2025 Annual Groundwater Monitoring Report

Monroe Power Plant Bottom Ash Impoundment
Inactive Coal Combustion Residual Unit

3500 East Front Street
Monroe, Michigan

July 2025

Prepared For:

DTE Electric Company

Prepared By:

TRC
1540 Eisenhower Pl.
Ann Arbor, MI 48108

Vincent E. Buening, C.P.G.
Senior Project Manager

David B. McKenzie, P.E.
Senior Project Engineer

Sarah B. Holmstrom, P.G.
Senior Hydrogeologist

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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). The CCR Rule, as amended, applies to the DTE Electric Company (DTE Electric) Monroe Power Plant (MONPP) Bottom Ash Impoundment (BAI) Inactive CCR unit. On August 5, 2016, the USEPA published the CCR Rule companion *Extension of Compliance Deadlines for Certain Inactive Surface Impoundments*, which established the compliance deadlines for certain inactive CCR surface impoundments. Pursuant to the CCR Rule, no later than August 1, 2019, and annually thereafter, the owner or operator of an inactive 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).

DTE Electric remained in detection monitoring at the MONPP BAI CCR Unit in the 2025 monitoring period. The semiannual detection monitoring events for 2025 were completed in October 2024 and April 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 detection monitoring parameters to determine if concentrations in groundwater exceed background levels. Detection monitoring data that has been collected and evaluated in the 2025 reporting period are presented in this report.

A SSI for boron was detected at MW-2S during the October 2024 monitoring event. The concentration was evaluated and determined to be from natural variation in groundwater quality at the location as detailed in the Alternate Source Demonstration (ASD) prepared to assess the SSI for the well-constituent pair. There were no SSIs detected during the April 2025 monitoring event.

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). The CCR Rule, as amended, applies to the DTE Electric Company (DTE Electric) Monroe Power Plant (MONPP) Bottom Ash Impoundment (BAI) Inactive CCR unit. On August 5, 2016, the USEPA published the CCR Rule companion *Extension of Compliance Deadlines for Certain Inactive Surface Impoundments*, which established the compliance deadlines for certain inactive CCR surface impoundments. Pursuant to the CCR Rule, no later than August 1, 2019, and annually thereafter, the owner or operator of an inactive 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).

There was no statistically significant increases (SSIs) associated with the MONPP BAI CCR unit occurred in the 2024 reporting period (July 2023 to June 2024); therefore, DTE Electric continued detection monitoring during the 2025 reporting period pursuant to §257.94 of the CCR Rule.

TRC prepared this 2025 Annual Groundwater Monitoring Report (2025 Annual Report) for the MONPP BAI CCR unit on behalf of DTE Electric for the reporting period that extends from July 1, 2024 through June 30, 2025 and presents the monitoring results and the statistical evaluation of the detection monitoring parameters for the October 2024 and April 2025 semiannual groundwater monitoring events for the MONPP BAI Inactive CCR unit.

Detection monitoring for these events continued to be performed in accordance with the *Groundwater Monitoring Work Plan Coal Combustion Residuals (CCR) Rule - Inactive Bottom Ash Basin DTE Monroe Power Plant* (Work Plan) (AECOM, September 2017) and the *Groundwater Monitoring and Quality Assurance Project Plan, DTE Electric Company Monroe Power Plant Bottom Ash Impoundment, 3500 East Front Street, Monroe, Michigan* (QAPP) (TRC, June 2020a). Results are statistically evaluated per the *Revised Groundwater Statistical Evaluation Plan, Inactive Bottom Ash Impoundment, DTE Monroe Plant, Monroe, Michigan* (Stats Plan) (AECOM, April 2019, revised April 2020). 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.

1.2 Site Overview

The MONPP is located in Section 16, Township 7 South, Range 9 East, at 7955 East Dunbar Road, Monroe in Monroe County, Michigan (Figure 1). The MONPP BAI Inactive CCR unit was operated from the mid-1970s through 2015 and is located within the southern portion of the MONPP parcel at latitude 41° 52' 30" North and longitude 83° 20' 70" West. The MONPP BAI Inactive CCR unit is bounded by the MONPP facility to the north and northeast, Lake Erie to the southeast and south, and Plum Creek / the discharge canal to the west (Figure 2). The

implementation of the BAI closure by CCR removal is substantially complete.

1.3 Geology/Hydrogeology

As presented in the Stats Plan, the bedrock in the site vicinity is overlain by approximately 40 to 50 feet of unconsolidated deposits of glacial origin. The deposits are comprised of two (2) distinct units: a hard glacial till immediately overlying bedrock and lacustrine (lakebed or lake shore) deposits which overlay the till unit. The till is comprised of highly compacted gray silty to sandy clay with some cobbles and boulders, and ranges from approximately 20 to 50 feet in thickness. The overlying lacustrine deposits are composed of 10 to 30 feet of fine-grained sand and silt with some soft clay except where there is a thin, discontinuous coarse sand unit at the base of the lacustrine sequence.

Under parts of the MONPP property this sand unit ranges in thickness from 5 to 20 feet and yields groundwater. The sand unit thins progressively to the west, having a thickness of approximately 12 feet on the east side of the discharge canal and thinning to less than a few feet within 150 feet to the west of the discharge canal. Farther to the west the sand unit is not present as shown by soil borings for monitoring wells drilled in 2016 around the Fly Ash Basin. This is consistent with the expectation that lake-deposited materials will decrease in thickness with distance away from Lake Erie. Accordingly, it appears that this sand unit is a localized lakeshore beach deposit formed by westward aggradation with rising lake level and subsequently blanketed by finer lacustrine deposits. Groundwater in the sand unit is under semi-confined conditions.

A detailed summary of the site hydrogeology is presented in the *Monitoring Well Installation Report Coal Combustion Residuals (CCR) Rule – Inactive Bottom Ash Basin DTE Monroe* (Well Installation Report) (AECOM, April 2019, Revision 1 August 2019).

2.0 Groundwater Monitoring

2.1 Monitoring Well Network

A groundwater monitoring system has been established for the MONPP BAI Inactive CCR unit as detailed in the Well Installation Report. The detection monitoring well network for the MONPP BAI Inactive CCR unit currently consists of eleven monitoring wells that are screened in the uppermost aquifer. The monitoring system is comprised of monitoring wells MW-1S through MW-3S, MW-7S, and MW-9 through MW-15 located around the perimeter of the MONPP BAI. The monitoring well locations are shown on Figure 2.

As discussed in the Stats Plan, the groundwater monitoring system wells do not serve as simple upgradient or downgradient monitoring points because of two main factors:

- The sand unit located at the bottom of the lacustrine deposits is limited in extent. The unit is present in the inactive Bottom Ash Impoundment area and extends a limited distance north into the main Monroe Plant area. As noted above, the sand unit extends westward but also thins out and is not present in monitoring wells located greater than 500 feet west of the CCR unit. Therefore, there is no representative upgradient or background monitoring position available for the unit; and
- There is a strong confined hydraulic pressure in the sand unit aquifer. The overlying finer grained lacustrine deposits are relatively dry but water levels in the monitoring wells installed in the sand unit rise to within 2.5 to 12.0 feet below ground surface (bgs), likely driven by hydraulic pressure from the underlying bedrock aquifer system.

As such, an intrawell statistical approach was selected. An intrawell statistical approach requires that each of the downgradient wells doubles as the 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, for a total of eleven background/downgradient monitoring wells. Additional discussion related to the selection of an intrawell statistical approach is presented in the Stats Plan.

2.2 Semiannual Groundwater Monitoring

The semiannual monitoring parameters for the detection groundwater 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 Work Plan. In addition to pH, the collected field parameters included oxidation reduction potential, dissolved oxygen, specific conductivity, temperature, and turbidity.

2.2.1 Data Summary

The first semiannual groundwater detection monitoring event for the 2025 monitoring period was performed from October 21 to 22, 2024, by TRC personnel and samples were analyzed by Eurofins Laboratories, Inc. (Eurofins) in accordance with the Work Plan. Static water elevation data were collected at all eleven monitoring well locations. Groundwater samples were collected

from the eleven detection monitoring wells for the Appendix III indicator parameters and field parameters. A summary of the groundwater data collected during the October 2024 event is provided on Table 1 (static groundwater elevation data), Table 2 (field data), and Table 3 (analytical data).

The second semiannual groundwater detection monitoring event was performed April 29, 2025, by TRC personnel and samples were analyzed by Eurofins in accordance with the Work Plan. Static water elevation data were collected at all eleven monitoring well locations. Groundwater samples were collected from the eleven 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 4 (analytical data). The laboratory analytical reports are included in Appendix B.

2.2.2 Data Quality Review

Data from the October 2024 and April 2025 detection monitoring events and associated verification resampling 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. Data quality reviews are presented in Appendix C.

2.2.3 Groundwater Flow Rate and Direction

Groundwater elevation data collected during the October 2024 and April 2025 sampling events continue to show that groundwater within the uppermost aquifer generally flows toward Lake Erie to the southeast, south and to the plant's discharge channel to the southwest. Groundwater potentiometric surface elevations measured across the site during the October 2024 and April 2025 sampling events are provided on Table 1 and were used to construct groundwater potentiometric surface maps shown on Figure 3 and Figure 4, respectively.

The groundwater flow rate and direction is consistent with previous monitoring events. The average hydraulic gradient throughout the site during the October 2024 event is estimated at 0.002 ft/ft using the inferred 573 and 574 foot contour lines and groundwater elevations measured at MW-7s, MW-11, and MW-14, resulting in an estimated average seepage velocity of approximately 1.1 ft/day or 400 ft/year. The average hydraulic gradient throughout the site during the April 2025 event is estimated at 0.004 ft/ft using the 573 and 574 foot contour lines and groundwater level elevations measured at MW-7s, MW-11, and MW-14, resulting in an estimated average seepage velocity of approximately 1.1 ft/day or 400 ft/year. Both events used the hydraulic conductivity of 164 ft/day averaged from the hydraulic conductivity values calculated for MW-1S, MW-3S, and MW-7S during aquifer testing and the assumed effective porosity of 0.3 described in the Well Installation Report.

The general flow direction is similar to that identified in previous monitoring rounds and continues to demonstrate that the downgradient wells are appropriately positioned to detect the presence of Appendix III parameters that could potentially migrate from the MONPP BAI Inactive CCR unit.

3.0 Statistical Evaluation

3.1 Establishing Background Limits

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 eleven established detection monitoring wells (MW-1S through MW-3S, MW-7S, and MW-9 through MW-15). The statistical evaluation of the background data is presented in the 2019 Annual Report (TRC, July 2019). 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 MONPP BAI Inactive CCR unit by comparing concentrations in the detection monitoring wells to their respective background limits for each Appendix III indicator parameter.

3.2 Data Comparison to Background Limits – First Semiannual Event (October 2024)

The concentrations of the indicator parameters in each of the detection monitoring wells (MW-1S through MW-3S, MW-7S, and MW-9 through MW-15) were compared to their respective statistical background limits calculated from the background data collected from each individual well (i.e., monitoring data from MW-1S is compared to the background limit developed using the background dataset from MW-1S, and so forth). The comparisons are presented on Table 3.

The statistical evaluation of the October 2024 Appendix III indicator parameters shows potential SSIs over background for:

- Boron at MW-2S;
- Sulfate at MW-7S;
- Chloride at MW-9;
- Boron at MW-11;
- Calcium and sulfate at MW-14; and
- Fluoride and TDS at MW-15.

The exceedances observed during the First Semiannual Event in October 2024 for sulfate at MW-7S, chloride at MW-9, boron at MW-11, and sulfate at MW-14 are not attributable to the CCR unit based on previous demonstrations of natural variability for these constituents at these locations (TRC, September 2020; TRC, August 2023; TRC, March 2021; and TRC, February 2022; respectively). These ASDs continue to be applicable given the conditions in which the October 2024 exceedances for boron at MW-2S, sulfate at MW-7S, chloride at MW-9, boron at MW-11, and sulfate at MW-14 occurred, and the basis of attributing these concentrations to natural variability of local and regional groundwater quality are consistent with the previous demonstrations.

The initial observation of a constituent concentration above the established background limits does not constitute a SSI. Per the Stats Plan, if there is an initial exceedance of a prediction

limit for one or more of the constituents that have not been attributed to an alternate source, the well(s) of concern can be resampled within 30 days of the completion of the initial statistical analysis for verification purposes. Therefore, verification resampling was performed at MW-2S for boron, MW-14 for calcium, and at MW-15 for fluoride and TDS as described in Section 3.3. There were no potential SSIs compared to background for pH.

3.3 Verification Resampling – First Semiannual Event (December 2024)

Verification resampling is recommended per the Stats Plan and the *USEPA's Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (Unified Guidance, USEPA, 2009) to achieve performance standards as specified by §257.93(g) in the CCR Rule. Per the Stats Plan, if there is an exceedance of a prediction limit for one or more of the parameters, the well(s) of concern will be resampled within 30 days of the completion of the initial statistical analysis. Only constituents that initially exceed their statistical limit (i.e., have no previously recorded SSIs) will be analyzed for verification purposes. As such, verification resampling was conducted on December 5, 2024, by TRC personnel for boron at MW-2S, calcium at MW-14, and fluoride and TDS at MW-15. A summary of the groundwater data collected during the verification resampling events is provided on Table 3. The associated data quality review is included in Appendix C.

