NO.:	000620061.0000.0000
FILE:	620061-0000-001.mxd

FIGURE 1

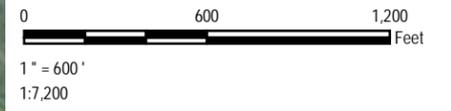


LEGEND

-  MONITORING WELL
-  SOIL BORING
-  APPROXIMATE ANTICIPATED MAXIMUM LIMIT OF ASH FILL
-  OIL/GAS WELL LOCATION

NOTES

1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, 2022.
2. WELL LOCATIONS SURVEYED IN MARCH AND MAY 2016 BY BMJ ENGINEERS & SURVEYORS, INC.
3. OIL AND GAS WELL LOCATIONS FROM MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY, GEOWEBFACE.



PROJECT:		DTE ELECTRIC COMPANY RANGE ROAD LANDFILL 3600 RANGE ROAD CHINA TOWNSHIP, MICHIGAN	
TITLE: MONITORING NETWORK AND SITE PLAN			
DRAWN BY:	A. FOJTIK	PROJ NO.:	620061.0000.0000
CHECKED BY:	J. KRENZ	FIGURE 2	
APPROVED BY:	V. BUENING		
DATE:	JANUARY 2026		
		1540 Eisenhower Place Ann Arbor, MI 48108-3284 Phone: 734.971.7080 www.trccompanies.com	
FILE NO.:		620061-0000-002.mxd	

Monitoring Well Screen Information			
Monitoring Well ID	Screen Interval Lithology	Screen Interval Depth (ft BGS)	Screen Interval Elevation (ft NAVD 88)
MW-16-01	Sand with Silt	202.0 - 207.0	390.7 - 385.7
MW-16-02	Silty Sand with Gravel, and Silty Sand	201.5 - 206.5	393.8 - 388.8
MW-16-03	Silty Gravel with Sand	163.0 - 168.0	432.1 - 427.1
MW-16-04	Silty Sand	180.0 - 185.0	414.1 - 409.1
MW-16-05	Gravel with Sand	123.0 - 128.0	476.6 - 471.6
MW-16-06	Sand	90.0 - 95.0	508.0 - 503.0
MW-16-07	Sand	95.0 - 100.0	494.4 - 489.4



LEGEND

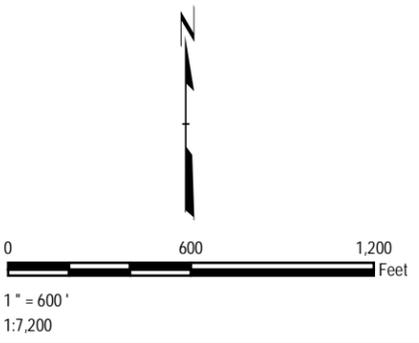
- MONITORING WELL
- SOIL BORING
- APPROXIMATE ANTICIPATED MAXIMUM LIMIT OF ASH FILL
- APPROXIMATE AQUIFER BOUNDARY

MW ID
GROUNDWATER ELEVATION (DATE)

FT BGS
FEET BELOW GROUND SURFACE
FT NAVD 88
FEET RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988

NOTES

1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, 2022.
2. WELL LOCATIONS SURVEYED IN MARCH AND MAY 2016 BY BMJ ENGINEERS & SURVEYORS, INC.



PROJECT:		DTE ELECTRIC COMPANY RANGE ROAD LANDFILL 3600 RANGE ROAD CHINA TOWNSHIP, MICHIGAN	
TITLE:		GROUNDWATER POTENTIOMETRIC ELEVATION SUMMARY APRIL 2025	
DRAWN BY:	A. FOJTIK	PROJ NO.:	620061.0000
CHECKED BY:	J. KRENZ	FIGURE 3	
APPROVED BY:	V. BUENING		
DATE:	MAY 2025		

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Phone: 734.971.7080
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FILE NO: 620061-0000-004.mxd

Monitoring Well Screen Information			
Monitoring Well ID	Screen Interval Lithology	Screen Interval Depth (ft BGS)	Screen Interval Elevation (ft NAVD 88)
MW-16-01	Sand with Silt	202.0 - 207.0	390.7 - 385.7
MW-16-02	Silty Sand with Gravel, and Silty Sand	201.5 - 206.5	393.8 - 388.8
MW-16-03	Silty Gravel with Sand	163.0 - 168.0	432.1 - 427.1
MW-16-04	Silty Sand	180.0 - 185.0	414.1 - 409.1
MW-16-05	Gravel with Sand	123.0 - 128.0	476.6 - 471.6
MW-16-06	Sand	90.0 - 95.0	508.0 - 503.0
MW-16-07	Sand	95.0 - 100.0	494.4 - 489.4



LEGEND

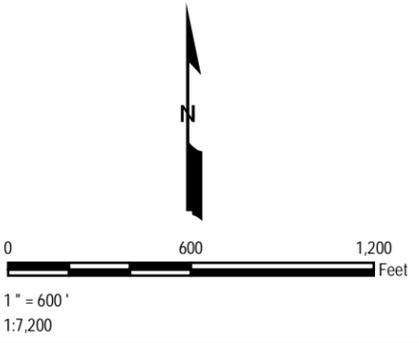
- MONITORING WELL
- SOIL BORING
- APPROXIMATE ANTICIPATED MAXIMUM LIMIT OF ASH FILL
- APPROXIMATE AQUIFER BOUNDARY

MW ID
GROUNDWATER ELEVATION (DATE)

FT BGS
FEET BELOW GROUND SURFACE
FT NAVD 88
FEET RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988

NOTES

1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, 2022.
2. WELL LOCATIONS SURVEYED IN MARCH AND MAY 2016 BY BMJ ENGINEERS & SURVEYORS, INC.



PROJECT:		DTE ELECTRIC COMPANY RANGE ROAD LANDFILL 3600 RANGE ROAD CHINA TOWNSHIP, MICHIGAN	
TITLE:		GROUNDWATER POTENTIOMETRIC ELEVATION SUMMARY OCTOBER 2025	
DRAWN BY:	A. FOJTIK	PROJ NO.:	620061.0000.0000
CHECKED BY:	J. KRENZ	FIGURE 4	
APPROVED BY:	V. BUENING		
DATE:	JANUARY 2026		

1540 Eisenhower Place
Ann Arbor, MI 48108-3284
Phone: 734.971.7080
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FILE NO.: 620061-0000-004.mxd

Appendix A
Radio Carbon Dating Addendum to Additional
Uppermost Aquifer Characterization Study

Technical Memorandum

Date: July 30, 2025

To: DTE Electric Company

From: Kristin Lowery, P.E. TRC
Sarah Holmstrom, L.P.G. TRC

Project No.: 620061.0000.0000, 623789.0000.0000

Subject: Radiocarbon Dating Addendum to Additional Uppermost Aquifer Characterization Study, Range Road Landfill

In January 2025, TRC completed additional characterization of the uppermost aquifer at the Range Road Landfill (RRLF) located in China Township in St Clair County, Michigan, on behalf of DTE Electric Company, to further assess lines of evidence to substantiate that groundwater in the uppermost aquifer is unimpacted by unit operations. This characterization study included analysis of additional groundwater data collected in August 2024 along with supplementary in-depth analyses of existing data using a combination of advanced statistics in addition to analysis of geochemical indicators, stable isotopes, and radiometric isotopes to further characterize the uppermost aquifer groundwater encountered at the site and compare it to the properties of water that has been in contact with coal combustion residuals (CCR) at the site.

The results of the study are documented in the Additional Uppermost Aquifer Characterization Study (TRC, 2025)¹ and provide multiple additive lines of evidence that further validate the conceptual site model (CSM) that has previously been established for the RRLF, which holds that the contiguous glacially compacted natural clay-rich liner system serves as a natural confining hydraulic barrier isolating the underlying uppermost aquifer from the CCR unit and the uppermost aquifer groundwater is unaffected by the CCR unit water.

Among the additional groundwater data collected in August 2024 were samples for analysis of the carbon-14 isotope. Due to the long analytical time requirement, the carbon-14 data was not received until February 2025. Therefore, this Radiocarbon Dating Addendum to the Additional Uppermost Aquifer Characterization Study has been prepared to document the carbon-14 data and associated analysis.

Data Collection

The additional groundwater, CCR unit water, and surface water sample collection activities were performed from August 27 through 29, 2024 to provide data to further characterize the uppermost aquifer at the RRLF. These samples were collected using low-flow methodologies in general

¹ TRC. January 2025. Additional Uppermost Aquifer Characterization Study, Range Road Coal Combustion Residual Landfill, 3600 Range Road, China Township, Michigan. Prepared for DTE Electric Company.

Technical Memorandum

accordance with the procedures outlined in the *CCR Groundwater Monitoring and Quality Assurance Project Plan – DTE Electric Company Range Road Landfill (QAPP)* (TRC, July 2016; revised August 2017).

Groundwater samples were collected from the seven monitoring wells within the CCR unit uppermost aquifer monitoring well network (MW-16-01 through MW-16-07). An aqueous sample from within the CCR unit was collected at monitoring well 95-W-2, which is screened in coal ash material and provides an aqueous sample that is representative of leachate from the landfill. In addition, a surface water sample was collected from the Stormwater Pond.

The samples were submitted to SiREM for analysis of carbon-14, stable isotope $\delta^{13}\text{C}$, and dissolved inorganic carbon. Laboratory data for these samples are provided in Attachment A of this Addendum.

Radiocarbon Dating

Age dating with radiocarbon isotopes has been a widely accepted scientific method since 1949 (Libby et al, 1949)². Carbon has three common isotopes: carbon-12 and carbon-13 are stable, while carbon-14 is a radioactive isotope which decays to nitrogen-14 with a half-life of about 5,730 years. Carbon-14 (radiocarbon) is naturally produced in the atmosphere by interaction of cosmic rays with nitrogen atoms. Radiocarbon enters the water cycle through dissolution or biological uptake of carbon dioxide and is incorporated into groundwater through the infiltration process. Therefore, the quantity of radiocarbon present in groundwater can provide an indication of when water was taken out of contact with the atmosphere such that a lower amount of carbon-14 is indicative of a relatively higher amount of decay due to a longer separation time from the atmosphere and vice versa. However, radiocarbon in groundwater can also originate from contributions from carbonaceous deposits in the aquifer in addition to biological matter and contact with the atmosphere, which can complicate the dating process. Carbonaceous deposits in the subsurface are far older than the other contributors of radiocarbon and the relative contributions can create uncertainties when estimating age of groundwater. As such, the apparent radiocarbon age may be more useful as a semi-quantitative comparison to assess water sources than a direct calculation of age. It is also often combined with other complementary age dating techniques such as tritium, as was done with the Additional Uppermost Aquifer Characterization Study.

The apparent radiocarbon age can be estimated using the quantity of radiocarbon in the water and the known rate of decay. The basic equation for calculating apparent radiocarbon age is³:

$$T_{14\text{C-yr}} = -8033 \ln \frac{pMC}{100}$$

Where: *pMC* is the percent modern carbon in the sample

² Libby, W.F. et al. March 1949. Age Determination by Radiocarbon Content: World-Wide Assay of Natural Radiocarbon.

³ Stenström, K.E. et al. October 2011. A Guide to Radiocarbon Units and Calculations.

Technical Memorandum

The radiocarbon data is summarized below:

Table 1 Radiocarbon Data and Apparent Age		
Sample	¹⁴ C (pMC)	Apparent Age (yr)
MW-16-01	39.49 ± 0.15	7,464
MW-16-02	12.5 ± 0.11	16,704
MW-16-03	12.98 ± 0.11	16,401
MW-16-04	38.92 ± 0.15	7,580
MW-16-05	21.43 ± 0.12	12,374
MW-16-06	27.47 ± 0.13	10,379
MW-16-07	50.91 ± 0.17	5,423
95-W-2	86.08 ± 0.32	1,204
Stormwater Pond	81.82 ± 0.31	1,612

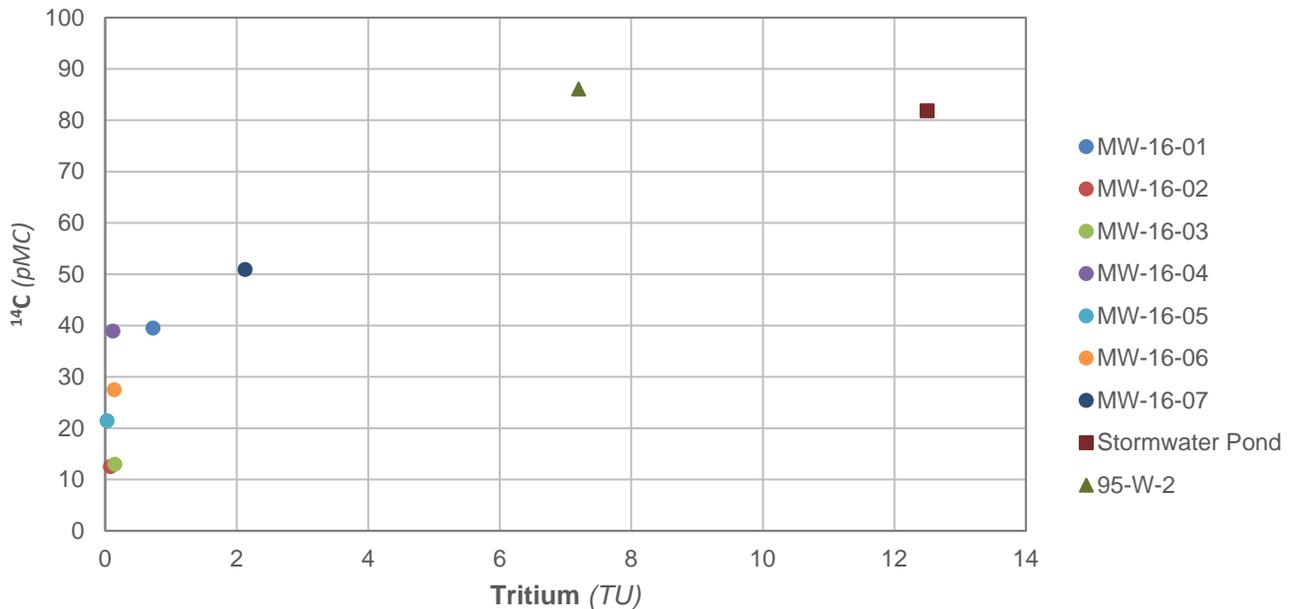
Groundwater in the uppermost aquifer wells indicates an apparent radiocarbon age between 5,423 and 16,704 years compared to a much lower apparent age of 1,204 to 1,612 years for the two samples that have knowingly had recent contact with the atmosphere (i.e. leachate at 95-W-2 and Stormwater Pond). Operation of the RRLF began in the 1950s; the apparent radiocarbon age of the groundwater indicates that the uppermost aquifer groundwater significantly predates the operation of the RRLF. However, as noted above, there are uncertainties when estimating the age of groundwater based on radiocarbon due to potential contributions from alternate sources. Despite this uncertainty, as shown below in Table 2, the radiocarbon data and apparent age demonstrates a significant difference between the radiocarbon results for uppermost aquifer groundwater and water in contact with CCR (95-W-2) and surface water (Stormwater Pond).

Table 2 Statistical Comparison of Uppermost Aquifer Groundwater and Water in Contact with CCR	
Uppermost Aquifer Mean	29.1
Uppermost Aquifer Standard Deviation	14.588585
Uppermost Aquifer Observations	7
Hypothesized Mean (Water in Contact with CCR, 95-W-2)	86.08
Uppermost Aquifer degrees of freedom	6
t Stat	-10.333758
t Critical two-tail	2.4469119
 t-stat > t critical => uppermost aquifer mean ≠ water in contact with CCR	

Technical Memorandum

As discussed in the Additional Uppermost Aquifer Characterization Study, the isotope tritium was also used to age date the uppermost aquifer groundwater relative to known “younger” sources (e.g. leachate at 95-W-2). Using this method, the water in contact with CCR was estimated to be approximately 10 years old. Groundwater in the uppermost aquifer wells ranged from greater than 31 to 107 years old. As shown in Chart 1, the radiocarbon and tritium results are correspondingly similar, showing higher results for tritium and radiocarbon in stormwater and groundwater in contact with CCR (i.e., younger water) and lower results for groundwater (i.e., older water that predates CCR unit operations).

Chart 1 Radioactive Isotope Results, Carbon-14 and Tritium



Conclusions

The radiocarbon results further support the lines of evidence and conclusions presented in the Additional Uppermost Aquifer Characterization Study that the uppermost aquifer groundwater is not in communication with the CCR unit.

Radiocarbon detections in the monitoring wells ranged from 12.5 to 50.91 pMC and were significantly less than the pMC detected in 95-W-2 (86.08 pMC) and in the Stormwater Pond (81.82 pMC), indicating that the groundwater in these wells is significantly older than the water that had recently been in contact with the atmosphere. The apparent radiocarbon age of groundwater was at least 5,423 years, predating the start of RRLF operations in the 1950s. The radiocarbon results are complementary to the corresponding tritium analysis performed on the same set of samples and demonstrate that the groundwater at the RRLF CCR unit was last recharged prior to when the RRLF entered service. Therefore, groundwater quality in the uppermost aquifer is not influenced by RRLF operations.

Attachment 1

Certificate of Analysis
Compound-Specific Isotope Analysis
Carbon-14 in Groundwater Samples

Customer:

TRC Companies, Inc.

Site Reference:

DTE: Range Road Landfill

Sample Reception

S-10664, September 4, 2024

SiREM Reference:

Si-07917

Report Issued:

February 24, 2025

Introduction

This report represents the Compound Specific Isotope Analysis (CSIA) results from samples from the DTE: Range Road Landfill Site. The data from 10 samples were analyzed for ¹⁴C and δ¹³C for dissolved inorganic carbon (DIC).