The December 2024 verification sampling confirmed the SSI for boron at monitoring well MW-2S and did not confirm the potential SSIs for calcium at MW-14 or fluoride and TDS at MW-15. Per §257.94(e), DTE Electric evaluated potential alternate sources for the boron SSI at MW-2S. The boron exceedance at MW-2S has been attributed to natural variability in groundwater quality based on the demonstration that was submitted to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) on February 28, 2025 and included in this report as Appendix A.

3.4 Data Comparison to Background Limits – Second Semiannual Event (April 2025)

The data comparisons for the April 2025 groundwater monitoring event are presented on Table 4. Based on the statistical evaluation of the April 2025 Appendix III indicator parameters potential SSIs were identified for the following:

- Boron at MW-2S;
- Calcium and Sulfate at MW-7S;
- Chloride and TDS at MW-9;
- Boron and calcium at MW-10;
- Boron at MW-11; and
- Sulfate at MW-14.

The exceedances observed during the Second Semiannual Event in April 2025 for sulfate at MW-7S, chloride at MW-9, boron at MW-10 and MW-11, and sulfate at MW-14 are not attributable to the CCR unit based on the previous demonstrations of natural variability for these

constituents at these locations (TRC, September 2020; TRC, August 2023; TRC, March 2021; and TRC, February 2022; respectively). In addition, the boron exceedance at MW-2S is attributed to natural variability in groundwater quality based on the February 2025 demonstration (Appendix A). These ASDs continue to be applicable given the conditions in which the April 2025 exceedances occurred, and the basis of attributing these concentrations to natural variability of local and regional groundwater quality are consistent with the previous demonstrations.

The initial observation of a constituent concentration above the established background limits does not constitute a SSI. Per the Stats Plan, if there is an initial exceedance of a prediction limit for one or more of the constituents that have not been attributed to an alternate source, the well(s) of concern can be resampled within 30 days of the completion of the initial statistical analysis for verification purposes. Therefore, verification resampling was performed at MW-7S for calcium, MW-9 for TDS, and MW-10 for calcium, as described in Section 3.5. There were no potential SSIs compared to background for fluoride and pH.

3.5 Verification Resampling – Second Semiannual Event (May 2025)

Verification resampling is recommended per the Stats Plan and the *USEPA's Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (Unified Guidance, USEPA, 2009) to achieve performance standards as specified by §257.93(g) in the CCR Rule. Per the Stats Plan, if there is an exceedance of a prediction limit for one or more of the parameters, the well(s) of concern will be resampled within 30 days of the completion of the initial statistical analysis. Only constituents that initially exceed their statistical limit (i.e., have no previously recorded SSIs) will be analyzed for verification purposes. As such, verification resampling was conducted on May 29, 2025, by TRC personnel for calcium at MW-7S, TDS at MW-9, and calcium at MW-10. A summary of the groundwater data collected during the verification resampling events is provided on Table 4. The associated data quality review is included in Appendix C.

The May 2025 verification sampling did not confirm the April 2025 potential SSIs for calcium at MW-7S and MW-10, and TDS at MW-9.

4.0 Conclusions and Recommendations

There are no SSIs over background limits that are attributable to the MONPP BAI CCR unit for the October 2024 and April 2025 monitoring events and detection monitoring will continue.

The next semiannual detection monitoring event at the MONPP BAI is scheduled for the fourth calendar quarter of 2025.

5.0 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
Monroe Power Plant Bottom Ash Impoundment
Monroe, Michigan

CERTIFICATION

I hereby certify that the annual groundwater and corrective action report presented within this document for the MONPP BAI CCR unit has 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, 2025	 Stamp
Company: TRC Engineers Michigan, Inc.	Date: July 28, 2025	

6.0 References

AECOM. September 2017. Groundwater Monitoring Work Plan Coal Combustion Residuals (CCR) Rule – Inactive Bottom Ash Basin, DTE Monroe Plant, Monroe, Michigan. Prepared for DTE Electric Company.

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USEPA. April 2018. Barnes Johnson (Office of Resource Conservation and Recovery) to James Roewer (c/o Edison Electric Institute) and Douglas Green, Margaret Fawal (Venable LLP). Re: Coal Combustion Residuals Rule Groundwater Monitoring Requirements. April 30, 2018. United States Environmental Protection Agency, Washington, D.C. 20460. Office of Solid Waste and Emergency Response, now the Office of Land and Emergency Management.

Tables

Table 1
Groundwater Elevation Summary – October 2024 and April 2025
Monroe Power Plant BAI Inactive CCR Unit
Monroe, Michigan

Well ID	MW-1S		MW-2S		MW-3S		MW-7S		MW-9		MW-10		MW-11		MW-12		MW-13		MW-14		MW-15	
Date Installed	9/19/2016		9/19/2016		9/20/2016		9/28/2016		9/19/2017		9/20/2017		9/20/2017		9/21/2017		9/21/2017		9/22/2017		9/26/2017	
TOC Elevation	582.62		578.85		577.58		576.20		579.05		577.46		580.58		582.49		580.97		580.76		580.80	
Geologic Unit of Screened Interval	Silt and Sand		Sand and Sandy clay		Silt and Sand		Sand and Gravel		Sand and Gravel		Sand and Sandy clay		Silt		Silt and Sand		Clay, Silt, and Sand		Silt and Sand		Sandy Clay and Sand	
Screened Interval Elevation	538.80 to 548.80		538.20 to 548.20		538.10 to 548.10		542.60 to 552.60		541.37 to 551.37		540.79 to 550.79		537.84 to 547.84		537.90 to 547.90		543.25 to 553.25		537.87 to 547.87		539.61 to 549.61	
Unit	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	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	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation
10/21/2024	10.14	572.48	5.10	573.75	4.08	573.50	2.80	573.40	5.39	573.66	3.74	573.72	7.00	573.58	8.90	573.59	8.45	572.52	6.08	574.68	8.34	572.46
04/29/2025	9.12	573.50	5.71	573.14	4.39	573.19	2.45	573.75	5.00	574.05	3.45	574.01	7.48	573.10	9.34	573.15	7.97	573.00	5.78	574.98	7.68	573.12

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 – October 2024 and April 2025
Monroe Power Plant BAI Inactive CCR Unit
Monroe, Michigan

Sample Location	Sample Date	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Specific Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-1S	10/22/2024	1.09	-127.0	7.1	1,710	13.5	8.00
	4/29/2025	1.00	150.0	6.9	1,303	12.9	12.1
MW-2S	10/22/2024	0.88	-187.0	7.9	1,990	14.9	9.00
	12/5/2024(1)	0.05	-156.8	7.6	1,554	13.0	9.47
	4/29/2025	0.31	-124.5	7.6	1,932	14.4	12.7
	5/29/2025(2)	0.48	-105.1	7.3	1,646	13.9	1.50
MW-3S	10/22/2024	0.85	-174.0	7.6	1,953	16.7	195
	4/29/2025	0.68	-45.2	7.4	1,708	16.9	66.6
MW-7S	10/21/2024	1.00	-211.0	7.5	1,370	15.9	5.95
	4/29/2025	4.50	32.4	7.2	1,879	14.7	11.3
	5/29/2025(2)	0.42	-104.4	7.2	896	14.4	2.45
MW-9	10/21/2024	0.75	-234.0	7.0	1,378	15.7	9.00
	4/29/2025	0.44	-95.6	6.9	1,207	14.8	11.6
	5/29/2025(2)	0.24	-67.3	6.8	1,140	14.4	4.46
MW-10	10/21/2024	0.65	-282.0	7.4	1,402	15.8	4.99
	4/29/2025	0.64	-258.1	7.0	1,246	15.0	9.29
	5/29/2025(2)	0.39	-134.9	7.0	1,152	14.8	3.32

Notes:
mg/L -Milligrams per Liter.
mV - Millivolts.
SU - Standard Units.
umhos/cm - Micromhos per centimeter.
°C - Degrees Celsius.
NTU - Nephelometric Turbidity Unit
(1) Results shown for verification sampling performed on 12/5/2024.
(2) Results shown for verification sampling performed on 5/29/2025.

Table 2
Summary of Groundwater Field Parameters – October 2024 and April 2025
Monroe Power Plant BAI Inactive CCR Unit
Monroe, Michigan

Sample Location	Sample Date	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Specific Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-11	10/21/2024	0.92	-232.0	7.4	2,194	15.30	10.0
	4/29/2025	0.55	-35.1	7.4	1,928	15.10	7.32
MW-12	10/22/2024	0.98	-159.0	7.7	1,869	14.20	10.0
	4/29/2025	0.71	-40.8	7.5	1,631	14.80	1.11
MW-13	10/22/2024	0.80	-164.0	7.2	874	14.40	8.00
	4/29/2025	0.17	-74.4	6.9	843	13.80	5.02
MW-14	10/21/2024	0.73	-193.0	7.2	2,467	13.00	5.80
	12/5/2024(1)	0.20	-140.6	7.1	1,874	12.10	7.27
	4/29/2025	0.05	-75.9	7.1	2,003	13.00	0.85
MW-15	10/21/2024	0.78	-228.0	7.4	1,111	16.20	5.00
	12/5/2024(1)	0.02	-175.0	7.3	908	14.00	7.59
	4/29/2025	0.16	-118.1	7.2	1,066	15.40	2.54

Notes:
mg/L -Milligrams per Liter.
mV - Millivolts.
SU - Standard Units.
umhos/cm - Micromhos per centimeter.
°C - Degrees Celsius.
NTU - Nephelometric Turbidity Unit
(1) Results shown for verification sampling performed on 12/5/2024.
(2) Results shown for verification sampling performed on 5/29/2025.

Table 3
Comparison of Appendeix III Parameter Results to Background Limits – October 2024
Monroe Power Plant BAI Inactive CCR Unit
Monroe, Michigan

Sample Location:		MW-1S		MW-2S			MW-3S		MW-7S		MW-9	
Sample Date:		10/22/2024	PL	10/22/2024	12/5/2024[6]	PL	10/22/2024	PL	10/21/2024	PL	10/21/2024	PL
Constituent	Unit	Data		Data			Data		Data		Data	
Appendix III												
Boron	ug/L	660	870	**1,100**	**1100**[1]	1,000	890	980	420	1,400	570	640
Calcium	ug/L	270,000	370,000	250,000	--	270,000	340,000	540,000	230,000	380,000	190,000	190,000
Chloride	mg/L	110	170	11	--	14	13	15	35	110	**74**[3]	59
Fluoride	mg/L	0.21	0.47	0.71	--	0.89	0.81	0.98	0.62	1.6	0.47	0.56
pH, Field	su	7.1	6.5 - 8.7	7.9	--	7.0 - 8.5	7.6	6.9 - 7.9	7.5	6.0 - 8.1	7.0	6.0 - 7.0
Sulfate	mg/L	130	850	1,300	--	1,600	1,200	1,400	**620**[2]	590	< 1	12
Total Dissolved Solids	mg/L	950	1,600	1,700	--	2,000	1,600	2,300	1,000	2,000	740	810

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).
RESULT Shading and bold font indicates a confirmed exceedance of the Prediction Limit (PL).
(1) - Exceedance was determined to be from an alternate source in the Second 2024 Semiannual alternative source demonstration dated 2/28/2025.
(2) - Exceedance was determined to be from an alternate source in the still applicable First 2020 Semiannual alternative source demonstration dated 9/21/2020.
(3) - Exceedance was determined to be from an alternate source in the still applicable First 2023 Semiannual alternative source demonstration dated 8/30/2023.
(4) - Exceedance was determined to be from an alternate source in the still applicable Second 2020 Semiannual alternative source demonstration dated 3/18/2021.
(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) - Results shown for verification sampling performed on 12/5/2024.

Table 3
Comparison of Appendeix III Parameter Results to Background Limits – October 2024
Monroe Power Plant BAI Inactive CCR Unit
Monroe, Michigan

Sample Location:		MW-10		MW-11		MW-12		MW-13		MW-14			MW-15		
Sample Date:		10/21/2024	PL	10/21/2024	PL	10/22/2024	PL	10/22/2024	PL	10/21/2024	12/5/2024[6]	PL	10/21/2024	12/5/2024[6]	PL
Constituent	Unit	Data		Data		Data		Data		Data			Data		
Appendix III															
Boron	ug/L	520	530	**1,000**[4]	920	1,100	1,100	< 100	100	1,500	--	1,700	2,500	--	2,800
Calcium	ug/L	170,000	170,000	270,000	330,000	190,000	210,000	130,000	140,000	**320,000**	310,000	310,000	140,000	--	150,000
Chloride	mg/L	62	80	16	18	10	13	99	120	260	--	310	110	--	150
Fluoride	mg/L	0.46	0.68	0.92	1.2	0.85	0.91	0.39	0.51	0.54	--	0.57	**0.68**	0.47	0.64
pH, Field	su	7.4	6.6 - 7.5	7.4	6.9 - 7.5	7.7	7.4 - 7.9	7.2	6.2 - 7.7	7.2	--	6.8 - 7.3	7.4	--	6.9 - 7.4
Sulfate	mg/L	11	19	1,400	1,500	1,100	1,300	< 1	1.0	**550**[5]	--	430	< 1	--	1.0
Total Dissolved Solids	mg/L	730	840	1,900	2,100	1,500	1,800	470	1,100	1,700	--	1,700	**1,100**	590	770

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).
RESULT Shading and bold font indicates a confirmed exceedance of the Prediction Limit (PL).
(1) - Exceedance was determined to be from an alternate source in the Second 2024 Semiannual alternative source demonstration dated 2/28/2025.
(2) - Exceedance was determined to be from an alternate source in the still applicable First 2020 Semiannual alternative source demonstration dated 9/21/2020.
(3) - Exceedance was determined to be from an alternate source in the still applicable First 2023 Semiannual alternative source demonstration dated 8/30/2023.
(4) - Exceedance was determined to be from an alternate source in the still applicable Second 2020 Semiannual alternative source demonstration dated 3/18/2021.
(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) - Results shown for verification sampling performed on 12/5/2024.

Table 4
Comparison of Appendix III Parameter Results to Background Limits – April 2025
Monroe Power Plant BAI Inactive CCR Unit
Monroe, Michigan

Sample Location:		MW-1S		MW-2S		MW-3S		MW-7S			MW-9		
Sample Date:		4/29/2025	PL	4/29/2025	PL	4/29/2025	PL	4/29/2025	5/29/2025(1)	PL	4/29/2025	5/29/2025(1)	PL
Constituent	Unit	Data		Data		Data		Data			Data		
Appendix III													
Boron	ug/L	500	870	**1,100(2)**	1,000	820	980	400	--	1,400	630	--	640
Calcium	ug/L	210,000	370,000	260,000	270,000	280,000	540,000	**400,000**	130,000	380,000	190,000	--	190,000
Chloride	mg/L	75	170	11	14	15	15	23	--	110	**79(4)**	--	59
Fluoride	mg/L	0.2	0.47	0.69	0.89	0.79	0.98	1.6	--	1.6	0.45	--	0.56
pH, Field	su	6.9	6.5 - 8.7	7.6	7.0 - 8.5	7.4	6.9 - 7.9	7.2	--	6.0 - 8.1	6.9	--	6.0 - 7.0
Sulfate	mg/L	110	850	1,300	1,600	1,200	1,400	**1,300(3)**	--	590	4.9	--	12
Total Dissolved Solids	mg/L	880	1,600	1,800	2,000	1,700	2,300	2,000	--	2,000	**840**	810	810

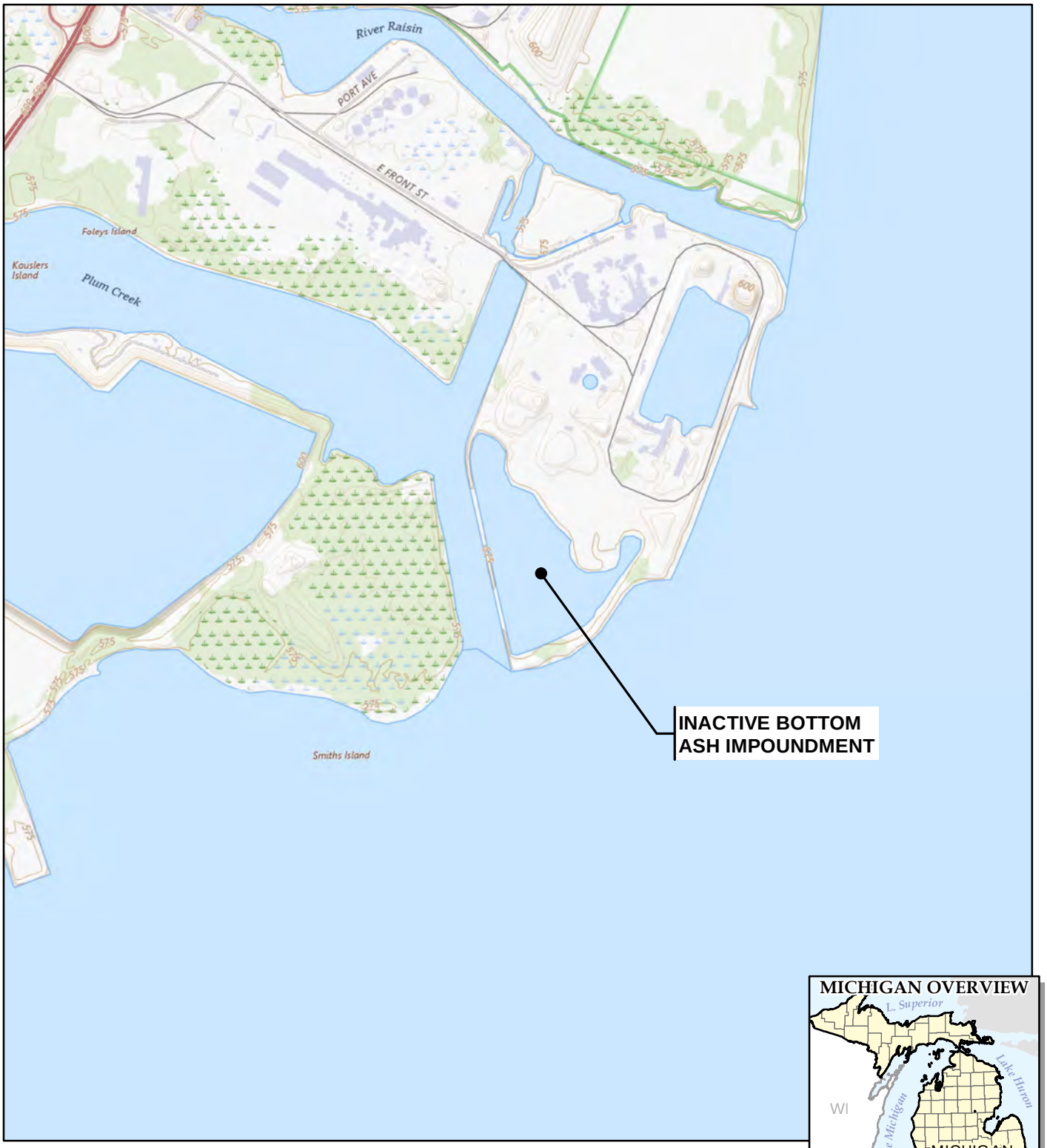
Notes:
ug/L - micrograms per liter.
mg/L - milligrams per liter.
SU - standard units; pH is a field parameter.
All metals were analyzed as total unless otherwise specified.
Bold font indicates an exceedance of the Prediction Limit (PL).
RESULT Shading and bold font indicates a confirmed exceedance of the Prediction Limit (PL).
(1) - Results shown for verification samples collected on 5/29/2025.
(2) - Exceedance was determined to be from an alternate source in the still applicable Second 2024 Semiannual alternative source demonstration dated 2/28/2025.
(3) - Exceedance was determined to be from an alternate source in the still applicable First 2020 Semiannual alternative source demonstration dated 9/21/2020.
(4) - Exceedance was determined to be from an alternate source in the still applicable First 2023 Semiannual alternative source demonstration dated 8/30/2023.
(5) - Exceedance was determined to be from an alternate source in the still applicable Second 2020 Semiannual alternative source demonstration dated 3/18/2021.
(6) - Exceedance was determined to be from an alternate source in the still applicable Second 2021 Semiannual alternative source demonstration dated 2/24/2022.

Table 4
Comparison of Appendix III Parameter Results to Background Limits – April 2025
Monroe Power Plant BAI Inactive CCR Unit
Monroe, Michigan

Sample Location:		MW-10			MW-11		MW-12		MW-13		MW-14		MW-15	
Sample Date:		4/29/2025	5/29/2025[1]	PL	4/29/2025	PL	4/29/2025	PL	4/29/2025	PL	4/29/2025	PL	4/29/2025	PL
Constituent	Unit	Data			Data		Data		Data		Data		Data	
Appendix III														
Boron	ug/L	**560[5]**	--	530	**930[5]**	920	1,000	1,100	< 100	100	1,500	1,700	2,300	2,800
Calcium	ug/L	**180,000**	170,000	170,000	260,000	330,000	200,000	210,000	120,000	140,000	290,000	310,000	130,000	150,000
Chloride	mg/L	66	--	80	16	18	10	13	100	120	240	310	110	150
Fluoride	mg/L	0.43	--	0.68	0.93	1.2	0.83	0.91	0.38	0.51	0.29	0.57	0.55	0.64
pH, Field	su	7.0	--	6.6 - 7.5	7.4	6.9 - 7.5	7.5	7.4 - 7.9	6.9	6.2 - 7.7	7.1	6.8 - 7.3	7.2	6.9 - 7.4
Sulfate	mg/L	5.3	--	19	1,400	1,500	1,200	1,300	< 1	1.0	**460[6]**	430	< 1	1.0
Total Dissolved Solids	mg/L	820	--	840	2,000	2,100	1,700	1,800	520	1,100	1,600	1,700	640	770

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).
RESULT Shading and bold font indicates a confirmed exceedance of the Prediction Limit (PL).
(1) - Results shown for verification samples collected on 5/29/2025.
(2) - Exceedance was determined to be from an alternate source in the still applicable Second 2024 Semiannual alternative source demonstration dated 2/28/2025.
(3) - Exceedance was determined to be from an alternate source in the still applicable First 2020 Semiannual alternative source demonstration dated 9/21/2020.
(4) - Exceedance was determined to be from an alternate source in the still applicable First 2023 Semiannual alternative source demonstration dated 8/30/2023.
(5) - Exceedance was determined to be from an alternate source in the still applicable Second 2020 Semiannual alternative source demonstration dated 3/18/2021.
(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.

N

1 " = 2,000 '
1:24,000

0 2,000 4,000
FEET

TRC

1540 Eisenhower Place
Ann Arbor, MI 48108-3284
Phone: 734.971.7080

TRC - GIS

PROJECT:

DTE ELECTRIC COMPANY
MONROE POWER PLANT BOTTOM ASH IMPOUNDMENT
3500 EAST FRONT STREET
MONROE, MI 48161

TITLE:

SITE LOCATION MAP

DRAWN BY:	A. ADAIR
CHECKED BY:	H. SCHNAIDT
APPROVED BY:	V. BUENING
DATE:	JULY 2025
PROJ. NO.:	620074.0000.0000
FILE:	June2024_553931.0006-001.mxd

FIGURE 1

T:\1-PROJECTS\DTE Energy\MonroeMI_PP\518728_0006\June2024_553931.0006-001.mxd -- Saved By: LLILL on 6/25/2025, 10:40:35 AM

Plot Date: 6/25/2025, 10:46:10 AM by LLILL -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\DTE Energy\MonroeMI_PP\553931_0006\9-MXD\553931_0006-002.mxd

Coordinate System: NAD 1983 StatePlane Michigan South FIPS 2113 Feet (Foot US)
Map Rotation: 0

TRC - GIS

River Raisin
Discharge Canal
Plum Creek
Lake Erie
MW-5S
MW-15
MW-14
MW-4S
MW-7S
MW-7D
MW-9
MW-8D
MW-8S
MW-1D
MW-1S
MW-10
MW-13
MW-3D
MW-3S
MW-2S
MW-12
MW-11

LEGEND

- CCR PROGRAM MONITORING WELL
- INVESTIGATION MONITORING WELL
- UNIT SEPARATION BERM
- APPROXIMATE BOUNDARY OF INACTIVE BOTTOM ASH IMPOUNDMENT
- APPROXIMATE PLANT BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, (APRIL 2024).

N

1 " = 700 '
1:8,400

0 700 1,400
FEET

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108-3284
Phone: 734.971.7080

PROJECT:
DTE ELECTRIC COMPANY
MONROE POWER PLANT BOTTOM ASH IMPOUNDMENT
3500 EAST FRONT STREET
MONROE, MI 48161

TITLE:
INACTIVE BOTTOM ASH IMPOUNDMENT WELL LOCATION MAP

DRAWN BY:	A. FOJTIK
CHECKED BY:	H. SCHNAIDT
APPROVED BY:	V. BUENING
DATE:	JULY 2025
PROJ. NO.:	620074.0000.0000
FILE:	553931_0006-002.mxd

FIGURE 2

Plot Date: 7/2/2025, 13:39:45 PM by AFOJTIK -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\DTE Energy\MonroeMI_PP\620074_0000\9-MXD\620074_0000-003.mxd

Coordinate System: NAD 1983 StatePlane Michigan South FIPS 2113 Feet (Foot US)
Map Rotation: 0

TRC - GIS

River Raisin
Discharge Canal
Plum Creek
Lake Erie
573'
574'
MW-15 (572.46)
MW-7S (573.40)
MW-9 (573.66)
MW-10 (573.72)
MW-3S (573.50)
MW-11 (573.58)
MW-12 (573.59)
MW-2S (573.75)
MW-13 (572.52)
MW-1S (572.48)
MW-14 (574.68)
Lake Erie Surface Water Elevation (571.43)

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, APRIL 2024.
2. LAKE ERIE SURFACE WATER ELEVATION MEASURED AT NOAA GAUGING STATION 9063090 NEAR THE DTE FERMI POWER PLANT, NEWPORT, MICHIGAN.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.