Sample Summary

Sample ID	Compounds	Isotope Analysis	Matrix Internal ID Unit
MW-16-01	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB
MW-16-02	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB
MW-16-03	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB
MW-16-04	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB
MW-16-05	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB
MW-16-06	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB
MW-16-07	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB
95-W-2	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB
Stormwater Pond	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB
DUP-01	DIC	¹⁴ C, δ ¹³ C	pMC, [‰] VPDB

Analytical Results

SiREM File Reference: S-10664

Client: TRC Companies, Inc.
 Client Project Number: 220784
 Date Samples Received: September 4, 2024
 Date Samples Analyzed: January & February, 2024
 IsoDetect Internal Project No: 24-090-GG

Client Sample ID	SiREM Reference ID	Isodetect Reference ID	Client Sample Date	¹⁴ C	^δ ¹³ C _{VPDB}
				pMC	[‰]
MW-16-01	24-19151	24-90-GG-01	27-Aug-24	39.49 ± 0.15	-11.87 ± 0.25
MW-16-02	24-19152	24-90-GG-02	28-Aug-24	12.5 ± 0.11	-3.95 ± 0.13
MW-16-03	24-19153	24-90-GG-03	28-Aug-24	12.98 ± 0.11	0.68 ± 0.08
MW-16-04	24-19154	24-90-GG-04	28-Aug-24	38.92 ± 0.15	-15.23 ± 0.59
MW-16-05	24-19155	24-90-GG-05	29-Aug-24	21.43 ± 0.12	-10.73 ± 0.15
MW-16-06	24-19156	24-90-GG-06	28-Aug-24	27.47 ± 0.13	-16.58 ± 0.11
MW-16-07	24-19157	24-90-GG-07	28-Aug-24	50.91 ± 0.17	-16.38 ± 0.14
95-W-2	24-19158	24-90-GG-08	29-Aug-24	86.08 ± 0.32	nd
Stormwater Pond	24-19159	24-90-GG-09	29-Aug-24	81.82 ± 0.31	-13.37 ± 0.11
DUP-01	24-19160	24-90-GG-10	28-Aug-24	18.4 ± 0.24	-0.82 ± 0.22

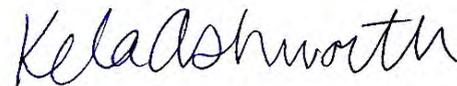
Comments:
 Method: Compound Specific Isotope Analysis (CSIA)
 Concentration data have been submitted by the customer
 nd = not determinable due to low DIC content
 DIC = dissolved inorganic carbon
 pMC = percent modern carbon
 VPDB = Vienna Pee Dee Belemnite

Analyst:



KJ Elipse-Cruz, B.Sc.
Senior Laboratory Technician I

Results approved:



Kela Ashworth, B.Sc.
Scientist

Date:

February 24, 2025



Canadian Shipping Address: 130 Stone Road West
 Guelph, Ontario N1G 3Z2
 PH: 1-519-822-2265
 Toll Free PH: 1-866-251-1747
 www.siremlab.com

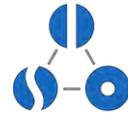
U.S. Shipping Address: 180B Market Place Blvd
 Knoxville, TN 37922
 PH: 1-865-330-0037
 Toll Free PH: 1-866-251-1747

Chain of Custody (COC) Record

Lab #
 S10664

Project Name DTE: Range Road Landfill		Project # (Optional) 220784		Analysis										1 of 1 COCs	
Project Manager Vince Buering		Proposal #												Carbon 14	
Company TRC		Email Address Vbuering@TRCcompanies.com		SIREM Database Info											
Address (Street) 1540 Eisenhower Place		City Ann Arbor				State/Province Michigan		Country USA		Recorded By: KC					
Phone # 734-904-3302		Sampler's Signature 		Sampler's Printed Name Jacob Krenz		Date: 9-4-24									
Client Sample ID		Sampling		Matrix				Number of Containers		Sample Preservative					
		Date		Time											
MW-16-01		8-27-24		1436		water		1		none					
MW-16-02		8-28-24		0833				1							
MW-16-03		8-28-24		1100				1							
MW-16-04		8-28-24		1353				1							
MW-16-05		8-29-24		0937				1							
MW-16-06		8-28-24		1533				1							
MW-16-07		8-28-24		1242				1							
95-W-2		8-29-24		1039				1							
Stormwater Pond		8-29-24		1140				1							
Dup-01		8-28-24						1							
Billing Information (Optional) P.O. #: 220784				Observed Cooler Temperature (°C): 22.9				For Lab Use Only				Cooler Number (if applicable):			
Bill To: TRC Ann Arbor				Corrected Cooler Temperature (°C):				Thermometer ID: KX00238 (no ice)				Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable			
Custody Seal Number (if applicable):															
Relinquished By: Signature 		Received By: Signature TRC Storage		Relinquished By: Signature		Received By: Signature 		Relinquished By: Signature		Received By: Signature					
Printed Name Jacob Krenz		Printed Name TRC		Printed Name		Printed Name Kaitland Cracchiola		Printed Name		Printed Name					
Firm TRC		Firm TRC		Firm		Firm SiREM		Firm		Firm					
Date/Time 8-29-24/1600		Date/Time 8-29-24/1600		Date/Time		Date/Time 9-4-24 0923		Date/Time		Date/Time					

Please note: The SiREM Knoxville location does not have a loading dock. For large volume shipments a truck with a lift gate is required.



20th of February 2025

Analytical report

Compound-specific stable isotope analysis of chlorinated ethenes in groundwater samples

Ordering party: SiREM
130 Stone Rd. West
Guelph, Ontario,
Canada N1G 3Z2

Contact person: Kela Ashworth
Brent Pautler, Ph.D

Contractor: Isodetect GmbH
Deutscher Platz 5b
04103 Leipzig
Germany

Person in charge: Falk Bratfisch
phone: +49 341 35535853
mail: bratfisch@isodetect.de

Kevin Kuntze, Ph.D.
phone: +49 341 35535851
mail: kuntze@isodetect.de

Samples received: 16.09.2024

Field site/Project ID: S-10664 (TRC Range Rd Landfill)

Internal Project No.: 24-090-GG

Scope on analysis: 10 x ¹⁴C analysis (including ¹³C/¹²C) of DIC in water samples


.....
Falk Bratfisch


.....
Dr. Kevin Kuntze

1 Analysis results

Sample ID	Internal ID		$\delta^{13}\text{C}_{\text{VPDB}}$
		pMC	[‰]
MW-16-01	24-90-GG-01	39.49 ± 0.15	-11.87 ± 0.25
MW-16-02	24-90-GG-02	12.5 ± 0.11	-3.95 ± 0.13
MW-16-03	24-90-GG-03	12.98 ± 0.11	0.68 ± 0.08
MW-16-04	24-90-GG-04	38.92 ± 0.15	-15.23 ± 0.59
MW-16-05	24-90-GG-05	21.43 ± 0.12	-10.73 ± 0.15
MW-16-06	24-90-GG-06	27.47 ± 0.13	-16.58 ± 0.11
MW-16-07	24-90-GG-07	50.91 ± 0.17	-16.38 ± 0.14
95-W-2	24-90-GG-08	86.08 ± 0.32	nd
Stormwater Pond	24-90-GG-09	81.82 ± 0.31	-13.37 ± 0.11
DUP-01	24-90-GG-10	18.4 ± 0.24	-0.82 ± 0.22

nd = not determinable due to low DIC content

2 Methodology

Carbon-14 of DIC in water samples was determined after some preparatory steps (precipitation, combustion, purification, graphitisation) by accelerator mass spectrometry (AMS) according to Scharf et al. 2007 Nucl. Instr. Meth. B 259 (1):50-56). In this technique, the graphite targets are loaded in a sputter ion source, which produces a beam of negative carbon ions. Subsequently, low-energy mass analysis is performed with the use of magnets and sometimes also electrostatic analysers. The negative ions of the isotope of interest are accelerated to the terminal of an accelerator at a potential of at least 0.5 up to several million volts (MV). The negative ions are converted there to positive ions by the removal of several electrons during a stripping reaction with a gas (usually Ar) or carbon foils, and accelerated further to ground potential. After subsequent magnetic and electrostatic analysis, the ions are identified in an ion detector. Each batch of samples is accompanied by at least two modern standard (Oxalic Acid) and two background (coal or marble containing no radioactive carbon) samples, prepared in the same way as samples.

The background (graphites produced from marble) was measured to 0.26 pMC.

Carbon-13 ($\delta^{13}\text{C}/^{12}\text{C}$ of DIC) were measured in triplicates after precipitation via Gas chromatography-combustion-isotope ratio mass spectrometry (GC-C-IRMS). Isotope ratios are expressed in the delta notation ($\delta^{13}\text{C}$) in per mil [‰] relative to international standards according to:

$$\delta \text{ [‰]} = \left(\frac{R_{\text{sample}} - R_{\text{standard}}}{R_{\text{standard}}} \right) \quad (\text{eq.1})$$

where R_{sample} and R_{standard} are the $^{13}\text{C}/^{12}\text{C}$ -ratios of the sample and the international standard, respectively. Vienna Pee Dee Belemnite (VPDB) was used as standard for carbon isotope analysis. CO_2 reference gas (-36.07 ‰ V-PDB) was calibrated against international standard materials done by an elemental analyser - isotope ratio mass spectrometer (EA-IRMS) and regularly cross-checked.

Chain of Custody for CSIA of organic pollutants



Contact information				Project information						
Company:	SIREM	Email:	kashworth@siremlab.com	Project ID:	DTE: Range Road Landfill	Field site:				
Contact:	Kela Ashworth	Address:	130 Stone Rd W, Guelph ON N1G 3Z2	Project description:						
Phone:	+1 519-515-0889			Sampled by:	TRC Companies	Company:	TRC Companies			
Client Sample ID/ Sampling point	Sampling		Matrix	Conditions (e.g. Temp., O ₂ , R _H , pH)	Sampling type ¹	Sample volume for CSIA	Fixative ²	CSIA for ³	Isotope ratio ⁴	Other Notes (e.g. troubles, weather)
	Date	Time								
MW-16-01	8/27/24	1438	W		2	1 L	5- none	14C DIC		S-10664
MW-16-02	8/28/24	0833	W		2	1 L	5- none			S-10664
MW-16-03	8/28/24	1100	W		2	1 L	5- none			S-10664
MW-16-04	8/28/24	1353	W		2	1 L	5- none			S-10664
MW-16-05	8/29/24	0937	W		2	1 L	5- none			S-10664
MW-16-06	8/28/24	1533	W		2	1 L	5- none			S-10664
MW-16-07	8/28/24	1242	W		2	1 L	5- none			S-10664
9S-W-2	8/29/24	1039	W		2	1 L	5- none			S-10664
Stormwater Pond	8/29/24	1140	W		2	1 L	5- none			S-10664
DUP-01	8/28/24	-	W		2	1 L	5- none			S-10664

¹ 1 - Submersible pump, 2 - Suction pump, 3 - Bailor, 4 - Tap/outlet, 5 - Trial pit, 6 - Percussion drilling, 7 - Direct push sampling, 8 - Hand excavation, 9 - others (give sampling type)
² 1 - BTEX, 2 - halogenated VOC, 3 - PAH, 4 - Fuel additives (MTBE, ETBE, TAME, TAAI etc.), 5 - Explosives (TNT, RDX, dinitrotoluene, nitrobenzenes etc.),
³ 6 - Petroleum hydrocarbons (e.g. alkylated benzenes, alkanes etc.), 7 - Chlorobenzenes, 8 - Gas hydrocarbons (e.g. methane, ethane, propane, butane, etc.),
⁴ 9 - Pesticides (HCH, DDT, phenoxy acids, atrazine, bromacil, etc.), 10 - others (give target compounds)
⁵ 1 - ¹³C/¹²C, 2 - ³H/¹H, 3 - ¹⁷O/¹⁶O, 4 - ¹⁵N/¹⁴N, 5 - ⁸¹Br/⁷⁹Br, 6 - others (give target isotope ratio)
⁶ 1 - NaOH, 2 - Na₂PO₄·12H₂O, 3 - HCl, 4 - H₂SO₄, 5 - none, 6 - others (give preservative)

Relinquished by		Received by		Relinquished by		Received by	
Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>	Signature:		Signature:	
Name:	Kaitland Cracchiola	Name:	Felth Bratfisch	Name:		Name:	
Company:	SIREM	Company:	Isodetect	Company:		Company:	
Date/Time:	8/13/24 1600	Date/Time:	16.09.24	Date/Time:		Date/Time:	

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17.5 °C

24-09-24



Appendix B

Laboratory Analytical Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Vincent Buening
TRC Environmental Corporation.
1540 Eisenhower Place
Ann Arbor, Michigan 48108-7080

Generated 4/17/2025 12:08:11 AM

JOB DESCRIPTION

CCR DTE RRLF HMP Uppermost Aquifer

JOB NUMBER

240-221991-1

Eurofins Cleveland

Job Notes

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

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

Authorization



Generated
4/17/2025 12:08:11 AM

Authorized for release by
Kris Brooks, Project Manager II
Kris.Brooks@et.eurofinsus.com
(330)966-9790



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Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: TRC Environmental Corporation.
Project: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Job ID: 240-221991-1

Eurofins Cleveland

Job Narrative 240-221991-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 4/10/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.2°C, 1.3°C, 3.2°C, 3.3°C, 3.9°C and 4.3°C.

Metals

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

General Chemistry

Method 9056A_28D: The following sample was diluted due to the nature of the sample matrix: MW-16-04 (240-221991-4). Elevated reporting limits (RLs) are provided.

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

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Method Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
2540 C-2020	Solids, Total Dissolved (TDS)	SM	EET CLE
9056A	Anions, Ion Chromatography	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

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

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

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Sample Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-221991-1	EB-01	Water	04/07/25 15:20	04/10/25 08:00
240-221991-2	MW-16-06	Water	04/07/25 14:08	04/10/25 08:00
240-221991-3	MW-16-03	Water	04/07/25 15:05	04/10/25 08:00
240-221991-4	MW-16-04	Water	04/08/25 08:29	04/10/25 08:00
240-221991-5	MW-16-02	Water	04/08/25 09:30	04/10/25 08:00
240-221991-6	MW-16-01	Water	04/08/25 10:05	04/10/25 08:00
240-221991-7	MW-16-05	Water	04/08/25 13:08	04/10/25 08:00
240-221991-8	MW-16-07	Water	04/08/25 14:20	04/10/25 08:00
240-221991-9	DUP-01	Water	04/08/25 00:00	04/10/25 08:00

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Detection Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: EB-01

Lab Sample ID: 240-221991-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Calcium	47000		1000	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	240		10	mg/L	1		2540 C-2020	Total/NA
Chloride	3.1		1.0	mg/L	1		9056A	Total/NA
Fluoride	0.19		0.050	mg/L	1		9056A	Total/NA
Sulfate	17		1.0	mg/L	1		9056A	Total/NA

Client Sample ID: MW-16-06

Lab Sample ID: 240-221991-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100	ug/L	1		6010D	Total Recoverable
Calcium	82000		1000	ug/L	1		6020B	Total Recoverable
Iron	730		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1400		20	mg/L	1		2540 C-2020	Total/NA
Chloride	420		10	mg/L	10		9056A	Total/NA
Fluoride	1.3		0.050	mg/L	1		9056A	Total/NA
Sulfate	380		10	mg/L	10		9056A	Total/NA

Client Sample ID: MW-16-03

Lab Sample ID: 240-221991-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100	ug/L	1		6010D	Total Recoverable
Calcium	21000		1000	ug/L	1		6020B	Total Recoverable
Iron	420		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	980		20	mg/L	1		2540 C-2020	Total/NA
Chloride	500		5.0	mg/L	5		9056A	Total/NA
Fluoride	2.1		0.050	mg/L	1		9056A	Total/NA

Client Sample ID: MW-16-04

Lab Sample ID: 240-221991-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	960		100	ug/L	1		6010D	Total Recoverable
Calcium	63000		1000	ug/L	1		6020B	Total Recoverable
Iron	660		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	4800		50	mg/L	1		2540 C-2020	Total/NA
Chloride	3100		25	mg/L	25		9056A	Total/NA
Fluoride	1.6		0.25	mg/L	5		9056A	Total/NA

Client Sample ID: MW-16-02

Lab Sample ID: 240-221991-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100	ug/L	1		6010D	Total Recoverable
Calcium	23000		1000	ug/L	1		6020B	Total Recoverable
Iron	620		100	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-02 (Continued)

Lab Sample ID: 240-221991-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1100		20	mg/L	1		2540 C-2020	Total/NA
Chloride	630		10	mg/L	10		9056A	Total/NA
Fluoride	1.9		0.050	mg/L	1		9056A	Total/NA

Client Sample ID: MW-16-01

Lab Sample ID: 240-221991-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	140000		1000	ug/L	1		6020B	Total Recoverable
Iron	1600		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1600		20	mg/L	1		2540 C-2020	Total/NA
Chloride	440		10	mg/L	10		9056A	Total/NA
Fluoride	0.72		0.050	mg/L	1		9056A	Total/NA

Client Sample ID: MW-16-05

Lab Sample ID: 240-221991-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1200		100	ug/L	1		6010D	Total Recoverable
Calcium	28000		1000	ug/L	1		6020B	Total Recoverable
Iron	170		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1000		20	mg/L	1		2540 C-2020	Total/NA
Chloride	520		10	mg/L	10		9056A	Total/NA
Fluoride	1.8		0.050	mg/L	1		9056A	Total/NA
Sulfate	77		1.0	mg/L	1		9056A	Total/NA

Client Sample ID: MW-16-07

Lab Sample ID: 240-221991-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	760		100	ug/L	1		6010D	Total Recoverable
Calcium	50000		1000	ug/L	1		6020B	Total Recoverable
Iron	4100		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	650		10	mg/L	1		2540 C-2020	Total/NA
Chloride	310		5.0	mg/L	5		9056A	Total/NA
Fluoride	1.2		0.050	mg/L	1		9056A	Total/NA
Sulfate	3.2		1.0	mg/L	1		9056A	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 240-221991-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	130000		1000	ug/L	1		6020B	Total Recoverable
Iron	1500		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1600		20	mg/L	1		2540 C-2020	Total/NA
Chloride	460		10	mg/L	10		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: DUP-01 (Continued)

Lab Sample ID: 240-221991-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.72		0.050	mg/L	1		9056A	Total/NA
Sulfate	490		10	mg/L	10		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: EB-01

Lab Sample ID: 240-221991-1

Date Collected: 04/07/25 15:20

Matrix: Water

Date Received: 04/10/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	ug/L		04/11/25 14:00	04/15/25 03:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47000		1000	ug/L		04/11/25 14:00	04/14/25 19:16	1
Iron	100	U	100	ug/L		04/11/25 14:00	04/14/25 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	240		10	mg/L			04/11/25 10:42	1
Chloride (SW846 9056A)	3.1		1.0	mg/L			04/14/25 18:42	1
Fluoride (SW846 9056A)	0.19		0.050	mg/L			04/14/25 18:42	1
Sulfate (SW846 9056A)	17		1.0	mg/L			04/14/25 18:42	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-06

Lab Sample ID: 240-221991-2

Date Collected: 04/07/25 14:08

Matrix: Water

Date Received: 04/10/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100	ug/L		04/11/25 14:00	04/15/25 03:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	82000		1000	ug/L		04/11/25 14:00	04/14/25 19:19	1
Iron	730		100	ug/L		04/11/25 14:00	04/14/25 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1400		20	mg/L			04/11/25 10:42	1
Chloride (SW846 9056A)	420		10	mg/L			04/14/25 19:18	10
Fluoride (SW846 9056A)	1.3		0.050	mg/L			04/14/25 19:09	1
Sulfate (SW846 9056A)	380		10	mg/L			04/14/25 19:18	10

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-03

Lab Sample ID: 240-221991-3

Date Collected: 04/07/25 15:05

Matrix: Water

Date Received: 04/10/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100	ug/L		04/11/25 14:00	04/15/25 03:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	21000		1000	ug/L		04/11/25 14:00	04/14/25 19:21	1
Iron	420		100	ug/L		04/11/25 14:00	04/14/25 19:21	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	980		20	mg/L			04/11/25 10:42	1
Chloride (SW846 9056A)	500		5.0	mg/L			04/14/25 19:37	5
Fluoride (SW846 9056A)	2.1		0.050	mg/L			04/14/25 19:27	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			04/14/25 19:27	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-04

Lab Sample ID: 240-221991-4

Date Collected: 04/08/25 08:29

Matrix: Water

Date Received: 04/10/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	960		100	ug/L		04/11/25 14:00	04/15/25 03:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	63000		1000	ug/L		04/11/25 14:00	04/14/25 19:24	1
Iron	660		100	ug/L		04/11/25 14:00	04/14/25 19:24	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	4800		50	mg/L			04/14/25 11:52	1
Chloride (SW846 9056A)	3100		25	mg/L			04/14/25 20:13	25
Fluoride (SW846 9056A)	1.6		0.25	mg/L			04/14/25 19:46	5
Sulfate (SW846 9056A)	5.0	U	5.0	mg/L			04/14/25 19:46	5



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-02

Lab Sample ID: 240-221991-5

Date Collected: 04/08/25 09:30

Matrix: Water

Date Received: 04/10/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100	ug/L		04/11/25 14:00	04/15/25 03:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	23000		1000	ug/L		04/11/25 14:00	04/14/25 19:32	1
Iron	620		100	ug/L		04/11/25 14:00	04/14/25 19:32	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1100		20	mg/L			04/14/25 11:52	1
Chloride (SW846 9056A)	630		10	mg/L			04/14/25 20:32	10
Fluoride (SW846 9056A)	1.9		0.050	mg/L			04/14/25 20:22	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			04/14/25 20:22	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-01

Lab Sample ID: 240-221991-6

Date Collected: 04/08/25 10:05

Matrix: Water

Date Received: 04/10/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		04/11/25 14:00	04/15/25 04:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140000		1000	ug/L		04/11/25 14:00	04/14/25 19:35	1
Iron	1600		100	ug/L		04/11/25 14:00	04/14/25 19:35	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1600		20	mg/L			04/14/25 11:52	1
Chloride (SW846 9056A)	440		10	mg/L			04/14/25 20:50	10
Fluoride (SW846 9056A)	0.72		0.050	mg/L			04/14/25 20:41	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			04/14/25 20:41	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-05

Lab Sample ID: 240-221991-7

Date Collected: 04/08/25 13:08

Matrix: Water

Date Received: 04/10/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1200		100	ug/L		04/11/25 14:00	04/15/25 04:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	28000		1000	ug/L		04/11/25 14:00	04/14/25 19:37	1
Iron	170		100	ug/L		04/11/25 14:00	04/14/25 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1000		20	mg/L			04/14/25 11:52	1
Chloride (SW846 9056A)	520		10	mg/L			04/14/25 21:08	10
Fluoride (SW846 9056A)	1.8		0.050	mg/L			04/14/25 20:59	1
Sulfate (SW846 9056A)	77		1.0	mg/L			04/14/25 20:59	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-07

Lab Sample ID: 240-221991-8

Date Collected: 04/08/25 14:20

Matrix: Water

Date Received: 04/10/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	760		100	ug/L		04/11/25 14:00	04/15/25 04:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	50000		1000	ug/L		04/11/25 14:00	04/14/25 19:40	1
Iron	4100		100	ug/L		04/11/25 14:00	04/14/25 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	650		10	mg/L			04/14/25 11:52	1
Chloride (SW846 9056A)	310		5.0	mg/L			04/14/25 21:27	5
Fluoride (SW846 9056A)	1.2		0.050	mg/L			04/14/25 21:17	1
Sulfate (SW846 9056A)	3.2		1.0	mg/L			04/14/25 21:17	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: DUP-01

Lab Sample ID: 240-221991-9

Date Collected: 04/08/25 00:00

Matrix: Water

Date Received: 04/10/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		04/11/25 14:00	04/15/25 04:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		1000	ug/L		04/11/25 14:00	04/14/25 19:43	1
Iron	1500		100	ug/L		04/11/25 14:00	04/14/25 19:43	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1600		20	mg/L			04/14/25 11:52	1
Chloride (SW846 9056A)	460		10	mg/L			04/14/25 22:03	10
Fluoride (SW846 9056A)	0.72		0.050	mg/L			04/14/25 21:54	1
Sulfate (SW846 9056A)	490		10	mg/L			04/14/25 22:03	10

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-651806/1-A
 Matrix: Water
 Analysis Batch: 652079

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 651806

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Boron	100	U	100	ug/L		04/11/25 14:00	04/15/25 02:17	1

Lab Sample ID: LCS 240-651806/2-A
 Matrix: Water
 Analysis Batch: 652079

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 651806

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Boron	1000	947		ug/L		95	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-651806/1-A
 Matrix: Water
 Analysis Batch: 652133

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 651806

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	1000	U	1000	ug/L		04/11/25 14:00	04/14/25 18:38	1
Iron	100	U	100	ug/L		04/11/25 14:00	04/14/25 18:38	1

Lab Sample ID: LCS 240-651806/3-A
 Matrix: Water
 Analysis Batch: 652133

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 651806

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Calcium	25000	25800		ug/L		103	80 - 120
Iron	5000	5470		ug/L		109	80 - 120

Method: 2540 C-2020 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-651819/1
 Matrix: Water
 Analysis Batch: 651819

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

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Dissolved Solids	10	U	10	mg/L			04/11/25 10:42	1

Lab Sample ID: LCS 240-651819/2
 Matrix: Water
 Analysis Batch: 651819

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Total Dissolved Solids	176	171		mg/L		97	80 - 120

Lab Sample ID: MB 240-652064/1
 Matrix: Water
 Analysis Batch: 652064

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

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Dissolved Solids	10	U	10	mg/L			04/14/25 11:52	1

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QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Method: 2540 C-2020 - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 240-652064/2
 Matrix: Water
 Analysis Batch: 652064

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	176	159		mg/L		90	80 - 120

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-652056/3
 Matrix: Water
 Analysis Batch: 652056

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	mg/L			04/14/25 18:23	1
Fluoride	0.050	U	0.050	mg/L			04/14/25 18:23	1
Sulfate	1.0	U	1.0	mg/L			04/14/25 18:23	1

Lab Sample ID: LCS 240-652056/4
 Matrix: Water
 Analysis Batch: 652056

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.8		mg/L		100	90 - 110
Fluoride	2.50	2.56		mg/L		102	90 - 110
Sulfate	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: 240-221991-1 MS
 Matrix: Water
 Analysis Batch: 652056

Client Sample ID: EB-01
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.1		25.0	30.2		mg/L		108	80 - 120
Fluoride	0.19		1.25	1.54		mg/L		108	80 - 120
Sulfate	17		25.0	43.1		mg/L		102	80 - 120

Lab Sample ID: 240-221991-1 MSD
 Matrix: Water
 Analysis Batch: 652056

Client Sample ID: EB-01
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.1		25.0	29.7		mg/L		107	80 - 120	1	15
Fluoride	0.19		1.25	1.51		mg/L		106	80 - 120	2	15
Sulfate	17		25.0	42.6		mg/L		101	80 - 120	1	15

QC Association Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Metals

Prep Batch: 651806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-221991-1	EB-01	Total Recoverable	Water	3005A	
240-221991-2	MW-16-06	Total Recoverable	Water	3005A	
240-221991-3	MW-16-03	Total Recoverable	Water	3005A	
240-221991-4	MW-16-04	Total Recoverable	Water	3005A	
240-221991-5	MW-16-02	Total Recoverable	Water	3005A	
240-221991-6	MW-16-01	Total Recoverable	Water	3005A	
240-221991-7	MW-16-05	Total Recoverable	Water	3005A	
240-221991-8	MW-16-07	Total Recoverable	Water	3005A	
240-221991-9	DUP-01	Total Recoverable	Water	3005A	
MB 240-651806/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-651806/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-651806/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 652079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-221991-1	EB-01	Total Recoverable	Water	6010D	651806
240-221991-2	MW-16-06	Total Recoverable	Water	6010D	651806
240-221991-3	MW-16-03	Total Recoverable	Water	6010D	651806
240-221991-4	MW-16-04	Total Recoverable	Water	6010D	651806
240-221991-5	MW-16-02	Total Recoverable	Water	6010D	651806
240-221991-6	MW-16-01	Total Recoverable	Water	6010D	651806
240-221991-7	MW-16-05	Total Recoverable	Water	6010D	651806
240-221991-8	MW-16-07	Total Recoverable	Water	6010D	651806
240-221991-9	DUP-01	Total Recoverable	Water	6010D	651806
MB 240-651806/1-A	Method Blank	Total Recoverable	Water	6010D	651806
LCS 240-651806/2-A	Lab Control Sample	Total Recoverable	Water	6010D	651806

Analysis Batch: 652133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-221991-1	EB-01	Total Recoverable	Water	6020B	651806
240-221991-2	MW-16-06	Total Recoverable	Water	6020B	651806
240-221991-3	MW-16-03	Total Recoverable	Water	6020B	651806
240-221991-4	MW-16-04	Total Recoverable	Water	6020B	651806
240-221991-5	MW-16-02	Total Recoverable	Water	6020B	651806
240-221991-6	MW-16-01	Total Recoverable	Water	6020B	651806
240-221991-7	MW-16-05	Total Recoverable	Water	6020B	651806
240-221991-8	MW-16-07	Total Recoverable	Water	6020B	651806
240-221991-9	DUP-01	Total Recoverable	Water	6020B	651806
MB 240-651806/1-A	Method Blank	Total Recoverable	Water	6020B	651806
LCS 240-651806/3-A	Lab Control Sample	Total Recoverable	Water	6020B	651806

General Chemistry

Analysis Batch: 651819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-221991-1	EB-01	Total/NA	Water	2540 C-2020	
240-221991-2	MW-16-06	Total/NA	Water	2540 C-2020	
240-221991-3	MW-16-03	Total/NA	Water	2540 C-2020	
MB 240-651819/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-651819/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

General Chemistry

Analysis Batch: 652056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-221991-1	EB-01	Total/NA	Water	9056A	
240-221991-2	MW-16-06	Total/NA	Water	9056A	
240-221991-2	MW-16-06	Total/NA	Water	9056A	
240-221991-3	MW-16-03	Total/NA	Water	9056A	
240-221991-3	MW-16-03	Total/NA	Water	9056A	
240-221991-4	MW-16-04	Total/NA	Water	9056A	
240-221991-4	MW-16-04	Total/NA	Water	9056A	
240-221991-5	MW-16-02	Total/NA	Water	9056A	
240-221991-5	MW-16-02	Total/NA	Water	9056A	
240-221991-6	MW-16-01	Total/NA	Water	9056A	
240-221991-6	MW-16-01	Total/NA	Water	9056A	
240-221991-7	MW-16-05	Total/NA	Water	9056A	
240-221991-7	MW-16-05	Total/NA	Water	9056A	
240-221991-8	MW-16-07	Total/NA	Water	9056A	
240-221991-8	MW-16-07	Total/NA	Water	9056A	
240-221991-9	DUP-01	Total/NA	Water	9056A	
240-221991-9	DUP-01	Total/NA	Water	9056A	
MB 240-652056/3	Method Blank	Total/NA	Water	9056A	
LCS 240-652056/4	Lab Control Sample	Total/NA	Water	9056A	
240-221991-1 MS	EB-01	Total/NA	Water	9056A	
240-221991-1 MSD	EB-01	Total/NA	Water	9056A	

Analysis Batch: 652064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-221991-4	MW-16-04	Total/NA	Water	2540 C-2020	
240-221991-5	MW-16-02	Total/NA	Water	2540 C-2020	
240-221991-6	MW-16-01	Total/NA	Water	2540 C-2020	
240-221991-7	MW-16-05	Total/NA	Water	2540 C-2020	
240-221991-8	MW-16-07	Total/NA	Water	2540 C-2020	
240-221991-9	DUP-01	Total/NA	Water	2540 C-2020	
MB 240-652064/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-652064/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: EB-01
 Date Collected: 04/07/25 15:20
 Date Received: 04/10/25 08:00

Lab Sample ID: 240-221991-1
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6010D		1	652079	RKT	EET CLE	04/15/25 03:38
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6020B		1	652133	S4FJ	EET CLE	04/14/25 19:16
Total/NA	Analysis	2540 C-2020		1	651819	TAV2	EET CLE	04/11/25 10:42
Total/NA	Analysis	9056A		1	652056	JWW	EET CLE	04/14/25 18:42

Client Sample ID: MW-16-06
 Date Collected: 04/07/25 14:08
 Date Received: 04/10/25 08:00

Lab Sample ID: 240-221991-2
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6010D		1	652079	RKT	EET CLE	04/15/25 03:43
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6020B		1	652133	S4FJ	EET CLE	04/14/25 19:19
Total/NA	Analysis	2540 C-2020		1	651819	TAV2	EET CLE	04/11/25 10:42
Total/NA	Analysis	9056A		1	652056	JWW	EET CLE	04/14/25 19:09
Total/NA	Analysis	9056A		10	652056	JWW	EET CLE	04/14/25 19:18

Client Sample ID: MW-16-03
 Date Collected: 04/07/25 15:05
 Date Received: 04/10/25 08:00

Lab Sample ID: 240-221991-3
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6010D		1	652079	RKT	EET CLE	04/15/25 03:48
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6020B		1	652133	S4FJ	EET CLE	04/14/25 19:21
Total/NA	Analysis	2540 C-2020		1	651819	TAV2	EET CLE	04/11/25 10:42
Total/NA	Analysis	9056A		1	652056	JWW	EET CLE	04/14/25 19:27
Total/NA	Analysis	9056A		5	652056	JWW	EET CLE	04/14/25 19:37

Client Sample ID: MW-16-04
 Date Collected: 04/08/25 08:29
 Date Received: 04/10/25 08:00

Lab Sample ID: 240-221991-4
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6010D		1	652079	RKT	EET CLE	04/15/25 03:52
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6020B		1	652133	S4FJ	EET CLE	04/14/25 19:24
Total/NA	Analysis	2540 C-2020		1	652064	C5SV	EET CLE	04/14/25 11:52
Total/NA	Analysis	9056A		5	652056	JWW	EET CLE	04/14/25 19:46

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-04

Lab Sample ID: 240-221991-4

Date Collected: 04/08/25 08:29

Matrix: Water

Date Received: 04/10/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		25	652056	JWW	EET CLE	04/14/25 20:13

Client Sample ID: MW-16-02

Lab Sample ID: 240-221991-5

Date Collected: 04/08/25 09:30

Matrix: Water

Date Received: 04/10/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6010D		1	652079	RKT	EET CLE	04/15/25 03:57
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6020B		1	652133	S4FJ	EET CLE	04/14/25 19:32
Total/NA	Analysis	2540 C-2020		1	652064	C5SV	EET CLE	04/14/25 11:52
Total/NA	Analysis	9056A		1	652056	JWW	EET CLE	04/14/25 20:22
Total/NA	Analysis	9056A		10	652056	JWW	EET CLE	04/14/25 20:32

Client Sample ID: MW-16-01

Lab Sample ID: 240-221991-6

Date Collected: 04/08/25 10:05

Matrix: Water

Date Received: 04/10/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6010D		1	652079	RKT	EET CLE	04/15/25 04:02
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6020B		1	652133	S4FJ	EET CLE	04/14/25 19:35
Total/NA	Analysis	2540 C-2020		1	652064	C5SV	EET CLE	04/14/25 11:52
Total/NA	Analysis	9056A		1	652056	JWW	EET CLE	04/14/25 20:41
Total/NA	Analysis	9056A		10	652056	JWW	EET CLE	04/14/25 20:50

Client Sample ID: MW-16-05

Lab Sample ID: 240-221991-7

Date Collected: 04/08/25 13:08

Matrix: Water

Date Received: 04/10/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6010D		1	652079	RKT	EET CLE	04/15/25 04:06
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6020B		1	652133	S4FJ	EET CLE	04/14/25 19:37
Total/NA	Analysis	2540 C-2020		1	652064	C5SV	EET CLE	04/14/25 11:52
Total/NA	Analysis	9056A		1	652056	JWW	EET CLE	04/14/25 20:59
Total/NA	Analysis	9056A		10	652056	JWW	EET CLE	04/14/25 21:08

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Client Sample ID: MW-16-07

Lab Sample ID: 240-221991-8

Date Collected: 04/08/25 14:20

Matrix: Water

Date Received: 04/10/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6010D		1	652079	RKT	EET CLE	04/15/25 04:11
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6020B		1	652133	S4FJ	EET CLE	04/14/25 19:40
Total/NA	Analysis	2540 C-2020		1	652064	C5SV	EET CLE	04/14/25 11:52
Total/NA	Analysis	9056A		1	652056	JWW	EET CLE	04/14/25 21:17
Total/NA	Analysis	9056A		5	652056	JWW	EET CLE	04/14/25 21:27

Client Sample ID: DUP-01

Lab Sample ID: 240-221991-9

Date Collected: 04/08/25 00:00

Matrix: Water

Date Received: 04/10/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6010D		1	652079	RKT	EET CLE	04/15/25 04:16
Total Recoverable	Prep	3005A			651806	MN7X	EET CLE	04/11/25 14:00
Total Recoverable	Analysis	6020B		1	652133	S4FJ	EET CLE	04/14/25 19:43
Total/NA	Analysis	2540 C-2020		1	652064	C5SV	EET CLE	04/14/25 11:52
Total/NA	Analysis	9056A		1	652056	JWW	EET CLE	04/14/25 21:54
Total/NA	Analysis	9056A		10	652056	JWW	EET CLE	04/14/25 22:03