LEGEND

- MONITORING WELL
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- UNIT SEPARATION BERM
- APPROXIMATE BOUNDARY OF INACTIVE BOTTOM ASH BASIN
- APPROXIMATE PLANT BOUNDARY

N

1 " = 700 '
1:8,400

0 700 1,400 FEET

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108-3284
Phone: 734.971.7080

PROJECT:
DTE ELECTRIC COMPANY
MONROE POWER PLANT BOTTOM ASH IMPOUNDMENT
3500 EAST FRONT STREET
MONROE, MI 48161

TITLE:
GROUNDWATER CONTOUR MAP
OCTOBER 2024

DRAWN BY:	A. FOJTIK
CHECKED BY:	H. SCHNAIDT
APPROVED BY:	V. BUENING
DATE:	JULY 2025
PROJ. NO.:	620074.0000.0000
FILE:	620074_0000-003.mxd

FIGURE 3

Plot Date: 7/2/2025, 13:40:02 PM by AFOJTIK -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\DTE Energy\MonroeMI_PP\620074_0000\9-MXD\620074_0000-004.mxd

Coordinate System: NAD 1983 StatePlane Michigan South FIPS 2113 Feet (Foot US)
Map Rotation: 0

TRC - GIS

River Raisin
Discharge Canal
Plum Creek
Lake Erie
573'
574'
MW-15 (573.12)
MW-7S (573.75)
MW-9 (574.05)
MW-10 (574.01)
MW-3S (573.19)
MW-11 (573.10)
MW-12 (573.15)
MW-2S (573.14)
MW-13 (573.00)
MW-1S (573.50)
MW-14 (574.98)
Lake Erie Surface Water Elevation (571.90)

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, APRIL 2024.
2. LAKE ERIE SURFACE WATER ELEVATION MEASURED AT NOAA GAUGING STATION 9063090 NEAR THE DTE FERMI POWER PLANT, NEWPORT, MICHIGAN.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.

LEGEND

- MONITORING WELL
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- UNIT SEPARATION BERM
- APPROXIMATE BOUNDARY OF INACTIVE BOTTOM ASH BASIN
- APPROXIMATE PLANT BOUNDARY

N

1 " = 700 '
1:8,400

0 700 1,400 FEET

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108-3284
Phone: 734.971.7080

PROJECT:
DTE ELECTRIC COMPANY
MONROE POWER PLANT BOTTOM ASH IMPOUNDMENT
3500 EAST FRONT STREET
MONROE, MI 48161

TITLE:
GROUNDWATER CONTOUR MAP
APRIL 2025

DRAWN BY:	A. FOJTIK
CHECKED BY:	H. SCHNAIDT
APPROVED BY:	V. BUENING
DATE:	JULY 2025
PROJ. NO.:	620074.0000
FILE:	620074_0000-004.mxd

FIGURE 4

Appendix A
February 2025 Alternative Source Demonstration

1540 Eisenhower Pl.
Ann Arbor, MI 48108

T 734.971.7080
TRCcompanies.com

February 28, 2025

Brett Coulter
Jackson District Office
Materials Management Division
Michigan Department of Environment, Great Lakes, and Energy
301 E. Louis Glick Hwy.
Jackson, MI 48161

Subject: Alternate Source Demonstration: Second Semiannual 2024 Groundwater Sampling Event, Monroe Power Plant Bottom Ash Impoundment Inactive Coal Combustion Residual Unit, 3500 East Front Street, Monroe, Michigan

Dear Mr. Coulter:

TRC was retained by DTE Electric Company (DTE Electric) to conduct routine groundwater monitoring activities at the Monroe Power Plant Bottom (MONPP) Bottom Ash Impoundment (BAI) inactive coal combustion residual (CCR) unit (the Site), located in Monroe, Michigan. Routine groundwater monitoring at the MONPP BAI Inactive CCR unit is conducted in accordance with the Michigan Department of Environment, Great Lakes, and Energy (EGLE)-approved *Hydrogeological Monitoring Plan* (MONPP BAI HMP) for the Site (TRC, June 30, 2020) and the United States Environmental Protection Agency (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA), as amended (the CCR Rule) (USEPA, April 2015).

As discussed in the *Second Semiannual 2024 Groundwater Monitoring Report* for the Site (TRC, January 2025), the statistical evaluation of the October 2024 detection monitoring indicator parameters indicated potential statistically significant increases (SSIs) for:

- Boron at MW-2S (1,100 micrograms per liter (µg/L).

Verification resampling for boron at MW-2S from the October 2024 event was conducted on December 5, 2024 by TRC personnel. The verification result for boron at MW-2S (1,100 mg/L) was above the PL (1,000 mg/L); therefore, the initial SSI for boron at MW-2S is confirmed (Table 1). It should be noted that the detected concentration of boron within groundwater at MW-2S is well below the Michigan Part 201 generic groundwater surface water interface (GSI) cleanup criteria for boron.

In accordance with §257.94(e)(2) and the HMP, DTE Electric may demonstrate that a source other than the CCR unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. This Alternate Source Demonstration (ASD) has been prepared to address the aforementioned boron SSI at MW-2S identified in the October 2024 detection monitoring event. The results of this ASD show that the boron SSI at MW-2S is not due to a release from the MONPP BAI Inactive CCR unit.

Background

The MONPP is located in Section 15, Township 7 South, Range 9 East, at 3500 East Front Street, Monroe in Monroe County, Michigan. The site location is shown in Figure 1. The MONPP BAI Inactive CCR unit is located within the southern portion of the MONPP parcel and is bounded by the MONPP facility to the north and northeast, Lake Erie to the southeast and south, and Plum Creek/the discharge canal to the west.

The bedrock in the site vicinity is overlain by approximately 40 to 50 feet of unconsolidated deposits of glacial origin. The deposits are comprised of two (2) distinct units: a hard glacial till immediately overlying bedrock and lacustrine (lakebed or lake shore) deposits which overlay the till unit. The till is comprised of highly compacted gray silty to sandy clay with some cobbles and boulders, and ranges from approximately 20 to 50 feet in thickness. The overlying lacustrine deposits are composed of 10 to 30 feet of fine-grained sand and silt with some soft clay except where there is a thin, discontinuous coarse sand unit at the base of the lacustrine sequence.

The detection monitoring well network for the MONPP BAI Inactive CCR unit consists of eleven monitoring wells that are screened in the uppermost aquifer. As discussed in the Stats Plan, intrawell statistical methods for the MONPP BAI Inactive CCR unit were selected based on the geology and hydrogeology at the Site. Monitoring wells MW-1S through MW-3S, MW-7S, and MW-9 through MW-15 are located around the perimeter of the MONPP BAI and provide data on both background and downgradient groundwater quality that has not been affected by the CCR unit (total of eleven background/downgradient monitoring wells). The monitoring well locations are shown in Figure 2 and the second semiannual 2024 groundwater contour figure is included as Figure 3. The *Monitoring Well Installation Report Coal Combustion Residuals (CCR) Rule – Inactive Bottom Ash Impoundment DTE Monroe* (Well Installation Report) (AECOM, April 2019, Revised August 2019) details the groundwater monitoring system.

Alternate Source Demonstration

As discussed above, verification resampling for boron at MW-2S was performed as recommended per the *Groundwater Statistical Evaluation Plan – Inactive Bottom Ash Impoundment* (Stats Plan) (AECOM, April 2019, Revised April 2020) and the *USEPA's Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (Unified Guidance) (USEPA, 2009) to achieve performance standards as specified in the HMP and by §257.93(g) in the CCR Rule. The December 2024 verification resampling confirmed the boron exceedance at MW-2S (Table 1). The following discussion presents the ASD for the confirmed prediction limit exceedance.

Boron at MW-2S

The SSI of boron in the groundwater at MW-2S, shown on Table 1, is due to natural variability in groundwater quality and not a release of CCR constituents from the MONPP BAI CCR unit. The lines of evidence provided in support of this conclusion are as follows:

Limited background sampling timeline to account for temporal variability – Groundwater is transient by nature and is subject to natural temporal changes in chemistry that occur over time. The boron SSI observed at MW-2S is slightly above the prediction limit as shown on

Table 1. This prediction limit was calculated in 2019, following the collection of 8 baseline samples in 16 months (from November 2017 to February 2019). The relatively short duration of the background data collection timeline limited the ability of the statistical analysis to capture the natural temporal trends in the groundwater quality at the MONPP BAI.

Laboratory precision and accuracy in boron analysis – The laboratory reported boron concentrations have a laboratory-reported precision (+/- 10%) and accuracy (+/- 10%) range and therefore the margin of error of the reported values bracket the PL for the MW-2S groundwater samples collected during the October 2024 original sampling event and the December 2024 confirmation sampling event. As such, the boron PL is within the margin of error of the 2SA 2024 laboratory results.

Lack of similar increase in other indicator parameters at MW-2S – The lack of SSIs for any other parameters at MW-2S suggests a source other than the CCR unit for the observed boron SSI at this location.

Spatial variability in groundwater quality – Boron concentrations vary considerably across the MONPP BAI well network. The boron concentrations observed in the MONPP BAI well network between 2017 and 2024 ranged from 34 to 2,900 ug/L. The boron concentrations observed at MW-2S during the October 2024 event is only slightly above the prediction limit (Table 1) and is well within the range of 34 to 2,900 ug/L observed across the entire monitoring network (Figure 4). This further demonstrates that boron concentrations at MW-2S are due to natural variability as they are within the expected range across the site.

The data also shows consistent and similar changes in boron concentrations occurring simultaneously across the majority of the well network (e.g. MW-03S, MW-09, MW-10, MW-11, MW-12, MW-14) along with MW-8S that is screened in the uppermost sand unit and not hydraulically connected to the BAI. This is observed in Figure 4 that shows the small peaks and valleys of the concentrations follow the same pattern from event to event, particularly over the past six events. This further supports the conclusion that the change in concentration observed at MW-2S is influenced by naturally occurring factors unrelated to the BAI CCR unit.

Conclusions and Recommendations

The information provided in this report serves as the ASD for the DTE Electric MONPP BAI Inactive CCR unit and was prepared in accordance with 40 CFR 257.94(e)(2) of the CCR Rule and the MONPP BAI HMP. This ASD demonstrates that the boron SSI from the second semiannual 2024 groundwater monitoring event is due to natural variability and is not due to a release of CCR related constituents into the groundwater from the MONPP BAI Inactive CCR unit. Therefore, based on the information provided in this ASD, DTE Electric plans to continue detection monitoring as per 40 CFR 257.94 and the MONPP BAI HMP at the MONPP BAI Inactive CCR unit.

Signatures and Certifications

Engineer Certification Statement

I hereby certify that the alternative source demonstration presented within this document for the MONPP BAI Inactive CCR unit has been prepared to meet the requirements of Title 40 CFR §257.94(e)(2) of the Federal CCR Rule and the June 30, 2020 Hydrogeological Monitoring Plan (HMP). 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 §257.94(e)(2) and the HMP.

Name: David B. McKenzie, P.E.	Expiration Date: December 17, 2025	
Company: TRC Engineers Michigan, Inc.	Date: February 28, 2025	

In addition, the signature below certifies that this letter report was prepared under the direction of a qualified groundwater scientist in accordance with the EGLE-approved HMP and the Stats Plan. A copy of this report will be placed in the facility file.