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-221991-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Client Information		Sampler: <u>Andrew Whaley</u>	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-131463-31929.1						
Client Contact: Mr. Vincent Buening		Phone: <u>734-210-9259</u>	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: <u>MI</u>	Page: Page 1 of 1						
Company: TRC Environmental Corporation.		PWSID:	Analysis Requested								
Address: 1540 Eisenhower Place		Due Date Requested: <u>Standard</u>	Preservation Codes: D - HNO3 N - None Other:								
City: Ann Arbor		TAT Requested (days): <u>Standard</u>									
State, Zip: MI, 48108-7080		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: 313-971-7080(Tel) 313-971-9022(Fax)		PO #: 229347									
Email: vbuening@trccompanies.com		WO #: 620061.0000									
Project Name: CCR DTE RRLF HMP Uppermost Aquifer		Project #: 24016807	Total Number of containers								
Site: Michigan		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010 Bo, 6020 Ca, Fe	2540C, Calcd - TDS	9056A, 28D - Chloride, Fluoride and Sulfate	Special Instructions/Note:
				Preservation Code:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>ER-01</u>		<u>4/7/25</u>	<u>15:20</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	 240-221991 COC
<u>MW-16-06</u>		<u>4/7/25</u>	<u>14:08</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-16-03</u>		<u>4/7/25</u>	<u>15:05</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-16-04</u>		<u>4/8/25</u>	<u>08:29</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-16-02</u>		<u>4/8/25</u>	<u>09:30</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-16-01</u>		<u>4/8/25</u>	<u>10:05</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-16-05</u>		<u>4/8/25</u>	<u>13:08</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-16-07</u>		<u>4/8/25</u>	<u>14:20</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>Dup-01</u>		<u>4/8/25</u>	<u>-</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	
					<u>Water</u>						
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify) <u>TRC EDD</u>						Special Instructions/QC Requirements:					
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:				
Relinquished by: <u>[Signature]</u>		Date/Time: <u>06:40 4/19/25</u>		Company: <u>TRC</u>		Received by: <u>TRC Storage</u>		Date/Time: <u>4/19/25 06:40</u>		Company: <u>TRC</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/19/25 8:29</u>		Company: <u>TRC</u>		Received by: <u>[Signature]</u>		Date/Time: <u>4/19/25 09:31</u>		Company: <u>ETA</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/19/25 09:32</u>		Company: <u>ETA</u>		Received by: <u>JAYDEN COLLINS</u>		Date/Time: <u>4/19/25 8:00</u>		Company: <u>ECU</u>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							



Eurofins - Cleveland Sample Receipt Form/Narrative
 Barberion Facility
 Login # _____

Client TRC Environmental Corporation Site Name _____ Cooler unpacked by JE

Cooler Received on 4-10-25 Opened on 4-10-25

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 00 Foam Box Client Cooler Box Other _____

Packing material used Bubble Wrap Foam Plastic Bag None Other _____

1 Cooler temperature upon receipt 13 (F) 0.0 (C) Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C

IR GUN # _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No NA

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA

-Were tamper/custody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA

4 Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12. Are these work share samples and all listed on the COC? Yes No NA

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HQ457151

14. Were VOAs on the COC? Yes No NA

15 Were air bubbles >6 mm in any VOA vials? Larger than this Yes No NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA

17 Was a LL Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19 SAMPLE CONDITION _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION _____ were further preserved in the laboratory

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

Tests that are not checked for pH by Receiving.
 VOAs
 Oil and Grease
 TOC



Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Container Temp</u>	<u>Preservation Added</u>	<u>Preservation Lot Number</u>
EB-01	240-221991-A-1	Plastic 60 mL - unpreserved				
EB-01	240-221991-B-1	Plastic 250ml - with Nitric Acid	<2			
EB-01	240-221991-C-1	Plastic 500ml - unpreserved				
MW-16-06	240-221991-A-2	Plastic 60 mL - unpreserved				
MW-16-06	240-221991-B-2	Plastic 250ml - with Nitric Acid	<2			
MW-16-06	240-221991-C-2	Plastic 500ml - unpreserved				
MW-16-03	240-221991-A-3	Plastic 60 mL - unpreserved				
MW-16-03	240-221991-B-3	Plastic 250ml - with Nitric Acid	<2			
MW-16-03	240-221991-C-3	Plastic 500ml - unpreserved				
MW-16-04	240-221991-A-4	Plastic 60 mL - unpreserved				
MW-16-04	240-221991-B-4	Plastic 250ml - with Nitric Acid	<2			
MW-16-04	240-221991-C-4	Plastic 500ml - unpreserved				
MW-16-02	240-221991-A-5	Plastic 60 mL - unpreserved				
MW-16-02	240-221991-B-5	Plastic 250ml - with Nitric Acid	<2			
MW-16-02	240-221991-C-5	Plastic 500ml - unpreserved				
MW-16-01	240-221991-A-6	Plastic 60 mL - unpreserved				
MW-16-01	240-221991-B-6	Plastic 250ml - with Nitric Acid	<2			
MW-16-01	240-221991-C-6	Plastic 500ml - unpreserved				
MW-16-05	240-221991-A-7	Plastic 60 mL - unpreserved				
MW-16-05	240-221991-B-7	Plastic 250ml - with Nitric Acid	<2			
MW-16-05	240-221991-C-7	Plastic 500ml - unpreserved				
MW-16-07	240-221991-A-8	Plastic 60 mL - unpreserved				
MW-16-07	240-221991-B-8	Plastic 250ml - with Nitric Acid	<2			
MW-16-07	240-221991-C-8	Plastic 500ml - unpreserved				
DUP-01	240-221991-A-9	Plastic 60 mL - unpreserved				
DUP-01	240-221991-B-9	Plastic 250ml - with Nitric Acid	<2			
DUP-01	240-221991-C-9	Plastic 500ml - unpreserved				

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Mr. Vincent Buening
TRC Environmental Corporation.
1540 Eisenhower Place
Ann Arbor, Michigan 48108-7080

Generated 11/6/2025 9:58:09 PM

JOB DESCRIPTION

CCR DTE RRLF HMP Uppermost Aquifer

JOB NUMBER

240-236592-1

Eurofins Cleveland

Job Notes

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

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

Authorization



Generated
11/6/2025 9:58:09 PM

Authorized for release by
Kris Brooks, Manager of Project Management
Kris.Brooks@et.eurofinsus.com
(330)966-9790



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Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: TRC Environmental Corporation.
Project: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

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Eurofins Cleveland

Job Narrative 240-236592-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/31/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.7°C, 2.0°C, 2.1°C, 2.3°C, 2.6°C and 4.6°C.

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.

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Method Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
2540 C-2020	Solids, Total Dissolved (TDS)	SM	EET CLE
9056A	Anions, Ion Chromatography	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

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

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

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Sample Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-236592-1	MW-16-01	Water	10/29/25 10:47	10/31/25 08:00	Michigan
240-236592-2	MW-16-02	Water	10/29/25 09:45	10/31/25 08:00	Michigan
240-236592-3	MW-16-03	Water	10/28/25 14:35	10/31/25 08:00	Michigan
240-236592-4	MW-16-04	Water	10/29/25 10:55	10/31/25 08:00	Michigan
240-236592-5	MW-16-05	Water	10/29/25 14:42	10/31/25 08:00	Michigan
240-236592-6	MW-16-06	Water	10/28/25 13:08	10/31/25 08:00	Michigan
240-236592-7	MW-16-07	Water	10/29/25 16:06	10/31/25 08:00	Michigan
240-236592-8	EB-01	Water	10/28/25 10:56	10/31/25 08:00	Michigan
240-236592-9	DUP-01	Water	10/28/25 00:00	10/31/25 08:00	Michigan

- 1
- 2
- 3
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- 11
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- 13

Detection Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-01

Lab Sample ID: 240-236592-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	140000		1000	ug/L	1		6020B	Total Recoverable
Iron	1400		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1600		20	mg/L	1		2540 C-2020	Total/NA
Chloride	440		10	mg/L	10		9056A	Total/NA
Fluoride	0.69		0.050	mg/L	1		9056A	Total/NA
Sulfate	530		10	mg/L	10		9056A	Total/NA

Client Sample ID: MW-16-02

Lab Sample ID: 240-236592-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100	ug/L	1		6010D	Total Recoverable
Calcium	24000		1000	ug/L	1		6020B	Total Recoverable
Iron	570		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1100		20	mg/L	1		2540 C-2020	Total/NA
Chloride	620		10	mg/L	10		9056A	Total/NA
Fluoride	1.9		0.050	mg/L	1		9056A	Total/NA

Client Sample ID: MW-16-03

Lab Sample ID: 240-236592-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	21000		1000	ug/L	1		6020B	Total Recoverable
Iron	510		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	970		20	mg/L	1		2540 C-2020	Total/NA
Chloride	510		10	mg/L	10		9056A	Total/NA
Fluoride	2.1		0.050	mg/L	1		9056A	Total/NA

Client Sample ID: MW-16-04

Lab Sample ID: 240-236592-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100	ug/L	1		6010D	Total Recoverable
Calcium	66000		1000	ug/L	1		6020B	Total Recoverable
Iron	640		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	4900		50	mg/L	1		2540 C-2020	Total/NA
Chloride	3300		50	mg/L	50		9056A	Total/NA
Fluoride	1.6		0.25	mg/L	5		9056A	Total/NA

Client Sample ID: MW-16-05

Lab Sample ID: 240-236592-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1200		100	ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-05 (Continued)

Lab Sample ID: 240-236592-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Calcium	20000		1000	ug/L	1		6020B	Total Recoverable
Iron	210		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1000		20	mg/L	1		2540 C-2020	Total/NA
Chloride	540		10	mg/L	10		9056A	Total/NA
Fluoride	1.8		0.050	mg/L	1		9056A	Total/NA
Sulfate	7.8		1.0	mg/L	1		9056A	Total/NA

Client Sample ID: MW-16-06

Lab Sample ID: 240-236592-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	62000		1000	ug/L	1		6020B	Total Recoverable
Iron	510		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1200		20	mg/L	1		2540 C-2020	Total/NA
Chloride	480		10	mg/L	10		9056A	Total/NA
Fluoride	1.4		0.050	mg/L	1		9056A	Total/NA
Sulfate	190		1.0	mg/L	1		9056A	Total/NA

Client Sample ID: MW-16-07

Lab Sample ID: 240-236592-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	830		100	ug/L	1		6010D	Total Recoverable
Calcium	49000		1000	ug/L	1		6020B	Total Recoverable
Iron	4100		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	660		10	mg/L	1		2540 C-2020	Total/NA
Chloride	320		5.0	mg/L	5		9056A	Total/NA
Fluoride	1.2		0.050	mg/L	1		9056A	Total/NA
Sulfate	3.0		1.0	mg/L	1		9056A	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 240-236592-8

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 240-236592-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100	ug/L	1		6010D	Total Recoverable
Calcium	20000		1000	ug/L	1		6020B	Total Recoverable
Iron	470		100	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	940		20	mg/L	1		2540 C-2020	Total/NA
Chloride	510		10	mg/L	10		9056A	Total/NA
Fluoride	2.1		0.050	mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-01

Lab Sample ID: 240-236592-1

Date Collected: 10/29/25 10:47

Matrix: Water

Date Received: 10/31/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		11/04/25 14:00	11/05/25 08:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140000		1000	ug/L		11/04/25 14:00	11/05/25 13:59	1
Iron	1400		100	ug/L		11/04/25 14:00	11/05/25 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1600		20	mg/L			11/04/25 10:08	1
Chloride (SW846 9056A)	440		10	mg/L			11/04/25 17:59	10
Fluoride (SW846 9056A)	0.69		0.050	mg/L			11/04/25 17:50	1
Sulfate (SW846 9056A)	530		10	mg/L			11/04/25 17:59	10



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-02

Lab Sample ID: 240-236592-2

Date Collected: 10/29/25 09:45

Matrix: Water

Date Received: 10/31/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100	ug/L		11/04/25 14:00	11/05/25 08:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	24000		1000	ug/L		11/04/25 14:00	11/05/25 14:02	1
Iron	570		100	ug/L		11/04/25 14:00	11/05/25 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1100		20	mg/L			11/04/25 10:08	1
Chloride (SW846 9056A)	620		10	mg/L			11/04/25 18:18	10
Fluoride (SW846 9056A)	1.9		0.050	mg/L			11/04/25 18:09	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			11/04/25 18:09	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-03

Lab Sample ID: 240-236592-3

Date Collected: 10/28/25 14:35

Matrix: Water

Date Received: 10/31/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		11/04/25 14:00	11/05/25 08:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	21000		1000	ug/L		11/04/25 14:00	11/05/25 14:16	1
Iron	510		100	ug/L		11/04/25 14:00	11/05/25 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	970		20	mg/L			11/04/25 10:08	1
Chloride (SW846 9056A)	510		10	mg/L			11/04/25 18:36	10
Fluoride (SW846 9056A)	2.1		0.050	mg/L			11/04/25 18:27	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			11/04/25 18:27	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-04

Lab Sample ID: 240-236592-4

Date Collected: 10/29/25 10:55

Matrix: Water

Date Received: 10/31/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100	ug/L		11/04/25 14:00	11/05/25 08:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	66000		1000	ug/L		11/04/25 14:00	11/05/25 14:24	1
Iron	640		100	ug/L		11/04/25 14:00	11/05/25 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	4900		50	mg/L			11/04/25 10:08	1
Chloride (SW846 9056A)	3300		50	mg/L			11/04/25 18:54	50
Fluoride (SW846 9056A)	1.6		0.25	mg/L			11/04/25 18:45	5
Sulfate (SW846 9056A)	5.0	U	5.0	mg/L			11/04/25 18:45	5

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-05

Lab Sample ID: 240-236592-5

Date Collected: 10/29/25 14:42

Matrix: Water

Date Received: 10/31/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1200		100	ug/L		11/04/25 14:00	11/05/25 09:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	20000		1000	ug/L		11/04/25 14:00	11/05/25 14:27	1
Iron	210		100	ug/L		11/04/25 14:00	11/05/25 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1000		20	mg/L			11/04/25 10:08	1
Chloride (SW846 9056A)	540		10	mg/L			11/04/25 19:50	10
Fluoride (SW846 9056A)	1.8		0.050	mg/L			11/04/25 19:04	1
Sulfate (SW846 9056A)	7.8		1.0	mg/L			11/04/25 19:04	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-06

Lab Sample ID: 240-236592-6

Date Collected: 10/28/25 13:08

Matrix: Water

Date Received: 10/31/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		11/04/25 14:00	11/05/25 09:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	62000		1000	ug/L		11/04/25 14:00	11/05/25 14:30	1
Iron	510		100	ug/L		11/04/25 14:00	11/05/25 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1200		20	mg/L			11/04/25 10:08	1
Chloride (SW846 9056A)	480		10	mg/L			11/04/25 20:26	10
Fluoride (SW846 9056A)	1.4		0.050	mg/L			11/04/25 20:17	1
Sulfate (SW846 9056A)	190		1.0	mg/L			11/04/25 20:17	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-07

Lab Sample ID: 240-236592-7

Date Collected: 10/29/25 16:06

Matrix: Water

Date Received: 10/31/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	830		100	ug/L		11/04/25 14:00	11/05/25 09:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	49000		1000	ug/L		11/04/25 14:00	11/05/25 14:33	1
Iron	4100		100	ug/L		11/04/25 14:00	11/05/25 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	660		10	mg/L			11/04/25 10:08	1
Chloride (SW846 9056A)	320		5.0	mg/L			11/04/25 20:45	5
Fluoride (SW846 9056A)	1.2		0.050	mg/L			11/04/25 20:35	1
Sulfate (SW846 9056A)	3.0		1.0	mg/L			11/04/25 20:35	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: EB-01

Lab Sample ID: 240-236592-8

Date Collected: 10/28/25 10:56

Matrix: Water

Date Received: 10/31/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	ug/L		11/04/25 14:00	11/05/25 09:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	ug/L		11/04/25 14:00	11/05/25 14:35	1
Iron	100	U	100	ug/L		11/04/25 14:00	11/05/25 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	10	U	10	mg/L			11/04/25 10:08	1
Chloride (SW846 9056A)	1.0	U	1.0	mg/L			11/04/25 20:54	1
Fluoride (SW846 9056A)	0.050	U	0.050	mg/L			11/04/25 20:54	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			11/04/25 20:54	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: DUP-01

Lab Sample ID: 240-236592-9

Date Collected: 10/28/25 00:00

Matrix: Water

Date Received: 10/31/25 08:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100	ug/L		11/04/25 14:00	11/05/25 09:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	20000		1000	ug/L		11/04/25 14:00	11/05/25 14:38	1
Iron	470		100	ug/L		11/04/25 14:00	11/05/25 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	940		20	mg/L			11/04/25 10:08	1
Chloride (SW846 9056A)	510		10	mg/L			11/04/25 21:30	10
Fluoride (SW846 9056A)	2.1		0.050	mg/L			11/04/25 21:03	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			11/04/25 21:03	1

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-679122/1-A
Matrix: Water
Analysis Batch: 679321

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 679122

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	ug/L		11/04/25 14:00	11/05/25 08:12	1

Lab Sample ID: LCS 240-679122/2-A
Matrix: Water
Analysis Batch: 679321

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 679122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1050		ug/L		105	80 - 120

Lab Sample ID: 240-236592-1 MS
Matrix: Water
Analysis Batch: 679321

Client Sample ID: MW-16-01
Prep Type: Total Recoverable
Prep Batch: 679122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1100		1000	2150		ug/L		106	75 - 125

Lab Sample ID: 240-236592-1 MSD
Matrix: Water
Analysis Batch: 679321

Client Sample ID: MW-16-01
Prep Type: Total Recoverable
Prep Batch: 679122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1100		1000	1930		ug/L		84	75 - 125	11	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-679122/1-A
Matrix: Water
Analysis Batch: 679341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 679122

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	ug/L		11/04/25 14:00	11/05/25 13:54	1
Iron	100	U	100	ug/L		11/04/25 14:00	11/05/25 13:54	1

Lab Sample ID: LCS 240-679122/3-A
Matrix: Water
Analysis Batch: 679341

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 679122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25000	24900		ug/L		99	80 - 120
Iron	5000	4840		ug/L		97	80 - 120

Lab Sample ID: 240-236592-2 MS
Matrix: Water
Analysis Batch: 679341

Client Sample ID: MW-16-02
Prep Type: Total Recoverable
Prep Batch: 679122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	24000		25000	47300		ug/L		93	80 - 120
Iron	570		5000	5090		ug/L		91	80 - 120

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

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

Lab Sample ID: 240-236592-2 MSD
 Matrix: Water
 Analysis Batch: 679341

Client Sample ID: MW-16-02
 Prep Type: Total Recoverable
 Prep Batch: 679122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	24000		25000	48200		ug/L		96	80 - 120	2	20
Iron	570		5000	5160		ug/L		92	80 - 120	1	20

Method: 2540 C-2020 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-679112/1
 Matrix: Water
 Analysis Batch: 679112

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	mg/L			11/04/25 10:08	1

Lab Sample ID: LCS 240-679112/2
 Matrix: Water
 Analysis Batch: 679112

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	285	260		mg/L		91	80 - 120

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-679179/4
 Matrix: Water
 Analysis Batch: 679179

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	mg/L			11/04/25 16:00	1
Fluoride	0.050	U	0.050	mg/L			11/04/25 16:00	1
Sulfate	1.0	U	1.0	mg/L			11/04/25 16:00	1

Lab Sample ID: LCS 240-679179/5
 Matrix: Water
 Analysis Batch: 679179

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Fluoride	2.50	2.48		mg/L		99	90 - 110
Sulfate	50.0	49.9		mg/L		100	90 - 110

Lab Sample ID: 240-236592-5 MS
 Matrix: Water
 Analysis Batch: 679179

Client Sample ID: MW-16-05
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.8		2.50	4.09		mg/L		91	80 - 120
Sulfate	7.8		50.0	55.2		mg/L		95	80 - 120

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-236592-5 MS

Matrix: Water

Analysis Batch: 679179

Client Sample ID: MW-16-05

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Chloride	540		500	982		mg/L		88	80 - 120	
Fluoride	1.9		25.0	25.8		mg/L		96	80 - 120	
Sulfate	10	U	500	484		mg/L		97	80 - 120	

Lab Sample ID: 240-236592-5 MSD

Matrix: Water

Analysis Batch: 679179

Client Sample ID: MW-16-05

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Fluoride	1.8		2.50	4.08		mg/L		91	80 - 120		0	15
Sulfate	7.8		50.0	54.8		mg/L		94	80 - 120		1	15

Lab Sample ID: 240-236592-5 MSD

Matrix: Water

Analysis Batch: 679179

Client Sample ID: MW-16-05

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Chloride	540		500	993		mg/L		90	80 - 120		1	15
Fluoride	1.9		25.0	26.7		mg/L		99	80 - 120		3	15
Sulfate	10	U	500	501		mg/L		100	80 - 120		4	15

QC Association Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Metals

Prep Batch: 679122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-236592-1	MW-16-01	Total Recoverable	Water	3005A	
240-236592-2	MW-16-02	Total Recoverable	Water	3005A	
240-236592-3	MW-16-03	Total Recoverable	Water	3005A	
240-236592-4	MW-16-04	Total Recoverable	Water	3005A	
240-236592-5	MW-16-05	Total Recoverable	Water	3005A	
240-236592-6	MW-16-06	Total Recoverable	Water	3005A	
240-236592-7	MW-16-07	Total Recoverable	Water	3005A	
240-236592-8	EB-01	Total Recoverable	Water	3005A	
240-236592-9	DUP-01	Total Recoverable	Water	3005A	
MB 240-679122/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-679122/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-679122/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-236592-1 MS	MW-16-01	Total Recoverable	Water	3005A	
240-236592-1 MSD	MW-16-01	Total Recoverable	Water	3005A	
240-236592-2 MS	MW-16-02	Total Recoverable	Water	3005A	
240-236592-2 MSD	MW-16-02	Total Recoverable	Water	3005A	

Analysis Batch: 679321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-236592-1	MW-16-01	Total Recoverable	Water	6010D	679122
240-236592-2	MW-16-02	Total Recoverable	Water	6010D	679122
240-236592-3	MW-16-03	Total Recoverable	Water	6010D	679122
240-236592-4	MW-16-04	Total Recoverable	Water	6010D	679122
240-236592-5	MW-16-05	Total Recoverable	Water	6010D	679122
240-236592-6	MW-16-06	Total Recoverable	Water	6010D	679122
240-236592-7	MW-16-07	Total Recoverable	Water	6010D	679122
240-236592-8	EB-01	Total Recoverable	Water	6010D	679122
240-236592-9	DUP-01	Total Recoverable	Water	6010D	679122
MB 240-679122/1-A	Method Blank	Total Recoverable	Water	6010D	679122
LCS 240-679122/2-A	Lab Control Sample	Total Recoverable	Water	6010D	679122
240-236592-1 MS	MW-16-01	Total Recoverable	Water	6010D	679122
240-236592-1 MSD	MW-16-01	Total Recoverable	Water	6010D	679122

Analysis Batch: 679341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-236592-1	MW-16-01	Total Recoverable	Water	6020B	679122
240-236592-2	MW-16-02	Total Recoverable	Water	6020B	679122
240-236592-3	MW-16-03	Total Recoverable	Water	6020B	679122
240-236592-4	MW-16-04	Total Recoverable	Water	6020B	679122
240-236592-5	MW-16-05	Total Recoverable	Water	6020B	679122
240-236592-6	MW-16-06	Total Recoverable	Water	6020B	679122
240-236592-7	MW-16-07	Total Recoverable	Water	6020B	679122
240-236592-8	EB-01	Total Recoverable	Water	6020B	679122
240-236592-9	DUP-01	Total Recoverable	Water	6020B	679122
MB 240-679122/1-A	Method Blank	Total Recoverable	Water	6020B	679122
LCS 240-679122/3-A	Lab Control Sample	Total Recoverable	Water	6020B	679122
240-236592-2 MS	MW-16-02	Total Recoverable	Water	6020B	679122
240-236592-2 MSD	MW-16-02	Total Recoverable	Water	6020B	679122

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

General Chemistry

Analysis Batch: 679112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-236592-1	MW-16-01	Total/NA	Water	2540 C-2020	
240-236592-2	MW-16-02	Total/NA	Water	2540 C-2020	
240-236592-3	MW-16-03	Total/NA	Water	2540 C-2020	
240-236592-4	MW-16-04	Total/NA	Water	2540 C-2020	
240-236592-5	MW-16-05	Total/NA	Water	2540 C-2020	
240-236592-6	MW-16-06	Total/NA	Water	2540 C-2020	
240-236592-7	MW-16-07	Total/NA	Water	2540 C-2020	
240-236592-8	EB-01	Total/NA	Water	2540 C-2020	
240-236592-9	DUP-01	Total/NA	Water	2540 C-2020	
MB 240-679112/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-679112/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

Analysis Batch: 679179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-236592-1	MW-16-01	Total/NA	Water	9056A	
240-236592-1	MW-16-01	Total/NA	Water	9056A	
240-236592-2	MW-16-02	Total/NA	Water	9056A	
240-236592-2	MW-16-02	Total/NA	Water	9056A	
240-236592-3	MW-16-03	Total/NA	Water	9056A	
240-236592-3	MW-16-03	Total/NA	Water	9056A	
240-236592-4	MW-16-04	Total/NA	Water	9056A	
240-236592-4	MW-16-04	Total/NA	Water	9056A	
240-236592-5	MW-16-05	Total/NA	Water	9056A	
240-236592-5	MW-16-05	Total/NA	Water	9056A	
240-236592-6	MW-16-06	Total/NA	Water	9056A	
240-236592-6	MW-16-06	Total/NA	Water	9056A	
240-236592-7	MW-16-07	Total/NA	Water	9056A	
240-236592-7	MW-16-07	Total/NA	Water	9056A	
240-236592-8	EB-01	Total/NA	Water	9056A	
240-236592-9	DUP-01	Total/NA	Water	9056A	
240-236592-9	DUP-01	Total/NA	Water	9056A	
MB 240-679179/4	Method Blank	Total/NA	Water	9056A	
LCS 240-679179/5	Lab Control Sample	Total/NA	Water	9056A	
240-236592-5 MS	MW-16-05	Total/NA	Water	9056A	
240-236592-5 MS	MW-16-05	Total/NA	Water	9056A	
240-236592-5 MSD	MW-16-05	Total/NA	Water	9056A	
240-236592-5 MSD	MW-16-05	Total/NA	Water	9056A	

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-01

Lab Sample ID: 240-236592-1

Date Collected: 10/29/25 10:47

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6010D		1	679321	KLC	EET CLE	11/05/25 08:20
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6020B		1	679341	S4FJ	EET CLE	11/05/25 13:59
Total/NA	Analysis	2540 C-2020		1	679112	TAV2	EET CLE	11/04/25 10:08
Total/NA	Analysis	9056A		1	679179	JMR	EET CLE	11/04/25 17:50
Total/NA	Analysis	9056A		10	679179	JMR	EET CLE	11/04/25 17:59

Client Sample ID: MW-16-02

Lab Sample ID: 240-236592-2

Date Collected: 10/29/25 09:45

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6010D		1	679321	KLC	EET CLE	11/05/25 08:41
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6020B		1	679341	S4FJ	EET CLE	11/05/25 14:02
Total/NA	Analysis	2540 C-2020		1	679112	TAV2	EET CLE	11/04/25 10:08
Total/NA	Analysis	9056A		1	679179	JMR	EET CLE	11/04/25 18:09
Total/NA	Analysis	9056A		10	679179	JMR	EET CLE	11/04/25 18:18

Client Sample ID: MW-16-03

Lab Sample ID: 240-236592-3

Date Collected: 10/28/25 14:35

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6010D		1	679321	KLC	EET CLE	11/05/25 08:45
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6020B		1	679341	S4FJ	EET CLE	11/05/25 14:16
Total/NA	Analysis	2540 C-2020		1	679112	TAV2	EET CLE	11/04/25 10:08
Total/NA	Analysis	9056A		1	679179	JMR	EET CLE	11/04/25 18:27
Total/NA	Analysis	9056A		10	679179	JMR	EET CLE	11/04/25 18:36

Client Sample ID: MW-16-04

Lab Sample ID: 240-236592-4

Date Collected: 10/29/25 10:55

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6010D		1	679321	KLC	EET CLE	11/05/25 08:50
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6020B		1	679341	S4FJ	EET CLE	11/05/25 14:24
Total/NA	Analysis	2540 C-2020		1	679112	TAV2	EET CLE	11/04/25 10:08

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: MW-16-04

Lab Sample ID: 240-236592-4

Date Collected: 10/29/25 10:55

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	679179	JMR	EET CLE	11/04/25 18:45
Total/NA	Analysis	9056A		50	679179	JMR	EET CLE	11/04/25 18:54

Client Sample ID: MW-16-05

Lab Sample ID: 240-236592-5

Date Collected: 10/29/25 14:42

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6010D		1	679321	KLC	EET CLE	11/05/25 09:03
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6020B		1	679341	S4FJ	EET CLE	11/05/25 14:27
Total/NA	Analysis	2540 C-2020		1	679112	TAV2	EET CLE	11/04/25 10:08
Total/NA	Analysis	9056A		1	679179	JMR	EET CLE	11/04/25 19:04
Total/NA	Analysis	9056A		10	679179	JMR	EET CLE	11/04/25 19:50

Client Sample ID: MW-16-06

Lab Sample ID: 240-236592-6

Date Collected: 10/28/25 13:08

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6010D		1	679321	KLC	EET CLE	11/05/25 09:07
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6020B		1	679341	S4FJ	EET CLE	11/05/25 14:30
Total/NA	Analysis	2540 C-2020		1	679112	TAV2	EET CLE	11/04/25 10:08
Total/NA	Analysis	9056A		1	679179	JMR	EET CLE	11/04/25 20:17
Total/NA	Analysis	9056A		10	679179	JMR	EET CLE	11/04/25 20:26

Client Sample ID: MW-16-07

Lab Sample ID: 240-236592-7

Date Collected: 10/29/25 16:06

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6010D		1	679321	KLC	EET CLE	11/05/25 09:11
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6020B		1	679341	S4FJ	EET CLE	11/05/25 14:33
Total/NA	Analysis	2540 C-2020		1	679112	TAV2	EET CLE	11/04/25 10:08
Total/NA	Analysis	9056A		1	679179	JMR	EET CLE	11/04/25 20:35
Total/NA	Analysis	9056A		5	679179	JMR	EET CLE	11/04/25 20:45

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Client Sample ID: EB-01

Lab Sample ID: 240-236592-8

Date Collected: 10/28/25 10:56

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6010D		1	679321	KLC	EET CLE	11/05/25 09:15
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6020B		1	679341	S4FJ	EET CLE	11/05/25 14:35
Total/NA	Analysis	2540 C-2020		1	679112	TAV2	EET CLE	11/04/25 10:08
Total/NA	Analysis	9056A		1	679179	JMR	EET CLE	11/04/25 20:54

Client Sample ID: DUP-01

Lab Sample ID: 240-236592-9

Date Collected: 10/28/25 00:00

Matrix: Water

Date Received: 10/31/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6010D		1	679321	KLC	EET CLE	11/05/25 09:20
Total Recoverable	Prep	3005A			679122	BN	EET CLE	11/04/25 14:00
Total Recoverable	Analysis	6020B		1	679341	S4FJ	EET CLE	11/05/25 14:38
Total/NA	Analysis	2540 C-2020		1	679112	TAV2	EET CLE	11/04/25 10:08
Total/NA	Analysis	9056A		1	679179	JMR	EET CLE	11/04/25 21:03
Total/NA	Analysis	9056A		10	679179	JMR	EET CLE	11/04/25 21:30

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE RRLF HMP Uppermost Aquifer

Job ID: 240-236592-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	2250	09-30-26
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	02-27-26
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517	08-31-26
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26



Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____

Barberton Facility

Client TRC Environmental Site Name _____ Cooler unpacked by: H Barnes

Cooler Received on 10/31/25 Opened on 10/31/25

FedEx 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap Foam Plastic Bag None Other _____

COOLANT Water Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt See Multiple Cooler Form

IR GUN # 13 (CF + D) 6 °C Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 6 Yes No NA

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA

-Were tamper/custody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA

4 Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N) and sample type of grab/comp (Y/N)? Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12 Are these work share samples and all listed on the COC? Yes No NA

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HCS67196

14 Were VOAs on the COC? Yes No NA

15 Were air bubbles >6 mm in any VOA vials? Yes No NA

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA

17 Was a LL Hg or Me Hg trip blank present? _____ Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Labeled by: _____

Labels Verified by: _____

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation Date/Time VOAs Frozen _____

10/31/2025 Login Container Summary Report

240-236592

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
MW-16-01	240-236592-A-1	Plastic 60 mL - unpreserved				
MW-16-01	240-236592-B-1	Plastic 250ml - with Nitric Acid	<2			
MW-16-01	240-236592-C-1	Plastic 500ml - unpreserved				
MW-16-02	240-236592-A-2	Plastic 60 mL - unpreserved				
MW-16-02	240-236592-B-2	Plastic 250ml - with Nitric Acid	<2			
MW-16-02	240-236592-C-2	Plastic 500ml - unpreserved				
MW-16-03	240-236592-A-3	Plastic 60 mL - unpreserved				
MW-16-03	240-236592-B-3	Plastic 250ml - with Nitric Acid	<2			
MW-16-03	240-236592-C-3	Plastic 500ml - unpreserved				
MW-16-04	240-236592 A-4	Plastic 60 mL - unpreserved				
MW-16-04	240-236592-B-4	Plastic 250ml - with Nitric Acid	<2			
MW-16-04	240-236592-C-4	Plastic 500ml - unpreserved				
MW-16-05	240-236592-A-5	Plastic 60 mL - unpreserved				
MW-16-05	240-236592-B 5	Plastic 250ml - with Nitric Acid	<2			
MW-16-05	240-236592-C-5	Plastic 500ml - unpreserved				
MW-16-06	240-236592-A-6	Plastic 60 mL - unpreserved				
MW-16-06	240-236592-B-6	Plastic 250ml - with Nitric Acid	<2			
MW-16-06	240-236592-C-6	Plastic 500ml - unpreserved				
MW-16-07	240-236592-A-7	Plastic 60 mL - unpreserved				
MW-16-07	240-236592-B-7	Plastic 250ml - with Nitric Acid	<2			
MW-16-07	240-236592-C-7	Plastic 500ml - unpreserved				
EB-01	240-236592-A 8	Plastic 60 mL - unpreserved				
EB-01	240-236592-B-8	Plastic 250ml - with Nitric Acid	<2			
EB-01	240-236592-C-8	Plastic 500ml - unpreserved				
DUP-01	240-236592-A-9	Plastic 60 mL - unpreserved				
DUP-01	240-236592-B-9	Plastic 250ml - with Nitric Acid	<2			
DUP-01	240-236592-C-9	Plastic 500ml - unpreserved				

Appendix C

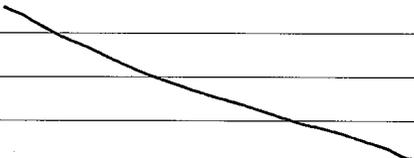
Field Notes



GENERAL NOTES

PROJECT NAME: DTE: RRLF CCR RRLF Sampl	DATE: <u>4/7/2025</u>	TIME ARRIVED: <u>11:00</u>
PROJECT NUMBER: 620061.0000.0000	AUTHOR: Andrew Whaley	TIME LEFT: <u>15:30</u>

WEATHER		
TEMPERATURE: <u>40</u> °F	WIND: <u>5-15</u> MPH	VISIBILITY: <u>Clear</u>
WORK / SAMPLING PERFORMED		
<u>Calibrate meter offsite ~ 10:10</u>		
<u>Evaluate MW-16-04 and MW-16-07</u>		
<u>MW-16-04 pumped down to 105.20 ~ 45 min</u>		
<u>MW-16-07 pumped down to 88.20 ~ 40 min</u>		
<u>Collect EB-01 on submersible pump, collect SWL (uppermost water</u>		
<u>to sample MW-16-06 and MW-16-03 Aquifer wells)</u>		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
<u>None</u>	

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
<u>Naameen Qureshi</u>	<u>DTE</u>	<u>Site contact</u>

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
<u>Gw</u>	<u>NM</u>	<u>Purge to ground</u>

 4/9/25  4/14/25
 SIGNED _____ DATE _____ CHECKED BY _____ DATE _____



GENERAL NOTES

PROJECT NAME: DTE: RRLF CCR RRLF Sampl	DATE: <u>4/8/2025</u>	TIME ARRIVED: <u>07:00</u>
PROJECT NUMBER: 620061.0000.0000	AUTHOR: Andrew Whaley	TIME LEFT: <u>14:40</u>

WEATHER

TEMPERATURE: 22 °F WIND: 5-15 MPH VISIBILITY: Clear

WORK / SAMPLING PERFORMED

Check in w/ Guard Shack and site contact
 Calibrate Meter
 Sample MW-16-04, MW-16-02, MW-16-01, MW-16-05, MW-16-07
 Meeting w/ DTE @ SCPP 11:00 - 12:00 offsite 10:30 - 12:15

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
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<u>None</u>	
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COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
<u>Nasreen Qureshi</u>	<u>DTE</u>	<u>Site contact - updates</u>

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS
<u>GW</u>	<u>NM</u>	<u>None ^(AW) - Purged to ground</u>