Sincerely,

TRC

Vincent E Buening, C.P.G
Sr. Project Manager

Sarah B. Holmstrom, P.G
Senior Hydrogeologist

cc: Christopher P. Scieszka, DTE Electric Company

Attachments

Table 1 Comparison of Groundwater Detection Monitoring Sampling Results to Background Limits – October and December 2024

Figure 1 Well Location Map
Figure 2 Groundwater Contour Map October 2024
Figure 3 Boron Time Series Plot (All Wells)

Attachment 1 References

Table

Table 1
Comparison of Groundwater Detection Parameter Results to Background Limits – October and December 2024
Monroe Power Plant BAI Inactive CCR Unit
Monroe, Michigan

Sample Location:		MW-1S		MW-2S			MW-3S		MW-7S		MW-9	
Sample Date:		10/22/2024	PL	10/22/2024	12/5/2024[5]	PL	10/22/2024	PL	10/21/2024	PL	10/21/2024	PL
Constituent	Unit	Data		Data			Data		Data		Data	
Appendix III												
Boron	ug/L	660	870	**1,100**	**1,100**	1,000	890	980	420	1,400	570	640
Calcium	ug/L	270,000	370,000	250,000	--	270,000	340,000	540,000	230,000	380,000	190,000	190,000
Chloride	mg/L	110	170	11	--	14	13	15	35	110	**74**[2]	59
Fluoride	mg/L	0.21	0.47	0.71	--	0.89	0.81	0.98	0.62	1.6	0.47	0.56
pH, Field	su	7.1	6.5 - 8.7	7.9	--	7.0 - 8.5	7.6	6.9 - 7.9	7.5	6.0 - 8.1	7.0	6.0 - 7.0
Sulfate	mg/L	130	850	1,300	--	1,600	1,200	1,400	**620**[1]	590	< 1	12
Total Dissolved Solids	mg/L	950	1,600	1,700	--	2,000	1,600	2,300	1,000	2,000	740	810
Part 115 Parameters												
Iron	ug/L	3,700	n=8	2,800	--	n=8	15,000	n<8	< 100	n=8	3,400	n=8

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).
RESULT Shading and bold font indicates a confirmed exceedance of the Prediction Limit (PL).
(1) - Exceedance was determined to be from an alternate source in the First 2020 Semiannual alternative source demonstration dated 9/21/2020.
(2) - Exceedance was determined to be from an alternate source in the First 2023 Semiannual alternative source demonstration dated 8/30/2023.
(3) - Exceedance was determined to be from an alternate source in the Second 2020 Semiannual alternative source demonstration dated 3/18/2021.
(4) - Exceedance was determined to be from an alternate source in the Second 2021 Semiannual alternative source demonstration dated 2/24/2022.
(5) - Results shown for verification sampling performed on 12/5/2024.

Table 1
Comparison of Groundwater Detection Parameter Results to Background Limits – October and December 2024
Monroe Power Plant BAI Inactive CCR Unit
Monroe, Michigan

Sample Location:		MW-10		MW-11		MW-12		MW-13		MW-14			MW-15		
Sample Date:		10/21/2024	PL	10/21/2024	PL	10/22/2024	PL	10/22/2024	PL	10/21/2024	12/5/2024[5]	PL	10/21/2024	12/5/2024[5]	PL
Constituent	Unit	Data		Data		Data		Data		Data			Data		
Appendix III															
Boron	ug/L	520	530	**1,000**[3]	920	1,100	1,100	< 100	100	1,500	--	1,700	2,500	--	2,800
Calcium	ug/L	170,000	170,000	270,000	330,000	190,000	210,000	130,000	140,000	**320,000**	310,000	310,000	140,000	--	150,000
Chloride	mg/L	62	80	16	18	10	13	99	120	260	--	310	110	--	150
Fluoride	mg/L	0.46	0.68	0.92	1.2	0.85	0.91	0.39	0.51	0.54	--	0.57	**0.68**	0.47	0.64
pH, Field	su	7.4	6.6 - 7.5	7.4	6.9 - 7.5	7.7	7.4 - 7.9	7.2	6.2 - 7.7	7.2	--	6.8 - 7.3	7.4	--	6.9 - 7.4
Sulfate	mg/L	11	19	1,400	1,500	1,100	1,300	< 1	1.0	**550**[4]	--	430	< 1	--	1.0
Total Dissolved Solids	mg/L	730	840	1,900	2,100	1,500	1,800	470	1,100	1,700	--	1,700	**1,100**	590	770
Part 115 Parameters															
Iron	ug/L	110	n=8	2,700	n=8	2,400	n=8	10,000	n=8	7,500	--	n=8	9,700	--	n=8

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).
RESULT Shading and bold font indicates a confirmed exceedance of the Prediction Limit (PL).
(1) - Exceedance was determined to be from an alternate source in the First 2020 Semiannual alternative source demonstration dated 9/21/2020.
(2) - Exceedance was determined to be from an alternate source in the First 2023 Semiannual alternative source demonstration dated 8/30/2023.
(3) - Exceedance was determined to be from an alternate source in the Second 2020 Semiannual alternative source demonstration dated 3/18/2021.
(4) - Exceedance was determined to be from an alternate source in the Second 2021 Semiannual alternative source demonstration dated 2/24/2022.
(5) - Results shown for verification sampling performed on 12/5/2024.

Figures

Plot Date: 12/10/2024, 15:12:13 PM by AFOJTIK -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\DTE Energy\MonroeMI_PP\553931_0006\9-MXD\553931_0006-002.mxd

Coordinate System: NAD 1983 StatePlane Michigan South FIPS 2113 Feet (Foot US)
Map Rotation: 0

TRC - GIS

LEGEND

- CCR PROGRAM MONITORING WELL
- INVESTIGATION MONITORING WELL
- UNIT SEPARATION BERM
- APPROXIMATE BOUNDARY OF INACTIVE BOTTOM ASH IMPOUNDMENT
- APPROXIMATE PLANT BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, (APRIL 2024).

N

1 " = 700 '
1:8,400

0 700 1,400
FEET

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108-3284
Phone: 734.971.7080

PROJECT:
DTE ELECTRIC COMPANY
MONROE POWER PLANT BOTTOM ASH IMPOUNDMENT
3500 EAST FRONT STREET
MONROE, MI 48161

TITLE:
INACTIVE BOTTOM ASH IMPOUNDMENT WELL LOCATION MAP

DRAWN BY:	A. FOJTIK
CHECKED BY:	H. SCHNAIDT
APPROVED BY:	V. BUENING
DATE:	JANUARY 2025
PROJ. NO.:	553931.0006
FILE:	553931_0006-002.mxd

FIGURE 1

Plot Date: 1/15/2025, 12:13:35 PM by AFOJTIK -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\DTE Energy\MonroeMI_PP\553931_0006\9-MXD\553931_0006-003q.mxd

Coordinate System: NAD 1983 StatePlane Michigan South FIPS 2113 Feet (Foot US)
Map Rotation: 0

TRC - GIS

River Raisin
Discharge Canal
Plum Creek
Lake Erie
573'
574'
575'
MW-15 (572.46)
MW-7S (573.40)
MW-9 (573.66)
MW-10 (573.72)
MW-3S (573.50)
MW-11 (573.58)
MW-12 (573.59)
MW-2S (573.75)
MW-14 (574.68)
MW-1S (572.48)
MW-13 (572.52)
Lake Erie Surface Water Elevation (571.43)

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, APRIL 2024.
2. LAKE ERIE SURFACE WATER ELEVATION MEASURED AT NOAA GAUGING STATION 9063090 NEAR THE DTE FERMI POWER PLANT, NEWPORT, MICHIGAN.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.

LEGEND

- MONITORING WELL
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- UNIT SEPARATION BERM
- APPROXIMATE BOUNDARY OF INACTIVE BOTTOM ASH BASIN
- APPROXIMATE PLANT BOUNDARY

N

1 " = 700 '
1:8,400

0 700 1,400 FEET

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108-3284
Phone: 734.971.7080

PROJECT:
DTE ELECTRIC COMPANY
MONROE POWER PLANT BOTTOM ASH IMPOUNDMENT
3500 EAST FRONT STREET
MONROE, MI 48161

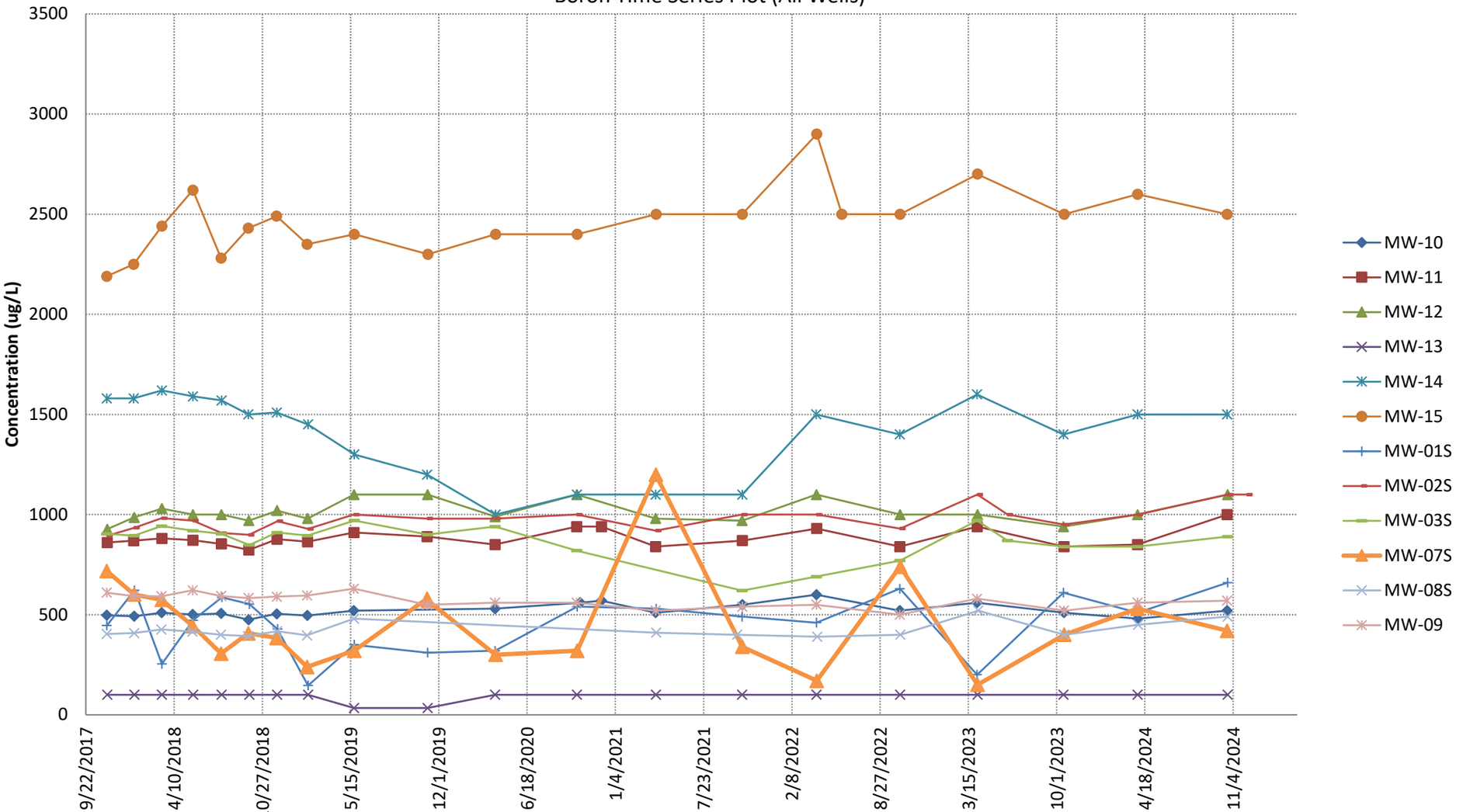
TITLE:
GROUNDWATER CONTOUR MAP
OCTOBER 2024

DRAWN BY:	A. FOJTIK
CHECKED BY:	H. SCHNAIDT
APPROVED BY:	V. BUENING
DATE:	JANUARY 2025
PROJ. NO.:	553931.0006
FILE:	553931_0006-003q.mxd

FIGURE 2

Figure 3

Boron Time Series Plot (All Wells)



Attachment 1
References

References

AECOM. April 2019, Revised August 2019. Monitoring Well Installation Report Coal Combustion Residuals (CCR) Rule – Inactive Bottom Ash Impoundment, DTE Monroe Plant, Monroe, Michigan. Prepared for DTE Electric Company.

AECOM. April 2019, Revised April 2020. Revised Groundwater Statistical Evaluation Plan – Inactive Bottom Ash Impoundment, DTE Monroe Plant, Monroe, Michigan. Prepared for DTE Electric Company.

TRC. June 30, 2020. Hydrogeological Monitoring Plan for the DTE Electric Company Monroe Power Bottom Ash Impoundment, 3500 East Front Street, Monroe, Michigan. Prepared for DTE Electric Company.

TRC. January 30, 2025. Second Semiannual 2024 Groundwater Monitoring Report prepared for the DTE Electric Company Monroe Power Plant Bottom Ash Impoundment Coal Combustion Residual Unit, 3500 East Front Street Monroe, Michigan.

USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA facilities, Unified Guidance. Office of Conservation and Recovery. EPA 530/R-09-007.

Appendix B
Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/8/2024 3:49:28 PM

JOB DESCRIPTION

CCR DTE MONPP-Bottom Ash Impoundment

JOB NUMBER

240-213667-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

myEOL

Job Notes

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

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

Authorization

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

Table of Contents

Definitions/Glossary

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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

Job ID: 240-213667-1 Eurofins Cleveland

Job Narrative
240-213667-1

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 10/25/2024 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 3 coolers at receipt time were 1.3°C, 1.5°C and 2.1°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.

Method Summary

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
9056A	Anions, Ion Chromatography	SW846	EET CLE
SM 2540C	Solids, Total Dissolved (TDS)	SM	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. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-213667-1	MW-14	Water	10/21/24 08:43	10/25/24 08:00
240-213667-2	DUP-01	Water	10/21/24 00:00	10/25/24 08:00
240-213667-3	MW-15	Water	10/21/24 10:21	10/25/24 08:00
240-213667-4	MW-7S	Water	10/21/24 10:47	10/25/24 08:00
240-213667-5	MW-9	Water	10/21/24 11:23	10/25/24 08:00
240-213667-6	MW-10	Water	10/21/24 11:58	10/25/24 08:00
240-213667-7	MW-11	Water	10/21/24 13:45	10/25/24 08:00
240-213667-8	MW-3S	Water	10/22/24 08:05	10/25/24 08:00
240-213667-9	MW-12	Water	10/22/24 08:50	10/25/24 08:00
240-213667-10	MW-2S	Water	10/22/24 09:30	10/25/24 08:00
240-213667-11	MW-13	Water	10/22/24 10:17	10/25/24 08:00
240-213667-12	MW-1S	Water	10/22/24 11:09	10/25/24 08:00

Detection Summary

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-14 Lab Sample ID: 240-213667-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1500		100		ug/L	1		6010D	Total Recoverable
Calcium	320000		1000		ug/L	1		6020B	Total Recoverable
Iron	7500		100		ug/L	1		6020B	Total Recoverable
Chloride	260		10		mg/L	10		9056A	Total/NA
Fluoride	0.54		0.050		mg/L	1		9056A	Total/NA
Sulfate	550		10		mg/L	10		9056A	Total/NA
Total Dissolved Solids	1700		20		mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01 Lab Sample ID: 240-213667-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1500		100		ug/L	1		6010D	Total Recoverable
Calcium	300000		1000		ug/L	1		6020B	Total Recoverable
Iron	7100		100		ug/L	1		6020B	Total Recoverable
Chloride	260		10		mg/L	10		9056A	Total/NA
Fluoride	0.53		0.050		mg/L	1		9056A	Total/NA
Sulfate	560		10		mg/L	10		9056A	Total/NA
Total Dissolved Solids	1600		20		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-15 Lab Sample ID: 240-213667-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	2500		100		ug/L	1		6010D	Total Recoverable
Calcium	140000		1000		ug/L	1		6020B	Total Recoverable
Iron	9700		100		ug/L	1		6020B	Total Recoverable
Chloride	110		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.68		0.050		mg/L	1		9056A	Total/NA
Total Dissolved Solids	1100		20		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-7S Lab Sample ID: 240-213667-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	420		100		ug/L	1		6010D	Total Recoverable
Calcium	230000		1000		ug/L	1		6020B	Total Recoverable
Chloride	35		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.62		0.050		mg/L	1		9056A	Total/NA
Sulfate	620		5.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids	1000		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-9 Lab Sample ID: 240-213667-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	570		100		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-9 (Continued) — Lab Sample ID: 240-213667-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	190000		1000		ug/L	1		6020B	Total Recoverable
Iron	3400		100		ug/L	1		6020B	Total Recoverable
Chloride	74		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.47		0.050		mg/L	1		9056A	Total/NA
Total Dissolved Solids	740		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 240-213667-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	520		100		ug/L	1		6010D	Total Recoverable
Calcium	170000		1000		ug/L	1		6020B	Total Recoverable
Iron	110		100		ug/L	1		6020B	Total Recoverable
Chloride	62		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.46		0.050		mg/L	1		9056A	Total/NA
Sulfate	11		1.0		mg/L	1		9056A	Total/NA
Total Dissolved Solids	730		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 240-213667-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100		ug/L	1		6010D	Total Recoverable
Calcium	270000		1000		ug/L	1		6020B	Total Recoverable
Iron	2700		100		ug/L	1		6020B	Total Recoverable
Chloride	16		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.92		0.050		mg/L	1		9056A	Total/NA
Sulfate	1400		10		mg/L	10		9056A	Total/NA
Total Dissolved Solids	1900		20		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-3S — Lab Sample ID: 240-213667-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	890		100		ug/L	1		6010D	Total Recoverable
Boron	970		100		ug/L	1		6010D	Dissolved
Calcium	340000		1000		ug/L	1		6020B	Total Recoverable
Iron	15000	F1	100		ug/L	1		6020B	Total Recoverable
Calcium	230000		1000		ug/L	1		6020B	Dissolved
Iron	1500		100		ug/L	1		6020B	Dissolved
Chloride	13		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.81		0.050		mg/L	1		9056A	Total/NA
Sulfate	1200		10		mg/L	10		9056A	Total/NA
Total Dissolved Solids	1600		20		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-12 — Lab Sample ID: 240-213667-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100		ug/L	1		6010D	Total Recoverable
Calcium	190000		1000		ug/L	1		6020B	Total Recoverable
Iron	2400		100		ug/L	1		6020B	Total Recoverable
Chloride	10		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.85		0.050		mg/L	1		9056A	Total/NA
Sulfate	1100		10		mg/L	10		9056A	Total/NA
Total Dissolved Solids	1500		20		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-2S — Lab Sample ID: 240-213667-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100		ug/L	1		6010D	Total Recoverable
Calcium	250000		1000		ug/L	1		6020B	Total Recoverable
Iron	2800		100		ug/L	1		6020B	Total Recoverable
Chloride	11		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.71		0.050		mg/L	1		9056A	Total/NA
Sulfate	1300		10		mg/L	10		9056A	Total/NA
Total Dissolved Solids	1700		20		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 240-213667-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	130000		1000		ug/L	1		6020B	Total Recoverable
Iron	10000		100		ug/L	1		6020B	Total Recoverable
Chloride	99		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.39		0.050		mg/L	1		9056A	Total/NA
Total Dissolved Solids	470		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-1S — Lab Sample ID: 240-213667-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	660		100		ug/L	1		6010D	Total Recoverable
Calcium	270000		1000		ug/L	1		6020B	Total Recoverable
Iron	3700		100		ug/L	1		6020B	Total Recoverable
Chloride	110		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.21		0.050		mg/L	1		9056A	Total/NA
Sulfate	130		1.0		mg/L	1		9056A	Total/NA
Total Dissolved Solids	950		20		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-14 **Lab Sample ID: 240-213667-1**
Date Collected: 10/21/24 08:43 **Matrix: Water**
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1500		100		ug/L		10/28/24 12:00	10/29/24 10:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320000		1000		ug/L		10/28/24 12:00	10/29/24 13:38	1
Iron	7500		100		ug/L		10/28/24 12:00	10/29/24 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	260		10		mg/L			11/04/24 20:57	10
Fluoride (SW846 9056A)	0.54		0.050		mg/L			11/04/24 20:06	1
Sulfate (SW846 9056A)	550		10		mg/L			11/04/24 20:57	10
Total Dissolved Solids (SM 2540C)	1700		20		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation.
Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: DUP-01
Lab Sample ID: 240-213667-2
Date Collected: 10/21/24 00:00
Matrix: Water
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1500		100		ug/L		10/28/24 12:00	10/29/24 12:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300000		1000		ug/L		10/28/24 12:00	10/29/24 13:41	1
Iron	7100		100		ug/L		10/28/24 12:00	10/29/24 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	260		10		mg/L			11/04/24 22:05	10
Fluoride (SW846 9056A)	0.53		0.050		mg/L			11/04/24 21:48	1
Sulfate (SW846 9056A)	560		10		mg/L			11/04/24 22:05	10
Total Dissolved Solids (SM 2540C)	1600		20		mg/L			10/28/24 08:29	1

Client: TRC Environmental Corporation.
Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-15
Lab Sample ID: 240-213667-3
Date Collected: 10/21/24 10:21
Matrix: Water
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	2500		100		ug/L		10/28/24 12:00	10/29/24 12:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140000		1000		ug/L		10/28/24 12:00	10/29/24 14:08	1
Iron	9700		100		ug/L		10/28/24 12:00	10/29/24 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	110		1.0		mg/L			11/04/24 22:56	1
Fluoride (SW846 9056A)	0.68		0.050		mg/L			11/04/24 22:56	1
Sulfate (SW846 9056A)	1.0	U	1.0		mg/L			11/04/24 22:56	1
Total Dissolved Solids (SM 2540C)	1100		20		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-7S **Lab Sample ID: 240-213667-4**
Date Collected: 10/21/24 10:47 **Matrix: Water**
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	420		100		ug/L		10/28/24 12:00	10/29/24 12:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	230000		1000		ug/L		10/28/24 12:00	10/29/24 14:12	1
Iron	100	U	100		ug/L		10/28/24 12:00	10/29/24 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	35		1.0		mg/L			11/04/24 23:30	1
Fluoride (SW846 9056A)	0.62		0.050		mg/L			11/04/24 23:30	1
Sulfate (SW846 9056A)	620		5.0		mg/L			11/04/24 23:47	5
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-9 **Lab Sample ID: 240-213667-5**
Date Collected: 10/21/24 11:23 **Matrix: Water**
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	570		100		ug/L		10/28/24 12:00	10/29/24 12:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190000		1000		ug/L		10/28/24 12:00	10/29/24 14:15	1
Iron	3400		100		ug/L		10/28/24 12:00	10/29/24 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	74		1.0		mg/L			11/05/24 00:04	1
Fluoride (SW846 9056A)	0.47		0.050		mg/L			11/05/24 00:04	1
Sulfate (SW846 9056A)	1.0	U	1.0		mg/L			11/05/24 00:04	1
Total Dissolved Solids (SM 2540C)	740		10		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation.
Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-10
Lab Sample ID: 240-213667-6
Date Collected: 10/21/24 11:58
Matrix: Water
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	520		100		ug/L		10/28/24 12:00	10/29/24 12:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	170000		1000		ug/L		10/28/24 12:00	10/29/24 14:18	1
Iron	110		100		ug/L		10/28/24 12:00	10/29/24 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	62		1.0		mg/L			11/05/24 00:38	1
Fluoride (SW846 9056A)	0.46		0.050		mg/L			11/05/24 00:38	1
Sulfate (SW846 9056A)	11		1.0		mg/L			11/05/24 00:38	1
Total Dissolved Solids (SM 2540C)	730		10		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-11 **Lab Sample ID: 240-213667-7**
Date Collected: 10/21/24 13:45 **Matrix: Water**
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100		ug/L		10/28/24 12:00	10/29/24 12:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270000		1000		ug/L		10/28/24 12:00	10/29/24 14:21	1
Iron	2700		100		ug/L		10/28/24 12:00	10/29/24 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	16		1.0		mg/L			11/05/24 01:12	1
Fluoride (SW846 9056A)	0.92		0.050		mg/L			11/05/24 01:12	1
Sulfate (SW846 9056A)	1400		10		mg/L			11/05/24 01:29	10
Total Dissolved Solids (SM 2540C)	1900		20		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-3S **Lab Sample ID: 240-213667-8**
Date Collected: 10/22/24 08:05 **Matrix: Water**
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	890		100		ug/L		11/05/24 14:00	11/06/24 18:09	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	970		100		ug/L		10/28/24 12:00	10/29/24 12:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340000		1000		ug/L		11/05/24 14:00	11/06/24 12:36	1
Iron	15000	F1	100		ug/L		11/05/24 14:00	11/06/24 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	230000		1000		ug/L		10/28/24 12:00	10/29/24 14:23	1
Iron	1500		100		ug/L		10/28/24 12:00	10/29/24 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	13		1.0		mg/L			11/05/24 02:20	1
Fluoride (SW846 9056A)	0.81		0.050		mg/L			11/05/24 02:20	1
Sulfate (SW846 9056A)	1200		10		mg/L			11/05/24 02:37	10
Total Dissolved Solids (SM 2540C)	1600		20		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation.
Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-12
Lab Sample ID: 240-213667-9
Date Collected: 10/22/24 08:50
Matrix: Water
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100		ug/L		10/28/24 12:00	10/29/24 12:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190000		1000		ug/L		10/28/24 12:00	10/29/24 14:25	1
Iron	2400		100		ug/L		10/28/24 12:00	10/29/24 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	10		1.0		mg/L			11/05/24 02:54	1
Fluoride (SW846 9056A)	0.85		0.050		mg/L			11/05/24 02:54	1
Sulfate (SW846 9056A)	1100		10		mg/L			11/07/24 15:01	10
Total Dissolved Solids (SM 2540C)	1500		20		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation.
Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-2S
Lab Sample ID: 240-213667-10
Date Collected: 10/22/24 09:30
Matrix: Water
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100		ug/L		10/28/24 12:00	10/29/24 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250000		1000		ug/L		10/28/24 12:00	10/29/24 14:28	1
Iron	2800		100		ug/L		10/28/24 12:00	10/29/24 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	11		1.0		mg/L			11/05/24 03:28	1
Fluoride (SW846 9056A)	0.71		0.050		mg/L			11/05/24 03:28	1
Sulfate (SW846 9056A)	1300		10		mg/L			11/05/24 03:45	10
Total Dissolved Solids (SM 2540C)	1700		20		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation.
Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-13
Lab Sample ID: 240-213667-11
Date Collected: 10/22/24 10:17
Matrix: Water
Date Received: 10/25/24 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		10/28/24 12:00	10/29/24 12:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130000**		1000		ug/L		10/28/24 12:00	10/29/24 14:30	1
Iron	**10000**		100		ug/L		10/28/24 12:00	10/29/24 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	**99**		1.0		mg/L			11/05/24 04:02	1
Fluoride (SW846 9056A)	**0.39**		0.050		mg/L			11/05/24 04:02	1
Sulfate (SW846 9056A)	1.0	U	1.0		mg/L			11/05/24 04:02	1
Total Dissolved Solids (SM 2540C)	**470**		10		mg/L			10/25/24 11:42	1