Andrew Whaley 4/9/25 A. Crude 4/11/25
 SIGNED DATE CHECKED BY DATE



EQUIPMENT SUMMARY

PROJECT NAME:	DTE: RRLF CCR RRLF Sam	SAMPLER NAME: Andrew Whaley
PROJECT NO.:	620061.0000.0000	

WATER LEVEL MEASUREMENTS COLLECTED WITH:

HERON DIPPER-T	PROJECT DEDICATED
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

PRODUCT LEVEL MEASUREMENTS COLLECTED WITH:

NA	NA
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:

HERON DIPPER-T	PROJECT DEDICATED
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

PURGING METHOD

BLADDER PUMP (DEDICATED)	PROJECT DEDICATED
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)

SAMPLING METHOD

BLADDER PUMP (DEDICATED)	PROJECT DEDICATED
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)
NA	NA
NAME AND MODEL OF FILTRATION DEVICE	FILTER TYPE AND SIZE
DEDICATED <u>Polyethylene (PE)</u> TUBING TUBING TYPE	<input checked="" type="checkbox"/> LOW-FLOW SAMPLING EVENT

PURGE WATER DISPOSAL METHOD

GROUND
 DRUM
 POTW
 POLYTANK
 OTHER _____

DECONTAMINATION AND FIELD BLANK WATER SOURCE

STORE BOUGHT	LABORATORY PROVIDED
POTABLE WATER SOURCE	DI WATER SOURCE
<u>[Signature]</u> SIGNED	<u>[Signature]</u> CHECKED BY
<u>4/19/25</u> DATE	<u>4/14/25</u> DATE



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE: RRLF CCR RRLF Sample & Report	MODEL: YSI Pro DSS	SAMPLER: AW
PROJECT NO.:	620061.0000.0000	SERIAL #: PROJECT	DATE: 4/7/25

PH CALIBRATION CHECK

pH 7 (LOT #): 56A0404 (EXP. DATE): Jan 27	pH 10 (LOT #): 56A0430 (EXP. DATE): Jan 27	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.04 / 7.04	4.00 / 4.00	<input checked="" type="checkbox"/> WITHIN RANGE	10:10
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): 56A0816 (EXP. DATE): Jan 26	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
1120 / 1120	14.5	<input checked="" type="checkbox"/> WITHIN RANGE	10:16
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): 24D100351 (EXP. DATE): APR 129	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
218.4 / 218.4	14.8	<input checked="" type="checkbox"/> WITHIN RANGE	10:20
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CAL. READING	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / SATURATED AIR			
10.3 / 10.3	15.2	<input checked="" type="checkbox"/> WITHIN RANGE	10:24
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): 2102024 (EXP. DATE): 6/12/24	(LOT #): NM (EXP. DATE): NM		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
0.0 / 0.0	10 / 10	<input checked="" type="checkbox"/> WITHIN RANGE	10:30
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input type="checkbox"/> AUTOCAL SOLUTION	<input checked="" type="checkbox"/> STANDARD SOLUTION (S)
(LOT #):	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE):	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

Separate Turbidity meter
LaMotte 2020e

PROBLEMS ENCOUNTERED

None

CORRECTIVE ACTIONS

/

[Signature] 4/19/25
SIGNED DATE

[Signature] 4/14/25
CHECKED BY DATE



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE: RRLF CCR RRLF Sample & Report	MODEL: YSI Pro DSS	SAMPLER: AW
PROJECT NO.:	620061.0000.0000	SERIAL #: PROJECT	DATE: 4/18/2025

PH CALIBRATION CHECK

PH 7	PH 10	CAL. RANGE	TIME
(LOT #): 56A0404 (EXP. DATE): Jan/27	(LOT #): 56A0430 (EXP. DATE): Jan/27		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.08 / 7.08	4.00 / 4.00	<input checked="" type="checkbox"/> WITHIN RANGE	0715
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #): 56A0816 (EXP. DATE): Jan/26	(°CELSIUS)		
POST-CAL. READING / STANDARD			
987 / 987	6.4	<input checked="" type="checkbox"/> WITHIN RANGE	07:2
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #): 24D100351 (EXP. DATE): Apr/29	(°CELSIUS)		
POST-CAL. READING / STANDARD			
251.2 / 251.2	6.7	<input checked="" type="checkbox"/> WITHIN RANGE	0724
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
	(°CELSIUS)		
POST-CAL. READING / SATURATED AIR			
11.2 / 11.2	10.6	<input checked="" type="checkbox"/> WITHIN RANGE	0728
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): 21080024 (EXP. DATE): 9/22	(LOT #): NM (EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
0.00 / 0.00	10 / 10	<input checked="" type="checkbox"/> WITHIN RANGE	0732
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input type="checkbox"/> AUTOCAL SOLUTION	<input checked="" type="checkbox"/> STANDARD SOLUTION (S)
(LOT #):	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE):	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	

⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

Separate Turbidity Meter
Lamotte 2020+

PROBLEMS ENCOUNTERED

None

CORRECTIVE ACTIONS

SIGNED: *[Signature]* DATE: 4/18/25

CHECKED BY: *[Signature]* DATE: 4/18/2025



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample		PREPARED		CHECKED	
PROJECT NUMBER: 620061.0000.0000		BY: AW	DATE: 4/18/25	BY: <i>AG</i>	DATE: 4-15-25
SAMPLE ID: <i>MW-16-01</i>		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING	TIME: <i>09:45</i>	DATE: <i>4/18/25</i>	SAMPLE	TIME: <i>10:05</i>	DATE: <i>4/18/25</i>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (DEDICATED)			PH: <i>7.35</i> SU	CONDUCTIVITY: <i>1850</i> umhos/cm	
<input checked="" type="checkbox"/> SAILER			ORP: <i>-100.6</i> mV	DO: <i>1.50</i> mg/L	
DEPTH TO WATER: <i>17.52</i> T/ PVC		TURBIDITY: <i>3.24</i> NTU			
DEPTH TO BOTTOM: <i>NM</i> T/ PVC		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
WELL VOLUME: <i>NM</i> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: <i>9.6</i> °C		OTHER:	
VOLUME REMOVED: <i>4.0</i> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		COLOR: <i>Clear</i>		ODOR: <i>None</i>	
COLOR: <i>Clear</i> ODOR: <i>None</i>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
TURBIDITY		FILTRATE COLOR:		FILTRATE ODOR:	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- <i>01</i>			
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		COMMENTS:			

TIME	PURGE RATE (ML/MIN)	PH 7.1-8.2 (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
<i>09:45</i>	<i>200</i>	<i>7.17</i>	<i>1728</i>	<i>-88.4</i>	<i>3.10</i>	<i>3.46</i>	<i>9.0</i>	<i>17.52</i>	INITIAL
<i>09:50</i>	↓	<i>7.18</i>	<i>1785</i>	<i>-91.8</i>	<i>1.90</i>	<i>4.21</i>	<i>9.3</i>	↓	<i>1.0</i>
<i>09:55</i>	↓	<i>7.29</i>	<i>1896</i>	<i>-94.9</i>	<i>1.88</i>	<i>2.39</i>	<i>9.4</i>	↓	<i>2.0</i>
<i>10:00</i>	↓	<i>7.37</i>	<i>1863</i>	<i>-99.6</i>	<i>1.50</i>	<i>3.71</i>	<i>9.5</i>	↓	<i>3.0</i>
<i>10:05</i>	↓	<i>7.35</i>	<i>1850</i>	<i>-100.6</i>	<i>1.50</i>	<i>3.24</i>	<i>9.6</i>	↓	<i>4.0</i>

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
<i>2</i>	<i>500mL</i>	<i>PLASTIC</i>	<i>A</i>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
<i>2</i>	<i>250 mL</i>	<i>PLASTIC</i>	<i>B</i>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
<i>2</i>	<i>60 mL</i>	<i>PLASTIC</i>	<i>A</i>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <i>Carrier</i>	DATE SHIPPED: <i>4/19/2025</i>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <i>A. Whitley</i>	DATE SIGNED: <i>4/19/25</i>



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AW	DATE: <u>4/15/25</u>

SAMPLE ID: <u>MW-16-02</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>04:05</u>	DATE: <u>4/15/25</u>	SAMPLE	TIME: <u>09:30</u>	DATE: <u>4/15/25</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED)			PH: <u>8.26</u> SU	CONDUCTIVITY: <u>1620</u> umhos/cm	
<input checked="" type="checkbox"/> BAILER			ORP: <u>-225.3</u> mV	DO: <u>0.10</u> mg/L	
DEPTH TO WATER: <u>20.42</u> T/ PVC			TURBIDITY: <u>2.42</u> NTU		
DEPTH TO BOTTOM: <u>NM</u> T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>NM</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: <u>8.6</u> °C	OTHER: <u>—</u>	
VOLUME REMOVED: <u>5.0</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: <u>Clear</u>	ODOR: <u>None</u>	
COLOR: <u>Clear</u>	ODOR: <u>None</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY			FILTRATE COLOR: <u>—</u>		
<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE ODOR: <u>—</u>		
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL ORG)
<u>09:05</u>	<u>200</u>	<u>8.09</u>	<u>1711</u>	<u>-60.4</u>	<u>1.94</u>	<u>17.2</u>	<u>8.2</u>	<u>20.42</u>	INITIAL
<u>09:10</u>	↓	<u>7.95</u>	<u>1635</u>	<u>-137.8</u>	<u>0.83</u>	<u>4.78</u>	<u>8.4</u>	<u>20.80</u>	<u>1.0</u>
<u>09:15</u>	↓	<u>8.07</u>	<u>1630</u>	<u>-176.5</u>	<u>0.24</u>	<u>3.36</u>	<u>8.5</u>	↓	<u>2.0</u>
<u>09:20</u>	↓	<u>8.20</u>	<u>1610</u>	<u>-211.5</u>	<u>0.14</u>	<u>3.64</u>	<u>8.5</u>	↓	<u>3.0</u>
<u>09:25</u>	↓	<u>8.25</u>	<u>1593</u>	<u>-222.6</u>	<u>0.11</u>	<u>2.88</u>	<u>8.6</u>	↓	<u>4.0</u>
<u>09:30</u>	↓	<u>8.26</u>	<u>1620</u>	<u>-225.3</u>	<u>0.10</u>	<u>2.42</u>	<u>8.6</u>	↓	<u>5.0</u>

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
<u>1</u>	<u>500mL</u>	<u>PLASTIC</u>	<u>A</u>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
<u>1</u>	<u>250 mL</u>	<u>PLASTIC</u>	<u>B</u>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
<u>1</u>	<u>60 mL</u>	<u>PLASTIC</u>	<u>A</u>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: <u>Carrier</u>	DATE SHIPPED: <u>4/19/25</u>	AIRBILL NUMBER: <u>—</u>
COC NUMBER: <u>—</u>	SIGNATURE: <u>A. White</u>	DATE SIGNED: <u>4/19/25</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample		PREPARED		CHECKED	
PROJECT NUMBER: 620061.0000.0000		BY: AW	DATE: 4/7/25	BY: AG	DATE: 4-15-25
SAMPLE ID: MW-16-03		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING	TIME: 1425	DATE: 4/7/25	SAMPLE	TIME: 1505	DATE: 4/7/25
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (DEDICATED)			PH: 8.04 SU	CONDUCTIVITY: 1414 umhos/cm	
<input checked="" type="checkbox"/> BAILER			ORP: -168.5 mV	DO: 0.10 mg/L 1.413	
DEPTH TO WATER: 19.42 T/ PVC		TURBIDITY: 1.92 NTU 0.20			
DEPTH TO BOTTOM: NM T/ PVC		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: 9.9 °C		OTHER: —	
VOLUME REMOVED: 8.0 <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		COLOR: Clear		ODOR: None	
COLOR: Clear		ODOR: None		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
TURBIDITY		FILTRATE COLOR:		FILTRATE ODOR:	
<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-			
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		COMMENTS:			

TIME	PURGE RATE (ML/MIN)	PH	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR)
1425	200	8.04	1417	-15.9	1.59	12.7	10.0	19.42	INITIAL
1430	↓	7.60	1412	-40.2	0.51	2.71	9.9	↓	1.0
1435		7.77	1408	-102.9	0.49	2.22	9.9		2.0
1440		7.82	1413	-140.6	0.35	2.05	9.8		3.0
1445		7.87	1410	-148.2	0.37	2.19	9.8		4.0
1450		7.90	1412	-154.2	0.24	1.64	9.8		5.0
1455		7.96	1413	-160.1	0.22	1.51	9.9		6.0
1500		8.01	1415	-164.6	0.21	1.27	9.9		7.0
1505		8.04	1413	-168.1	0.20	1.92	9.9		8.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	60 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: Courier	DATE SHIPPED: 4/9/25	AIRBILL NUMBER: —
COC NUMBER: —	SIGNATURE: A. White	DATE SIGNED: 4/9/25



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AW DATE: 4/18/25	BY: <u>AW</u> DATE: 4/15/25

SAMPLE ID: <u>MW-16-04</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING TIME: <u>07:54</u> DATE: <u>4/18/25</u>	SAMPLE TIME: <u>0829</u> DATE: <u>4/18/25</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input checked="" type="checkbox"/> BAILER	PH: <u>7.92</u> SU CONDUCTIVITY: <u>6765</u> umhos/cm ORP: <u>-196.9</u> mV DO: <u>0.14</u> mg/L
DEPTH TO WATER: <u>18.95</u> T/ PVC	TURBIDITY: <u>5.66</u> NTU <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY
DEPTH TO BOTTOM: <u>NM</u> T/ PVC	TEMPERATURE: <u>9.8</u> °C OTHER: <u>—</u>
WELL VOLUME: <u>NM</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	COLOR: <u>Clear</u> ODOR: <u>None</u>
VOLUME REMOVED: <u>7.0</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
COLOR: <u>Clear</u> ODOR: <u>None</u>	FILTRATE COLOR: <u>—</u> FILTRATE ODOR: <u>—</u>
TURBIDITY <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- <u>—</u>
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER	COMMENTS: <u>Well evacuated on 4/17/25</u>

TIME	PURGE RATE (GAL/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
07:54	<u>2.00</u>	<u>6.40</u>	<u>6790</u>	<u>55.1</u>	<u>0.90</u>	<u>4.65</u>	<u>9.8</u>	<u>19.62</u>	INITIAL
0759	↓	<u>6.60</u>	<u>6856</u>	<u>42.4</u>	<u>0.48</u>	<u>3.24</u>	<u>9.7</u>	<u>22.28</u>	<u>1.0</u>
0804	↓	<u>7.10</u>	<u>6888</u>	<u>22.2</u>	<u>0.32</u>	<u>9.65</u>	<u>9.8</u>	<u>24.90</u>	<u>2.0</u>
0809	↓	<u>7.40</u>	<u>6769</u>	<u>-14.6</u>	<u>0.25</u>	<u>8.77</u>	<u>9.8</u>	<u>26.38</u>	<u>3.0</u>
0814	↓	<u>7.80</u>	<u>6754</u>	<u>-127.1</u>	<u>0.20</u>	<u>9.03</u>	<u>9.8</u>	<u>30.10</u>	<u>4.0</u>
0819	↓	<u>7.95</u>	<u>6753</u>	<u>-188.0</u>	<u>0.16</u>	<u>7.67</u>	<u>9.7</u>	<u>33.71</u>	<u>5.0</u>
0824	↓	<u>7.94</u>	<u>6760</u>	<u>-196.9</u>	<u>0.16</u>	<u>7.10</u>	<u>9.7</u>	<u>36.22</u>	<u>6.0</u>
0829	↓	<u>7.92</u>	<u>6765</u>	<u>-196.9</u>	<u>0.14</u>	<u>5.66</u>	<u>9.8</u>	<u>39.50</u>	<u>7.0</u>

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
1	500mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	60 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: <u>Courier</u>	DATE SHIPPED: <u>4/19/25</u>	AIRBILL NUMBER: <u>—</u>
COC NUMBER: <u>—</u>	SIGNATURE: <u>A. White</u>	DATE SIGNED: <u>4/19/25</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AW	DATE: 4/8/25
	BY: <i>AG</i>	DATE: 4-15-25

SAMPLE ID: <u>MW-16-05</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>12:33</u>	DATE: <u>4/8/25</u>	SAMPLE	TIME: <u>13:08</u>	DATE: <u>4/8/25</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (DEDICATED)			PH: <u>8.03</u> SU	CONDUCTIVITY: <u>1520</u> umhos/cm	
<input checked="" type="checkbox"/> SAILER			ORP: <u>-127.9</u> mV	DO: <u>0.67</u> mg/L	
DEPTH TO WATER: <u>27.14</u> T/ PVC			TURBIDITY: <u>1.46</u> NTU		
DEPTH TO BOTTOM: <u>NM</u> T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>NM</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: <u>10.4</u> °C	OTHER: _____	
VOLUME REMOVED: <u>7.0</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: <u>Clear</u>	ODOR: <u>None</u>	
COLOR: <u>Clear</u>	ODOR: <u>None</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS: _____		

TIME	PURGE RATE (ML/MIN)	PH (SD)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1233	200	7.31	1430	-25.9	3.30	3.56	10.4	27.14	INITIAL
1238	↓	7.14	1679	-67.6	1.46	2.61	10.3	27.33	1.0
1243		7.41	1718	-88.5	1.13	2.86	10.2	27.30	2.0
1248		7.63	1651	-107.0	0.88	2.10	10.2		3.0
1253		7.79	1608	-113.4	0.67	1.32	10.4		4.0
1258		7.95	1543	-121.7	0.70	2.20	10.3		5.0
1303		7.99	1531	-123.6	0.73	1.81	10.3		6.0
1308		8.03	1520	-127.9	0.67	1.46	10.4		7.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
1	500mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	60 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: <u>Carrier</u>	DATE SHIPPED: <u>4/9/25</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u><i>A. W. [Signature]</i></u>	DATE SIGNED: <u>4/9/25</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AW	DATE: <u>4/17/25</u> BY: <u>AW</u> DATE: <u>4.15.25</u>

SAMPLE ID: <u>MW-16-06</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>13:18</u>	DATE: <u>4/17/25</u>	SAMPLE	TIME: <u>14:08</u>	DATE: <u>4/17/25</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input checked="" type="checkbox"/> BAILER	PH: <u>7.64</u> SU	CONDUCTIVITY: <u>1657</u> umhos/cm	ORP: <u>-113.4</u> mV	DO: <u>0.13</u> mg/L	
DEPTH TO WATER: <u>23.10</u> T/ PVC	TURBIDITY: <u>1.50</u> NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
DEPTH TO BOTTOM: <u>NM</u> T/ PVC	TEMPERATURE: <u>10.3</u> °C	OTHER: _____			
WELL VOLUME: <u>NM</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	COLOR: <u>clear</u>	ODOR: <u>None</u>			
VOLUME REMOVED: <u>15</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FILTRATE COLOR: _____ FILTRATE ODOR: _____			
COLOR: <u>Slightly cloudy</u> ODOR: <u>None</u>	TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____			
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR)
13:18	200	6.80	1750 1750	17.2	1.10	2.3	10.5	23.10	INITIAL
13:23	300	7.22	1780	-18.4	0.51	4.56	10.4	23.20	1.5
13:28		7.34	1774	-64.2	0.33	1.36	10.4	23.20	3.0
13:33		7.40	1765	-86.1	0.27	1.84	10.4	23.20	4.5
13:38		7.43	1729	-104.9	0.17	2.55	10.4	23.20	6.0
13:43		7.45	1718	-107.5	0.17	2.66	10.4	23.20	7.5
13:48		7.50	1710	-109.2	0.17	2.20	10.4	23.20	9.0
13:53		7.53	1690	-111.2	0.16	1.87	10.3	23.20	10.5
13:58	7.59	7.57	1681	-112.6	0.15	1.46	10.3	23.20	12.0
14:03		7.61	1662	-113.2	0.13	1.29	10.3	23.20	13.5

Cont.

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
1	500mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	60 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: <u>courier</u>	DATE SHIPPED: <u>4/19/25</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>A. Wheeler</u>	DATE SIGNED: <u>4/19/25</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AW	DATE: 4/18/25

SAMPLE ID: AW-16-07 MW-16-07	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 13:40	DATE: 4/18/25	SAMPLE	TIME: 14:30	DATE: 4/18/25
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED)			PH: 7.48	SU	CONDUCTIVITY: 893 umhos/cm
<input checked="" type="checkbox"/> BAILER			ORP: -115.4 mV	DO: 0.10	mg/L
DEPTH TO WATER: 19.15 T/ PVC			TURBIDITY: 26.7	NTU	
DEPTH TO BOTTOM: NM T/ PVC			<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: 9.7	°C	
VOLUME REMOVED: 8.0 <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: Clear	ODOR: None	
COLOR: Clear			ODOR: None		
TURBIDITY			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____		
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: Continuously required to bail FLMC					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR)
1340	200	7.42	910	-78.9	2.40	15.2	9.6	19.20	INITIAL
1345		6.23	904	-16.2	0.58	18.8	9.3	19.10	1.0
1350		6.77	900	-91.4	0.23	19.8	9.5	19.28	2.0
1355		7.00	896	-56.4	0.17	18.9	9.5	19.45	3.0
1400		7.27	895	-83.9	0.15	22.0	9.7	19.60	4.0
1405		7.30	898	-87.7	0.14	23.2	9.7	19.68	5.0
1410		7.38	895	-89.6	0.12	24.3	9.7	19.75	6.0
1415		7.45	896	-112.2	0.09	26.0	9.7	19.85	7.0
1420		7.48	893	-115.4	0.10	26.7	9.7	19.95	8.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	60 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>Carrier</u>	DATE SHIPPED: <u>4/19/25</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>A. Walsh</u>	DATE SIGNED: <u>4/19/25</u>

Chain of Custody Record

Client Information
 Client Contact: Mr. Vincent Bueuing
 Company: TRC Environmental Corporation.
 Address: 1540 Eisenhower Place
 City: Ann Arbor
 State Zip: MI, 48108-7080
 Phone: 313-971-7080(Tel) 313-971-9022(Fax)
 Email: vbuening@trccompanies.com
 Project Name: CCR DTE RRLF HMP Uppermost Aquifer
 Site: Michigan

Sampler: Andrew Lohaley
 Phone: 734-210-9239
 Lab Pk: Brooks, Kris M
 E-Mail: Kris.Brooks@at.eurofins.com
 Carrier Tracking No(s):
 State of Origin: MI
 Page: Page 1 of 1
 Job #: 240-131463-31929_1

Due Date Requested: Standard
 TAT Requested (days): Standard
 Compliance Project: Standard
 PO #: 229347
 WO #: 620061.0000
 Project #: 24016807
 SSON#:

Analysis Requested
 Field Filtered Sample (Yes or No) Yes
 Perform MS/MSD (Yes or No) Yes
 6010 Bo, 6020 Ca, Fe
 2540C_Calcd - TDS
 9056A_28D - Chloride, Fluoride and Sulfate
 Preservation Codes:
 D - HNO3
 N - None
 Other:

Sample Identification	Sample Date	Sample Time	Sample Type (IC=comp, G=grab)	Matrix (Water, Soil, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010 Bo, 6020 Ca, Fe	2540C_Calcd - TDS	9056A_28D - Chloride, Fluoride and Sulfate	Total Number of containers	Special Instructions/Note:
EB-01	4/7/25	15:20	G	Water	X	X	X	X	X	3	
MW-16-06	4/7/25	14:08	G	Water	X	X	X	X	X	3	
MW-16-03	4/7/25	15:05	G	Water	X	X	X	X	X	3	
MW-16-04	4/8/25	08:29	G	Water	X	X	X	X	X	3	
MW-16-02	4/8/25	09:35	G	Water	X	X	X	X	X	3	
MW-16-01	4/8/25	10:05	G	Water	X	X	X	X	X	3	
MW-16-05	4/8/25	13:08	G	Water	X	X	X	X	X	3	
MW-16-07	4/8/25	14:20	G	Water	X	X	X	X	X	3	
Dub-01	4/8/25	-	G	Water	X	X	X	X	X	3	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) TRC EDD

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: TRC Date/Time: 4/9/25 06:40
 Relinquished by: TRC Date/Time: 4/9/25 8:29

Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____
 Method of Shipment: _____
 Received by: TRC Storage Date/Time: 4/9/25 06:40
 Received by: TRC Date/Time: 4/9/25 09:31



PROJECT NAME: DTE: RRLF CCR RRLF Sample & Report

PROJECT NUMBER: 620061.0000.0000

PROJECT MANAGER: Vince Buening

SITE LOCATION: China Township, Michigan

DATES OF FIELDWORK: 10/27/2025 TO 10/31/2025

Second Semiannual Sampling Event 2025

PURPOSE OF FIELDWORK:

A. Yaasiin, E. Wielgopolski

WORK PERFORMED BY:

A. Yaasiin 11-11-25
 SIGNED DATE

E. Wielgopolski 11/13/25
 CHECKED BY DATE

44



GENERAL NOTES

(M)

PROJECT NAME: DTE: RRLF CCR RRLF Sampl	DATE: 10-29-25	TIME ARRIVED: 0730
PROJECT NUMBER: 620061.0000.0000	AUTHOR: A. Yaasiin, E. Wielgopo	TIME LEFT: 1640

WEATHER		
TEMPERATURE: 65 °F	WIND: 0-5 MPH	VISIBILITY: Clear
WORK / SAMPLING PERFORMED		
- Checked in with security		
- Pumped out MW-16-04 & MW-16-06; sampled MW-16-(1, 2, 3, 4) along with 02-W-113		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
- Well wasn't in acceptable pH range	- Spoke with PM Vince, who advised falsing the sample

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
Narmeen Q	DTE	Site Contact / Security Director
Vincent B	TRC	PM

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
G-W	NM	Purged to ground

A. Yaasiin 11-10-25
 SIGNED DATE

E. Wielgopo 11/11/25
 CHECKED BY DATE



GENERAL NOTES

PROJECT NAME: DTE: RRLF CCR RRLF Sampl	DATE: <u>10-28-25</u>	TIME ARRIVED: <u>0730</u>
PROJECT NUMBER: 620061.0000.0000	AUTHOR: <u>A. Yaasiin, E. Wielgopo</u>	TIME LEFT: <u>1600</u>

WEATHER		
TEMPERATURE: <u>65</u> °F	WIND: <u>0-5</u> MPH	VISIBILITY: <u>Clear</u>
WORK / SAMPLING PERFORMED		
<u>- Checked in with security</u>		
<u>- Sampled wells MW-16-04 & 06; 02 W-114R,</u>		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
<u>N/A</u>	

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
<u>Mameen Q</u>	<u>DTE</u>	<u>Site Contact / Security Director</u>
<u>Vincent B</u>	<u>TRC</u>	<u>PM</u>

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
<u>G-W</u>	<u>NM</u>	<u>Reused to grow up</u>

[Signature] 11-10-25
 SIGNED DATE

[Signature] - 11/11/25
 CHECKED BY DATE



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE: RRLF CCR RRLF Sample & Report	MODEL: YSI Pro DSS	SAMPLER: <u>AY</u> EW
PROJECT NO.:	620061.0000.0000	SERIAL #: PROJECT	DATE: <u>10-29-25</u>

PH CALIBRATION CHECK

pH 7		pH 4 / 10		CAL. RANGE	TIME
(LOT #):	(EXP. DATE):	(LOT #):	(EXP. DATE):		
5661735	JUL/27	5642207	AUG/27		
POST-CAL. READING / STANDARD		POST-CAL. READING / STANDARD			
7.00	17.00	4.00	14.00	<input checked="" type="checkbox"/> WITHIN RANGE	1123
/	/	/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #):	(°CELSIUS)		
5642024			
(EXP. DATE): AUG/26			
POST-CAL. READING / STANDARD			
1075	10.8	<input checked="" type="checkbox"/> WITHIN RANGE	1129
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #):	(°CELSIUS)		
251100492			
(EXP. DATE): 2030-01-20			
POST-CAL. READING / SATURATED AIR			
242.4	11.6	<input checked="" type="checkbox"/> WITHIN RANGE	1132
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #):	(°CELSIUS)		
POST-CAL. READING / SATURATED AIR			
11.23mg/L	10.4	<input checked="" type="checkbox"/> WITHIN RANGE	1135
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #):	(EXP. DATE):		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input type="checkbox"/> AUTOCAL SOLUTION	<input checked="" type="checkbox"/> STANDARD SOLUTION (S)
(LOT #):	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE):	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	
<input type="checkbox"/> _____	

⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

Turbidity done with Lammotte

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

Assessin
SIGNED

11-10-25
DATE

9 Wijk
CHECKED BY

11/11/25
DATE



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AY (EW) DATE: 10/27	BY: AV DATE: 11/13/25

SAMPLE ID: Deep Well WLS

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
<u>Well #</u>		<u>Time</u>	<u>DTW</u>						
MW-16-01		1338	18.37						
MW-16-02		1739	20.86						
MW-16-03		1036	20.15	70.3 (EW)					
MW-16-04		1046	19.43	77.48 (EW)					
MW-16-05		1332	27.52						
MW-16-06		1105	23.83	92.59 (EW)					
MW-16-07		1344	15.95						
<u>Reference - Top of casing</u>									

DTB measurements not needed.

SIGNATURE: [Signature]

DATE SIGNED: 11/11/25



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AY EW DATE: <u>10-28-25</u>	BY: <u>EW</u> DATE: <u>11/11</u>

SAMPLE ID: <u>MW-16-01</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1032</u>	DATE: <u>10-28-25</u>	SAMPLE	TIME: <u>1047</u>	DATE: <u>10-28-25</u>
PURGE METHOD: <input type="checkbox"/> PUMP PERISTALTIC PUMP <input checked="" type="checkbox"/> BAILER	PH: <u>7.35</u> SU		CONDUCTIVITY: <u>1781</u> umhos/cm		
DEPTH TO WATER: <u>18.33</u> T/ PVC	ORP: <u>-70.1</u> mV		DO: <u>0.53</u> mg/L		
DEPTH TO BOTTOM: <u>-</u> T/ PVC	TURBIDITY: <u>3.68</u> NTU		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>3.1M</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	TEMPERATURE: <u>10.8</u> °C		OTHER: _____		
VOLUME REMOVED: <u>4.5</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	COLOR: <u>clear</u>		ODOR: <u>moderate</u>		
COLOR: <u>clear</u>	ODOR: <u>moderate</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: <u>-</u>		
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE ODOR: <u>-</u>		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
<u>1032</u>	<u>3.00</u>	<u>7.28</u>	<u>1786</u>	<u>-15.8</u>	<u>1.68</u>	<u>1.69</u>	<u>11.0</u>	<u>18.33</u>	INITIAL
<u>1037</u>		<u>7.26</u>	<u>1777</u>	<u>-34.0</u>	<u>0.82</u>	<u>2.21</u>	<u>10.9</u>		<u>1.5</u>
<u>1042</u>		<u>7.34</u>	<u>1803</u>	<u>-63.0</u>	<u>0.89</u>	<u>1.41</u>	<u>10.8</u>		<u>3</u>
<u>1047</u>		<u>7.35</u>	<u>1781</u>	<u>-70.1</u>	<u>0.53</u>	<u>3.68</u>	<u>10.8</u>		<u>4.5</u>

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
<u>3</u>	<u>40 mL</u>	<u>VOA</u>	<u>E</u>	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
<u>1</u>	<u>500mL</u>	<u>PLASTIC</u>	<u>A</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
<u>2</u>	<u>250 mL</u>	<u>PLASTIC</u>	<u>A</u>	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
<u>1</u>	<u>250mL</u>	<u>Plastic</u>	<u>B</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
<u>1</u>	<u>60mL</u>	<u>Plastic</u>	<u>A</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>carrier</u>	DATE SHIPPED: <u>10-30-25</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>AY</u>	DATE SIGNED: <u>11-11-25</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AY EW DATE: <u>10-29-25</u>	BY: <u>EW</u> DATE: <u>11/11/25</u>

SAMPLE ID: <u>MW-16-02</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING TIME: <u>0920</u> DATE: <u>10-29-25</u>	SAMPLE TIME: <u>0945</u> DATE: <u>10-29-25</u>
PURGE METHOD: <input type="checkbox"/> PUMP PERISTALTIC PUMP <input checked="" type="checkbox"/> BAILER	PH: <u>8.04</u> SU CONDUCTIVITY: <u>1547</u> umhos/cm
DEPTH TO WATER: <u>11.19</u> T/ PVC	ORP: <u>-139.7</u> mV DO: <u>0.44</u> mg/L
DEPTH TO BOTTOM: <u>—</u> T/ PVC	TURBIDITY: <u>6.08</u> NTU
WELL VOLUME: <u>—</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY
VOLUME REMOVED: <u>7</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	TEMPERATURE: <u>10.1</u> °C OTHER: <u>—</u>
COLOR: <u>clear</u> ODOR: <u>moderate</u>	COLOR: <u>clear</u> ODOR: <u>moderate</u>
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER	FILTRATE COLOR: <u>—</u> FILTRATE ODOR: <u>—</u>
	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-
	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0920	300	8.95	1673	149.0	6.61	3.81	10.5	11.19	INITIAL
0925	1	7.24	1594	75.0	1.01	6.97	10.1		2
0930	1	7.80	1576	20.0	0.54	3.83	10.1		4
0935	200	8.00	1515	-63.1	0.66	1.86	10.1		5
0940	1	8.06	1478	-110.1	0.48	1.28	10.2		6
0945	1	8.04	1547	-139.7	0.44	6.08	10.1		7

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

(AY)

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	60 mL	Plush	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>Course</u>	DATE SHIPPED: <u>10-30-25</u>	AIRBILL NUMBER: <u>—</u>
COC NUMBER: <u>—</u>	SIGNATURE: <u>AY</u>	DATE SIGNED: <u>11-25</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AY EW DATE: 10-28	BY: EW DATE: 11/1/25

SAMPLE ID: MW-16-03	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1340	DATE: 10-28-25	SAMPLE	TIME: 1435	DATE: 10-28
PURGE METHOD: <input type="checkbox"/> PUMP PERISTALTIC PUMP <input checked="" type="checkbox"/> BAILER	PH: 8.05 SU		CONDUCTIVITY: 1396 umhos/cm		
DEPTH TO WATER: 20.03 T/ PVC	ORP: -169.9 mV		DO: 0.48 mg/L		
DEPTH TO BOTTOM: T/ PVC	TURBIDITY: 0.48 NTU 4.96		<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: LITERS GALLONS	TEMPERATURE: 11.6 °C		OTHER:		
VOLUME REMOVED: 16.5 LITERS GALLONS	COLOR: Clear		ODOR: none		
COLOR: Clear	ODOR: Slight		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: FILTRATE ODOR:		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- 01		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1340	300	7.76	1433	36.2	6.31	1.74	14.6	20.03	INITIAL
1345		7.58	1397	-2.2	0.86	2.27	11.7		1.5
1350		7.57	1391	-36.7	0.71	3.73	11.7		3
1355		7.69	1342	-78.2	0.62	3.21	11.8		4.5
1400		7.76	1397	-102.5	0.63	3.35	11.6		5
1405		7.85	1395	-129.0	0.66	4.49	11.3		7.5
1410		7.89	1397	-143.1	0.67	3.23	11.7		9
1415		7.93	1394	-152.8	0.58	3.58	11.5	10.5	
1420		7.86	1394	-157.9	0.59	4.68	11.5	12	
1420		8.01	1396	-163.8	0.49	3.85	11.6	13.5	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
21	500 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
22	250 mL	PLASTIC	AB	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
23	60 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: Courte	DATE SHIPPED: 10-30-25	AIRBILL NUMBER:
COC NUMBER:	SIGNATURE: [Signature]	DATE SIGNED: 11/1/25



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AY EW DATE: 10-29-25	BY: FW DATE: 11/11/25

SAMPLE ID: MW-1604	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1030	DATE: 10-29-25	SAMPLE	TIME: 1055	DATE: 10-29-25
PURGE METHOD: <input checked="" type="checkbox"/> BAILER	<input type="checkbox"/> PUMP PERISTALTIC PUMP		PH: 8.09	SU	CONDUCTIVITY: 6413 umhos/cm
			ORP: -112.6 mV	DO: 1.01	mg/L
DEPTH TO WATER: 19.29	T/ PVC		TURBIDITY: 1.74	NTU	
DEPTH TO BOTTOM: —	T/ PVC		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: —	<input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: 11.2	°C	OTHER: —
VOLUME REMOVED: 5	<input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		COLOR: clear		ODOR: none
COLOR: clear		ODOR: none	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY			FILTRATE COLOR: —		FILTRATE ODOR: —
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1030	300	7.56	6410	24.7	7.14	3.00	11.6	19.29	INITIAL
1035	200	7.13	6492	33.8	8.26	4.70	11.3		1
1040		7.38	6554	26.6	4.24	4.81	11.2		2
1045		7.83	6621	-13.4	1.72	5.43	11.1		3
1050		8.06	6451	-86.4	1.12	2.51	11.2		4
1055		8.09	6413	-112.6	1.01	1.74	11.2		5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- 10 % ORP: +/- D.O.: +/- TURB: +/- 10 % or <= 10 TEMP.: +/- 0.5°C