Client: TRC Environmental Corporation.
Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-1S
Lab Sample ID: 240-213667-12
Date Collected: 10/22/24 11:09
Matrix: Water
Date Received: 10/25/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	660		100		ug/L		10/28/24 12:00	10/29/24 12:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270000		1000		ug/L		10/28/24 12:00	10/29/24 14:33	1
Iron	3700		100		ug/L		10/28/24 12:00	10/29/24 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	110		1.0		mg/L			11/05/24 06:18	1
Fluoride (SW846 9056A)	0.21		0.050		mg/L			11/05/24 06:18	1
Sulfate (SW846 9056A)	130		1.0		mg/L			11/05/24 06:18	1
Total Dissolved Solids (SM 2540C)	950		20		mg/L			10/25/24 11:42	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-632623/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 632969 — **Prep Batch: 632623**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100		ug/L		10/28/24 12:00	10/29/24 10:46	1

Lab Sample ID: LCS 240-632623/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 632969 — **Prep Batch: 632623**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1000	973		ug/L		97	80 - 120		

Lab Sample ID: 240-213667-1 MS — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 632969 — **Prep Batch: 632623**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron	1500		1000	2660		ug/L		112	75 - 125		

Lab Sample ID: 240-213667-1 MSD — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 632969 — **Prep Batch: 632623**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1500		1000	2540		ug/L		100	75 - 125	5	20

Lab Sample ID: MB 240-634002/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 634221 — **Prep Batch: 634002**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100		ug/L		11/05/24 14:00	11/06/24 18:01	1

Lab Sample ID: LCS 240-634002/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 634221 — **Prep Batch: 634002**

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

Lab Sample ID: 240-213667-8 MS — **Client Sample ID: MW-3S**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 634221 — **Prep Batch: 634002**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron	890		1000	1980		ug/L		109	75 - 125		

Lab Sample ID: 240-213667-8 MSD — **Client Sample ID: MW-3S**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 634221 — **Prep Batch: 634002**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	890		1000	1990		ug/L		110	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-632623/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 633017 — **Prep Batch: 632623**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000		ug/L		10/28/24 12:00	10/29/24 13:33	1
Iron	100	U	100		ug/L		10/28/24 12:00	10/29/24 13:33	1

Lab Sample ID: LCS 240-632623/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 633017 — **Prep Batch: 632623**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			25000	24000		ug/L		96	80 - 120		
Iron			5000	4770		ug/L		95	80 - 120		

Lab Sample ID: 240-213667-2 MS — **Client Sample ID: DUP-01**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 633017 — **Prep Batch: 632623**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	300000		25000	313000	4	ug/L		38	80 - 120		
Iron	7100		5000	11400		ug/L		87	80 - 120		

Lab Sample ID: 240-213667-2 MSD — **Client Sample ID: DUP-01**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 633017 — **Prep Batch: 632623**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	300000		25000	324000	4	ug/L		84	80 - 120	4	20
Iron	7100		5000	11800		ug/L		94	80 - 120	3	20

Lab Sample ID: MB 240-634002/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 634287 — **Prep Batch: 634002**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000		ug/L		11/05/24 14:00	11/06/24 12:31	1
Iron	100	U	100		ug/L		11/05/24 14:00	11/06/24 12:31	1

Lab Sample ID: LCS 240-634002/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 634287 — **Prep Batch: 634002**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			25000	25100		ug/L		101	80 - 120		
Iron			5000	5110		ug/L		102	80 - 120		

Lab Sample ID: 240-213667-8 MS — **Client Sample ID: MW-3S**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 634287 — **Prep Batch: 634002**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	340000		25000	370000	4	ug/L		130	80 - 120		
Iron	15000	F1	5000	21800	F1	ug/L		127	80 - 120		

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 240-213667-8 MSD — **Client Sample ID: MW-3S**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 634287 — **Prep Batch: 634002**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	340000		25000	365000	4	ug/L		111	80 - 120	1	20
Iron	15000	F1	5000	21500		ug/L		120	80 - 120	2	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-633893/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0		mg/L			11/04/24 19:32	1
Fluoride	0.050	U	0.050		mg/L			11/04/24 19:32	1
Sulfate	1.0	U	1.0		mg/L			11/04/24 19:32	1

Lab Sample ID: LCS 240-633893/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.0	49.1		mg/L		98	90 - 110		
Fluoride			2.50	2.51		mg/L		101	90 - 110		
Sulfate			50.0	49.4		mg/L		99	90 - 110		

Lab Sample ID: 240-213667-1 MS — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.54		2.50	2.87		mg/L		93	80 - 120		

Lab Sample ID: 240-213667-1 MS — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	260		500	684		mg/L		85	80 - 120		
Sulfate	550		500	964		mg/L		83	80 - 120		

Lab Sample ID: 240-213667-1 MSD — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.54		2.50	2.89		mg/L		94	80 - 120	1	15

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

Lab Sample ID: 240-213667-1 MSD — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	260		500	772		mg/L		103	80 - 120	12	15
Fluoride	0.50	U F2	25.0	26.5	F2	mg/L		106	80 - 120	19	15
Sulfate	550		500	1050		mg/L		101	80 - 120	9	15

Lab Sample ID: 240-213667-11 MS — **Client Sample ID: MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	99		50.0	146		mg/L		94	80 - 120
Fluoride	0.39		2.50	2.92		mg/L		101	80 - 120
Sulfate	1.0	U	50.0	54.8		mg/L		110	80 - 120

Lab Sample ID: 240-213667-11 MS — **Client Sample ID: MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.0	U	250	276		mg/L		110	80 - 120

Lab Sample ID: 240-213667-11 MSD — **Client Sample ID: MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	99		50.0	145		mg/L		91	80 - 120	1	15
Fluoride	0.39		2.50	2.87		mg/L		99	80 - 120	2	15
Sulfate	1.0	U	50.0	53.9		mg/L		108	80 - 120	2	15

Lab Sample ID: 240-213667-11 MSD — **Client Sample ID: MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 633893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		250	348		mg/L		99	80 - 120	5	15
Fluoride	0.37		12.5	12.9		mg/L		100	80 - 120	7	15
Sulfate	5.0	U	250	258		mg/L		103	80 - 120	7	15

Lab Sample ID: MB 240-634247/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 634247

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0		mg/L			11/07/24 13:02	1
Fluoride	0.050	U	0.050		mg/L			11/07/24 13:02	1
Sulfate	1.0	U	1.0		mg/L			11/07/24 13:02	1

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

Lab Sample ID: LCS 240-634247/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 634247

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	2.54		mg/L		102	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

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

Lab Sample ID: MB 240-632519/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 632519

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	mg/L			10/25/24 11:42	1

Lab Sample ID: LCS 240-632519/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 632519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	495	487		mg/L		98	80 - 120

Lab Sample ID: 240-213667-9 DU — **Client Sample ID: MW-12**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 632519

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1500		1670		mg/L		9	20

Lab Sample ID: 240-213667-11 DU — **Client Sample ID: MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 632519

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	470		540		mg/L		13	20

Lab Sample ID: MB 240-632674/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 632674

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	mg/L			10/28/24 08:29	1

Lab Sample ID: LCS 240-632674/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 632674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	495	475		mg/L		96	80 - 120

Metals

Prep Batch: 632623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-1	MW-14	Total Recoverable	Water	3005A	
240-213667-2	DUP-01	Total Recoverable	Water	3005A	
240-213667-3	MW-15	Total Recoverable	Water	3005A	
240-213667-4	MW-7S	Total Recoverable	Water	3005A	
240-213667-5	MW-9	Total Recoverable	Water	3005A	
240-213667-6	MW-10	Total Recoverable	Water	3005A	
240-213667-7	MW-11	Total Recoverable	Water	3005A	
240-213667-8	MW-3S	Dissolved	Water	3005A	
240-213667-9	MW-12	Total Recoverable	Water	3005A	
240-213667-10	MW-2S	Total Recoverable	Water	3005A	
240-213667-11	MW-13	Total Recoverable	Water	3005A	
240-213667-12	MW-1S	Total Recoverable	Water	3005A	
MB 240-632623/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-632623/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-632623/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-213667-1 MS	MW-14	Total Recoverable	Water	3005A	
240-213667-1 MSD	MW-14	Total Recoverable	Water	3005A	
240-213667-2 MS	DUP-01	Total Recoverable	Water	3005A	
240-213667-2 MSD	DUP-01	Total Recoverable	Water	3005A	

Analysis Batch: 632969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-1	MW-14	Total Recoverable	Water	6010D	632623
240-213667-2	DUP-01	Total Recoverable	Water	6010D	632623
240-213667-3	MW-15	Total Recoverable	Water	6010D	632623
240-213667-4	MW-7S	Total Recoverable	Water	6010D	632623
240-213667-5	MW-9	Total Recoverable	Water	6010D	632623
240-213667-6	MW-10	Total Recoverable	Water	6010D	632623
240-213667-7	MW-11	Total Recoverable	Water	6010D	632623
240-213667-8	MW-3S	Dissolved	Water	6010D	632623
240-213667-9	MW-12	Total Recoverable	Water	6010D	632623
240-213667-10	MW-2S	Total Recoverable	Water	6010D	632623
240-213667-11	MW-13	Total Recoverable	Water	6010D	632623
240-213667-12	MW-1S	Total Recoverable	Water	6010D	632623
MB 240-632623/1-A	Method Blank	Total Recoverable	Water	6010D	632623
LCS 240-632623/2-A	Lab Control Sample	Total Recoverable	Water	6010D	632623
240-213667-1 MS	MW-14	Total Recoverable	Water	6010D	632623
240-213667-1 MSD	MW-14	Total Recoverable	Water	6010D	632623

Analysis Batch: 633017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-1	MW-14	Total Recoverable	Water	6020B	632623
240-213667-2	DUP-01	Total Recoverable	Water	6020B	632623
240-213667-3	MW-15	Total Recoverable	Water	6020B	632623
240-213667-4	MW-7S	Total Recoverable	Water	6020B	632623
240-213667-5	MW-9	Total Recoverable	Water	6020B	632623
240-213667-6	MW-10	Total Recoverable	Water	6020B	632623
240-213667-7	MW-11	Total Recoverable	Water	6020B	632623
240-213667-8	MW-3S	Dissolved	Water	6020B	632623
240-213667-9	MW-12	Total Recoverable	Water	6020B	632623
240-213667-10	MW-2S	Total Recoverable	Water	6020B	632623

Metals (Continued)

Analysis Batch: 633017 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-11	MW-13	Total Recoverable	Water	6020B	632623
240-213667-12	MW-1S	Total Recoverable	Water	6020B	632623
MB 240-632623/1-A	Method Blank	Total Recoverable	Water	6020B	632623
LCS 240-632623/3-A	Lab Control Sample	Total Recoverable	Water	6020B	632623
240-213667-2 MS	DUP-01	Total Recoverable	Water	6020B	632623
240-213667-2 MSD	DUP-01	Total Recoverable	Water	6020B	632623

Prep Batch: 634002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-8	MW-3S	Total Recoverable	Water	3005A	
MB 240-634002/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-634002/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-634002/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-213667-8 MS	MW-3S	Total Recoverable	Water	3005A	
240-213667-8 MS	MW-3S	Total Recoverable	Water	3005A	
240-213667-8 MSD	MW-3S	Total Recoverable	Water	3005A	
240-213667-8 MSD	MW-3S	Total Recoverable	Water	3005A	

Analysis Batch: 634221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-8	MW-3S	Total Recoverable	Water	6010D	634002
MB 240-634002/1-A	Method Blank	Total Recoverable	Water	6010D	634002
LCS 240-634002/2-A	Lab Control Sample	Total Recoverable	Water	6010D	634002
240-213667-8 MS	MW-3S	Total Recoverable	Water	6010D	634002
240-213667-8 MSD	MW-3S	Total Recoverable	Water	6010D	634002

Analysis Batch: 634287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-8	MW-3S	Total Recoverable	Water	6020B	634002
MB 240-634002/1-A	Method Blank	Total Recoverable	Water	6020B	634002
LCS 240-634002/3-A	Lab Control Sample	Total Recoverable	Water	6020B	634002
240-213667-8 MS	MW-3S	Total Recoverable	Water	6020B	634002
240-213667-8 MSD	MW-3S	Total Recoverable	Water	6020B	634002