A7

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500 mL	PLASTIC	BA	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
2	250 mL	PLASTIC	AB	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	60 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>courier</u>	DATE SHIPPED: <u>10-30-25</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>11-11-25</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AY EW DATE: 10/29/25	BY: EW DATE: 11/11/25

SAMPLE ID: MW-16-05	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1242	DATE: 10/29/25	SAMPLE	TIME: 1442	DATE: 10/29/25
PURGE METHOD: <input type="checkbox"/> PUMP PERISTALTIC PUMP <input checked="" type="checkbox"/> BAILER			PH: 8.02 SU CONDUCTIVITY: 1379 umhos/cm		
DEPTH TO WATER: 27.31 T/ PVC			ORP: -137.8 mV DO: 0.37 mg/L		
DEPTH TO BOTTOM: T/ PVC			TURBIDITY: 1.38 NTU		
WELL VOLUME: LITERS GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: 36 LITERS GALLONS			TEMPERATURE: 11.0 °C OTHER:		
COLOR: <u>slight</u> ODOR: <u>slight</u>			COLOR: <u>clear</u> ODOR: <u>slight</u>		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: FILTRATE ODOR: -		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1242	200	7.39	1477	16.6	1.42	2.53	11.7	27.31	INITIAL
1247		7.37	1496	-36.9	1.02	3.43	11.6		1
1252		7.40	1501	-45.3	0.83	1.74	11.6		2
1257		7.45	1476	-55.8	0.67	1.71	11.5		3
1302		7.49	1460	-63.9	0.53	1.60	11.5		4
1307		7.52	1446	-69.1	0.57	1.60	11.6		5
1302	300	7.54	1373	-80.9	0.36	5.00	11.2		6.5
1317		7.60	1351	-82.2	0.34	1.50	11.2		8
1322		7.66	1297	-86.0	0.33	2.05	11.1		9.5
1327		7.72	1267	-91.4	0.31	1.96	11.2		11

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VGA	E	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	60 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>carrier</u>	DATE SHIPPED: <u>10-30-25</u>	AIRBILL NUMBER:
COC NUMBER:	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>11/11/25</u>



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AY EW DATE: 10-29-25	BY: EW DATE: 11/11/25

SAMPLE ID: MW-16-05

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1332	300	7.77	1361	-97.7	0.30	1.96	11.2	27.31	12.5
1337		7.82	1296	-103.6	0.29	2.03	11.2		14
1342		7.85	1247	-107.2	0.33	1.64	11.2		15.5
1347		7.87	1173	-110.1	0.39	1.79	11.1		17
1352		7.88	1132	-113.2	0.39	1.95	11.1		18.5
1357	350	7.90	1040	-115.5	0.40	1.52	11.2		20.25
1402		7.92	1221	-117.6	0.38	1.90	11.1		22
1407		7.96	1146	-123.2	0.32	1.64	11.1		23.75
1412		7.98	1074	-126.9	0.31	1.63	11.2		25.5
1417		7.99	1088	-129.8	0.33	2.14	11.0		27.25
1422		8.00	1066	-132.2	0.32	2.16	10.9		29
1427		8.00	989	-134.0	0.29	1.76	11.0		30.75
1432		8.01	1409	-134.8	0.30	1.78	11.0		32.5
1437		8.02	1555	-136.9	0.40	1.62	11.0		34.25
1442		8.02	1379	-137.8	0.37	1.38	11.0		36

SIGNATURE: Myraasin

DATE SIGNED: 10-31-25



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AY EW DATE: 10-28-25	BY: EW DATE: 11/11/25

SAMPLE ID: <u>MW-16-06</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1152</u>	DATE: <u>10-28-25</u>	SAMPLE	TIME: <u>1305</u>	DATE: <u>10-28-25</u>
PURGE METHOD: <input type="checkbox"/> PUMP PERISTALTIC PUMP			PH: <u>7.58</u> SU	CONDUCTIVITY: <u>1464</u> umhos/cm	
<input checked="" type="checkbox"/> BAILER			ORP: <u>-73.2</u> mV	DO: <u>0.47</u> mg/L	
DEPTH TO WATER: <u>23.80</u> T/ PVC			TURBIDITY: <u>2.24</u> NTU		
DEPTH TO BOTTOM: <u>5</u> T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>—</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: <u>11.6</u> °C	OTHER: <u>—</u>	
VOLUME REMOVED: <u>21</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: <u>clear</u>	ODOR: <u>slight</u>	
COLOR: <u>clear</u>	ODOR: <u>slight</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY			FILTRATE COLOR: <u>—</u>	FILTRATE ODOR: <u>—</u>	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1152	300	6.28	2034	113.6	4.72	4.59	12.4	23.80	INITIAL
1158		7.12	1612	24.2	0.94	5.98	11.4		1.5
1203		7.25	1610	6.2	0.94	2.43	11.4		3
1208		7.37	1611	-36.9	0.79	3.93	11.5		4.5
1213		7.44	1548	-59.6	0.74	3.33	11.5		6
1223		7.06	1620	21.7	1.60	4.65	11.8		7.5
1228		7.24	1582	-25.3	0.73	2.77	11.2		9
1233		7.39	1558	-57.2	0.94	1.83	11.3		10.5
1238		7.43	1543	-64.4	0.88	2.42	11.5		12
1243		7.46	1533	-70.3	0.84	8.26	11.6		13.5

recalibrated pH →

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500mL	PLASTIC	BA	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
2	250 mL	PLASTIC	AB	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	60mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

AY

SHIPPING METHOD: <u>Carrier</u>	DATE SHIPPED: <u>10-30-25</u>	AIRBILL NUMBER: <u>—</u>
COC NUMBER: <u>—</u>	SIGNATURE: <u>AY</u>	DATE SIGNED: <u>11-11-25</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 620061.0000.0000	BY: AY EW DATE: 10-29-25	BY: EW DATE: 11/1/25

SAMPLE ID: MW-16-07	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1535	DATE: 10-29-25	SAMPLE	TIME: 1605	DATE: 10-29-25
PURGE METHOD: <input type="checkbox"/> PUMP PERISTALTIC PUMP <input checked="" type="checkbox"/> BAILER			PH: 7.71 SU CONDUCTIVITY: 887 umhos/cm		
DEPTH TO WATER: 16.42 T/ PVC			ORP: -132.5 mV DO: 0.37 mg/L		
DEPTH TO BOTTOM: — T/ PVC			TURBIDITY: 55.6 NTU		
WELL VOLUME: — LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: 6 LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: 11.4 °C OTHER: —		
COLOR: clear ODOR: moderate			COLOR: tanish ODOR: moderate		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: — FILTRATE ODOR: —		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- —		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1535	200	7.36	930	-4.1	2.80	11.27	13.9	16.42	INITIAL
1540		7.48	891	-15.2	2.35	25.1	12.1		1
1545		7.23	883	-28.6	0.97	71.1	11.8		2
1550		7.57	886	-79.3	0.48	80.0	11.7		3
1555		7.65	887	-107.0	0.47	60.8	11.5		4
1600		7.69	888	-123.0	0.35	61.2	11.5		5
1605		7.71	887	-132.5	0.37	55.6	11.4		6

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
3	150ml	VOA	E	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	500ml	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	250 ml	PLASTIC	A	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml	Plastic	A (X)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	60ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

AY

SHIPPING METHOD: Courier	DATE SHIPPED: 10-30-25	AIRBILL NUMBER: —
COC NUMBER: —	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 11-1-25

Appendix D

Data Quality Reviews

**Laboratory Data Quality Review
Groundwater Monitoring Event April 2025
DTE Electric Company Range Road Landfill (DTE RRLF)**

Groundwater samples were collected by TRC for the April 2025 sampling event. Samples were analyzed for anions, total metals, and total dissolved solids by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-221991-1.

During the April 2025 sampling event, a groundwater sample was collected from each of the following wells:

- MW-16-01
- MW-16-02
- MW-16-03
- MW-16-04
- MW-16-05
- MW-16-06
- MW-16-07

Each sample was analyzed for the following constituents:

Analyte Group	Method
Anions (Chloride, Fluoride, Sulfate)	SW846 9056A
Total Boron	SW846 3005A/6010D
Total Calcium	SW846 3005A/6020B
Total Dissolved Solids (TDS)	SM 2540C-2020

TRC reviewed the laboratory data to assess data usability. The following sections summarize the data review procedure and the results of the review.

Data Quality Review Procedure

The analytical data were reviewed using the USEPA National Functional Guidelines for Inorganic Superfund Data Review (USEPA, 2020). The following items were included in the evaluation of the data:

- Chain-of-custody (COC) and data completeness;
- Sample receipt, as noted in the cover page or case narrative;
- Technical holding times for analyses;
- Reporting limits (RLs) compared to project-required RLs;
- Data for method blanks and equipment blanks. Method blanks are used to assess potential contamination arising from laboratory sample preparation and/or analytical procedures. Equipment blanks are used to assess potential contamination arising from field procedures;
- Data for laboratory control samples (LCSs). The LCSs are used to assess the accuracy of the analytical method using a clean matrix;
- Data for matrix spike and matrix spike duplicate samples (MS/MSDs), where applicable. The MS/MSDs are used to assess the accuracy and precision of the analytical method using a sample from the dataset;

- Data for laboratory duplicates, where applicable. The laboratory duplicates are used to assess the precision of the analytical method using a sample from the dataset;
- Data for blind field duplicates. Field duplicate samples are used to assess variability introduced by the sampling and analytical processes; and
- Overall usability of the data.

This data usability report addresses the following items:

- Usability of the data if quality control (QC) results suggest potential problems with all or some of the data;
- Actions regarding specific QC criteria exceedances.

Review Summary

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable for their intended purpose. A summary of the data quality review, including non-conformances and issues identified in this evaluation are noted below.

- Appendix III constituents will be utilized for the purposes of a statistical monitoring program.
- Data are usable for the purposes of the monitoring program.

QA/QC Sample Summary

- Sample reports were checked to verify that the results corresponded to analytical requests as designated on the COC.
- The cooler temperatures were between 0-6°C and samples were preserved with acid, as applicable.
- All preparation and analysis holding time requirements were met.
- There was one equipment blank (EB-01) submitted with this dataset. Calcium (47,000 µg/L), TDS (240 mg/L), chloride (3.1 mg/L), fluoride (0.19 mg/L), and sulfate (17 mg/L) were detected in the equipment blank at the listed concentrations. Positive results for these analytes that were <10x the equipment blank concentrations in the groundwater samples in this data set, when adjusted for sample-specific preparation and/or dilution factors, may be biased high due to equipment blank contamination as summarized in the attached table, Attachment A.
- Target analytes were not detected in the method blanks.
- LCS recoveries for all target analytes were within laboratory QC limits.
- MS/MSD analyses was performed on sample EB-01 for anions. All criteria were met.
- Laboratory duplicate analysis was not performed on a sample in this data set.
- Samples MW-16-01 and DUP-01 were submitted as the field duplicate pair with this data set; all criteria were met with the following exception.
 - Sulfate was detected >5x the RL in sample DUP-01 and was nondetect in sample MW-16-01; the absolute difference was greater than the RL. Therefore, the positive and nondetect results for sulfate should be considered estimated in all groundwater samples in this data set, as summarized in the attached table, Attachment A.

- RLs were compared to the CCR Groundwater Monitoring and QAPP, DTE Electric Company Range Road Landfill, July 2016; Revised March and August 2017. The following discrepancies were noted:
 - The nondetect RL for sulfate (5 mg/L) was greater than the QAPP-specified RL (1 mg/L) in sample MW-16-04 due to a 5-fold dilution likely performed due to an elevated concentration of chloride.
- The following dilutions were performed on the samples in this data set; RLs were elevated accordingly by the laboratory:
 - Samples MW-16-06 and DUP-01 were diluted 10-fold for chloride and sulfate;
 - Samples MW-16-03 and MW-16-07 were diluted 5-fold for chloride;
 - Sample MW-16-04 was diluted 25-fold for chloride, and 5-fold for fluoride and sulfate; and
 - Samples MW-16-01, MW-16-02, and MW-16-05 were diluted 10-fold for chloride.

The dilutions were likely performed due to exceeding the calibration range in undiluted analysis and/or due to the elevated concentration of interfering analytes. With the exception of sulfate in sample MW-16-04 (which was nondetect for sulfate resulting in an elevated RL as noted above), the listed analytes were detected in the diluted samples and there is no adverse impact on data usability.

- The RLs met the project requirements and were deemed suitable for data usability.

Attachment A

Summary of Data Non-Conformances for Groundwater Analytical Data
DTE Electric Company Range Road Landfill
China Township, Michigan

Samples	Collection Date	Analyte	Non-Conformance/Issue
MW-16-01	4/8/2025	Sulfate	Field duplicate variability (one result nondetect and one result >5x the reporting limit [RL]; absolute difference greater than RL); potential uncertainty exists for the listed results.
MW-16-02	4/8/2025		
MW-16-03	4/7/2025		
MW-16-04	4/8/2025		
MW-16-05	4/8/2025		
MW-16-06	4/7/2025		
MW-16-07	4/8/2025		
DUP-01	4/8/2025	Calcium, TDS	Equipment blank contamination; potential high bias exists for the listed results due to detection <10x the blank concentration.
MW-16-01	4/8/2025		
MW-16-02	4/8/2025		
MW-16-03	4/7/2025		
MW-16-04	4/8/2025		
MW-16-05	4/8/2025		
MW-16-06	4/7/2025		
MW-16-07	4/8/2025		
DUP-01	4/8/2025		
MW-16-01	4/8/2025	Fluoride	
MW-16-04	4/8/2025		
MW-16-05	4/8/2025		
MW-16-06	4/7/2025		
MW-16-07	4/8/2025		
DUP-01	4/8/2025		
MW-16-05	4/8/2025	Sulfate	
MW-16-06	4/7/2025		
DUP-01	4/8/2025		
MW-16-07	4/8/2025		

**Laboratory Data Quality Review
Groundwater Monitoring Event October 2025
DTE Electric Company Range Road Landfill (DTE RRLF)**

Groundwater samples were collected by TRC for the October 2025 sampling event. Samples were analyzed for anions, total metals, and total dissolved solids by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-236592-1.

During the October 2025 sampling event, a groundwater sample was collected from each of the following wells:

- MW-16-01
- MW-16-02
- MW-16-03
- MW-16-04
- MW-16-05
- MW-16-06
- MW-16-07

Each sample was analyzed for the following constituents:

Analyte Group	Method
Anions (Chloride, Fluoride, Sulfate)	SW846 9056A
Total Boron	SW846 3005A/6010D
Total Calcium	SW846 3005A/6020B
Total Dissolved Solids (TDS)	SM 2540C-2020

TRC reviewed the laboratory data to assess data usability. The following sections summarize the data review procedure and the results of the review.

Data Quality Review Procedure

The analytical data were reviewed using the USEPA National Functional Guidelines for Inorganic Superfund Data Review (USEPA, 2020). The following items were included in the evaluation of the data:

- Chain-of-custody (COC) and data completeness;
- Sample receipt, as noted in the cover page or case narrative;
- Technical holding times for analyses;
- Reporting limits (RLs) compared to project-required RLs;
- Data for method blanks and equipment blanks. Method blanks are used to assess potential contamination arising from laboratory sample preparation and/or analytical procedures. Equipment blanks are used to assess potential contamination arising from field procedures;
- Data for laboratory control samples (LCSs). The LCSs are used to assess the accuracy of the analytical method using a clean matrix;
- Data for matrix spike and matrix spike duplicate samples (MS/MSDs), where applicable. The MS/MSDs are used to assess the accuracy and precision of the analytical method using a sample from the dataset;

- Data for laboratory duplicates, where applicable. The laboratory duplicates are used to assess the precision of the analytical method using a sample from the dataset;
- Data for blind field duplicates. Field duplicate samples are used to assess variability introduced by the sampling and analytical processes; and
- Overall usability of the data.

This data usability report addresses the following items:

- Usability of the data if quality control (QC) results suggest potential problems with all or some of the data;
- Actions regarding specific QC criteria exceedances.

Review Summary

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable for their intended purpose. A summary of the data quality review, including non-conformances and issues identified in this evaluation are noted below.

- Appendix III constituents will be utilized for the purposes of a detection monitoring program.
- Data are usable for the purposes of the detection monitoring program.

QA/QC Sample Summary

- Sample reports were checked to verify that the results corresponded to analytical requests as designated on the COC. The following issue was noted:
 - The lab reported boron using SW846 method 6010D rather than 6010B as listed in the Quality Assurance Project Plan (QAPP) (and as requested on the COC). There was no adverse impact on the data usability due to this issue.
- The cooler temperatures were between 0-6°C and samples were preserved with acid, as applicable.
- All preparation and analysis holding time requirements were met.
- There was one equipment blank (EB-01) submitted with this dataset. Target analytes were not detected in this blank sample.
- Target analytes were not detected in the method blanks.
- LCS recoveries for all target analytes were within laboratory QC limits.
- MS/MSD analyses was performed on sample MW-16-01 for boron, sample MW-16-02 for calcium and sample MW-16-05 for anions. All criteria were met.
- A laboratory duplicate analysis was not performed on a sample in this data set.
- Samples MW-16-03 and DUP-01 were submitted as the field duplicate pair with this data set; all criteria were met.
- RLs were compared to Table 3, Groundwater, Surface Water and Leachate Quality Parameters, Schedule, Methods, and Detection Limits, Hydrogeologic Monitoring Plan, Range Road Landfill, China Township, Michigan, April 2020. The following discrepancies were noted:

- The RL for sulfate (5 mg/L) was greater than the project-specified RL (1 mg/L) in sample MW-16-04 due to a 5-fold dilution likely performed due to the elevated concentration of chloride.
- The following dilutions were performed on the samples in this data set; RLs were elevated accordingly by the laboratory:
 - Samples DUP-01, MW-16-02, MW-16-03, MW-16-05, and MW-16-06 were diluted 10-fold for chloride;
 - Sample MW-16-01 was diluted 10-fold for chloride and sulfate;
 - Sample MW-16-04 was diluted 50-fold for chloride, and 5-fold for fluoride and sulfate; and
 - Sample MW-16-07 was diluted 5-fold for chloride.
 - These dilutions were likely performed due to concentrations of target analytes that exceeded the calibration range in the undiluted analysis and/or due to elevated concentrations of interfering analytes. With the exception of sulfate in sample MW-16-04 (which was nondetect for sulfate resulting in an elevated RL as noted above), the listed analytes were detected in the diluted samples and thus, there is no adverse impact on data usability.
 - The RLs met the project requirements and were deemed suitable for data usability.