General Chemistry

Analysis Batch: 632519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-1	MW-14	Total/NA	Water	SM 2540C	
240-213667-3	MW-15	Total/NA	Water	SM 2540C	
240-213667-4	MW-7S	Total/NA	Water	SM 2540C	
240-213667-5	MW-9	Total/NA	Water	SM 2540C	
240-213667-6	MW-10	Total/NA	Water	SM 2540C	
240-213667-7	MW-11	Total/NA	Water	SM 2540C	
240-213667-8	MW-3S	Total/NA	Water	SM 2540C	
240-213667-9	MW-12	Total/NA	Water	SM 2540C	
240-213667-10	MW-2S	Total/NA	Water	SM 2540C	
240-213667-11	MW-13	Total/NA	Water	SM 2540C	
240-213667-12	MW-1S	Total/NA	Water	SM 2540C	
MB 240-632519/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-632519/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 632519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-9 DU	MW-12	Total/NA	Water	SM 2540C	
240-213667-11 DU	MW-13	Total/NA	Water	SM 2540C	

Analysis Batch: 632674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-2	DUP-01	Total/NA	Water	SM 2540C	
MB 240-632674/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-632674/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 633893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-1	MW-14	Total/NA	Water	9056A	
240-213667-1	MW-14	Total/NA	Water	9056A	
240-213667-2	DUP-01	Total/NA	Water	9056A	
240-213667-2	DUP-01	Total/NA	Water	9056A	
240-213667-3	MW-15	Total/NA	Water	9056A	
240-213667-4	MW-7S	Total/NA	Water	9056A	
240-213667-4	MW-7S	Total/NA	Water	9056A	
240-213667-5	MW-9	Total/NA	Water	9056A	
240-213667-6	MW-10	Total/NA	Water	9056A	
240-213667-7	MW-11	Total/NA	Water	9056A	
240-213667-7	MW-11	Total/NA	Water	9056A	
240-213667-8	MW-3S	Total/NA	Water	9056A	
240-213667-8	MW-3S	Total/NA	Water	9056A	
240-213667-9	MW-12	Total/NA	Water	9056A	
240-213667-10	MW-2S	Total/NA	Water	9056A	
240-213667-10	MW-2S	Total/NA	Water	9056A	
240-213667-11	MW-13	Total/NA	Water	9056A	
240-213667-12	MW-1S	Total/NA	Water	9056A	
MB 240-633893/3	Method Blank	Total/NA	Water	9056A	
LCS 240-633893/4	Lab Control Sample	Total/NA	Water	9056A	
240-213667-1 MS	MW-14	Total/NA	Water	9056A	
240-213667-1 MS	MW-14	Total/NA	Water	9056A	
240-213667-1 MSD	MW-14	Total/NA	Water	9056A	
240-213667-1 MSD	MW-14	Total/NA	Water	9056A	
240-213667-11 MS	MW-13	Total/NA	Water	9056A	
240-213667-11 MS	MW-13	Total/NA	Water	9056A	
240-213667-11 MSD	MW-13	Total/NA	Water	9056A	
240-213667-11 MSD	MW-13	Total/NA	Water	9056A	

Analysis Batch: 634247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-213667-9	MW-12	Total/NA	Water	9056A	
MB 240-634247/3	Method Blank	Total/NA	Water	9056A	
LCS 240-634247/4	Lab Control Sample	Total/NA	Water	9056A	

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-14
Date Collected: 10/21/24 08:43
Date Received: 10/25/24 08:00

Lab Sample ID: 240-213667-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 10:54
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 13:38
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/04/24 20:06
Total/NA	Analysis	9056A		10	633893	JMR	EET CLE	11/04/24 20:57
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Client Sample ID: DUP-01
Date Collected: 10/21/24 00:00
Date Received: 10/25/24 08:00

Lab Sample ID: 240-213667-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:08
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 13:41
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/04/24 21:48
Total/NA	Analysis	9056A		10	633893	JMR	EET CLE	11/04/24 22:05
Total/NA	Analysis	SM 2540C		1	632674	TAV2	EET CLE	10/28/24 08:29

Client Sample ID: MW-15
Date Collected: 10/21/24 10:21
Date Received: 10/25/24 08:00

Lab Sample ID: 240-213667-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:12
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:08
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/04/24 22:56
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Client Sample ID: MW-7S
Date Collected: 10/21/24 10:47
Date Received: 10/25/24 08:00

Lab Sample ID: 240-213667-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:16
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:12
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/04/24 23:30
Total/NA	Analysis	9056A		5	633893	JMR	EET CLE	11/04/24 23:47

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-7S — Lab Sample ID: 240-213667-4

Date Collected: 10/21/24 10:47 — **Matrix: Water**
Date Received: 10/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Client Sample ID: MW-9 — Lab Sample ID: 240-213667-5

Date Collected: 10/21/24 11:23 — **Matrix: Water**
Date Received: 10/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:20
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:15
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/05/24 00:04
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Client Sample ID: MW-10 — Lab Sample ID: 240-213667-6

Date Collected: 10/21/24 11:58 — **Matrix: Water**
Date Received: 10/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:25
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:18
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/05/24 00:38
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Client Sample ID: MW-11 — Lab Sample ID: 240-213667-7

Date Collected: 10/21/24 13:45 — **Matrix: Water**
Date Received: 10/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:29
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:21
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/05/24 01:12
Total/NA	Analysis	9056A		10	633893	JMR	EET CLE	11/05/24 01:29
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-3S
Lab Sample ID: 240-213667-8
Date Collected: 10/22/24 08:05
Matrix: Water
Date Received: 10/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Dissolved	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:33
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6010D		1	634221	RKT	EET CLE	11/06/24 18:09
Dissolved	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Dissolved	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:23
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6020B		1	634287	AJC	EET CLE	11/06/24 12:36
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/05/24 02:20
Total/NA	Analysis	9056A		10	633893	JMR	EET CLE	11/05/24 02:37
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Client Sample ID: MW-12
Lab Sample ID: 240-213667-9
Date Collected: 10/22/24 08:50
Matrix: Water
Date Received: 10/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:37
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:25
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/05/24 02:54
Total/NA	Analysis	9056A		10	634247	JMR	EET CLE	11/07/24 15:01
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Client Sample ID: MW-2S
Lab Sample ID: 240-213667-10
Date Collected: 10/22/24 09:30
Matrix: Water
Date Received: 10/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:42
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:28
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/05/24 03:28
Total/NA	Analysis	9056A		10	633893	JMR	EET CLE	11/05/24 03:45
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

Client Sample ID: MW-13 — Lab Sample ID: 240-213667-11

Date Collected: 10/22/24 10:17 — **Matrix: Water**
Date Received: 10/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:46
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:30
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/05/24 04:02
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

Client Sample ID: MW-1S — Lab Sample ID: 240-213667-12

Date Collected: 10/22/24 11:09 — **Matrix: Water**
Date Received: 10/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6010D		1	632969	RKT	EET CLE	10/29/24 12:59
Total Recoverable	Prep	3005A			632623	AJC	EET CLE	10/28/24 12:00
Total Recoverable	Analysis	6020B		1	633017	AJC	EET CLE	10/29/24 14:33
Total/NA	Analysis	9056A		1	633893	JMR	EET CLE	11/05/24 06:18
Total/NA	Analysis	SM 2540C		1	632519	TAV2	EET CLE	10/25/24 11:42

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. Job ID: 240-213667-1
Project/Site: CCR DTE MONPP-Bottom Ash Impoundment

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
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone (330) 497-9396 Phone (330) 497-0772

MICHIGAN 190

Chain of Custody Record

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Client Information	Sampler: JAVIER JASSO	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-125211-43683.2
Client Contact: Mr. Vincent Buening	Phone: 734 904 3710	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: TRC Environmental Corporation.	PWSID:	Analysis Requested		Job #:
Address: 1540 Eisenhower Place	Due Date Requested:			Preservation Codes: N - None D - HNO3
City: Ann Arbor	TAT Requested (days):			
State, Zip: MI, 48108-7080	Compliance Project: Δ Yes Δ No			
Phone: 313-971-7080(Tel) 313-971-9022(Fax)	PO #: 214277			
Email: vbuening@trccompanies.com	WO #:			
Project Name: DTE MONPP-Bottom Ash Impoundment	Project #: 24016830			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	9056A_28D - Chloride, Fluoride and Sulfate	6010B Bo, 6020 Ca	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D		
MW-14	10/22/24	0843	G	GW	N	N	X	X	X	3	
Dup #01	"	—	G	GW	N	N	X	X	X	3	
MW-15	"	1021	G	GW	N	N	X	X	X	3	
MW-7S	"	1047	G	GW	N	N	X	X	X	3	
MW-9	"	1123	G	GW	N	N	X	X	X	3	
MW-10	"	1150	G	GW	N	N	X	X	X	3	
MW-11	"	1245	G	GW	N	N	X	X	X	3	
MW-3S	10/23/24	0805	G	GW	N	N	X	X	X	3	
MW-12	"	0850	G	GW	N	N	X	X	X	3	
MW-2S	"	0930	G	GW	N	N	X	X	X	3	
MW-13	"	1017	G	GW	N	N	X	X	X	3	

240-213667 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/23/24 1300	Company: TRC	Received by: TRC	Date/Time: 10/23/24 1300	Company: TRC
Relinquished by:	Date/Time: 10/24/24 1220	Company: TRC	Received by:	Date/Time: 10/24/24	Company: EEHA
Relinquished by:	Date/Time: 10/24/24	Company: EEHA	Received by: KATHARINE MARTIN	Date/Time: 10/25/24 800	Company: EVR

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone (330) 497-9396 Phone (330) 497-0772

MICHIGAN
190

Chain of Custody Record

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Client Information	Sampler: JAVIER JASSO	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-125211-43683.2
Client Contact: Mr. Vincent Buening	Phone: 734 904 3316	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: TRC Environmental Corporation.	PWSID:			Job #:
Address: 1540 Eisenhower Place	Due Date Requested:			
City: Ann Arbor	TAT Requested (days):			
State, Zip: MI, 48108-7080	Compliance Project: Δ Yes Δ No			
Phone: 313-971-7080(Tel) 313-971-9022(Fax)	PO #: 214277			
Email: vbuening@trccompanies.com	WO #:			
Project Name: DTE MONPP-Bottom Ash Impoundment	Project #: 24016830			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	9056A_28D - Chloride, Fluoride and Sulfate	6010B Bo, 6020 Ca	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D		
MW 15	10/23/24	1109	G	GW	N	N	X	X	X	3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/23/24 1300	TRC		10/23/24 1300	TRC
2		10/24/24 1220	TRC		10/24/24	EENA
3		10/24/24	EENA	KATHARINE MARTIN	10/25/24 800	EUR

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client TRC Site Name _____ Cooler unpacked by: KM

Cooler Received on 10/25/24 Opened on 10/25/24

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: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] See Multiple Cooler Form

IR GUN # 17 (CF +0.1 °C) Observed Cooler Temp _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-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)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	Yes	(No)
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	(Y)	(Y) (Y)
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	Yes	(No)
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# HC447997
14. Were VOAs on the COC?	Yes	(No)
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)
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

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

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

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 _____

Login # : ______

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
(EC circled) Client Box Other	IR GUN #: 17	1.4	1.5	(Wet Ice circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:	1.2	1.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

10/25/2024

Login Container Summary Report

240-213667

11/8/2024

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
MW-14	240-213667-A-1	Plastic 125mL - unpreserved				
MW-14	240-213667-B-1	Plastic 500ml - unpreserved				
MW-14	240-213667-C-1	Plastic 500ml - with Nitric Acid	<2			
MW-01	240-213667-A-2	Plastic 125mL - unpreserved				
MW-01	240-213667-B-2	Plastic 500ml - unpreserved				
MW-01	240-213667-C-2	Plastic 500ml - with Nitric Acid	<2			
MW-15	240-213667-A-3	Plastic 125mL - unpreserved				
MW-15	240-213667-B-3	Plastic 500ml - unpreserved				
MW-15	240-213667-C-3	Plastic 500ml - with Nitric Acid	<2			
MW-7S	240-213667-A-4	Plastic 125mL - unpreserved				
MW-7S	240-213667-B-4	Plastic 500ml - unpreserved				
MW-7S	240-213667-C-4	Plastic 500ml - with Nitric Acid	<2			
MW-9	240-213667-A-5	Plastic 125mL - unpreserved				
MW-9	240-213667-B-5	Plastic 500ml - unpreserved				
MW-9	240-213667-C-5	Plastic 500ml - with Nitric Acid	<2			
MW-10	240-213667-A-6	Plastic 125mL - unpreserved				
MW-10	240-213667-B-6	Plastic 500ml - unpreserved				
MW-10	240-213667-C-6	Plastic 500ml - with Nitric Acid	<2			
MW-11	240-213667-A-7	Plastic 125mL - unpreserved				
MW-11	240-213667-B-7	Plastic 500ml - unpreserved				
MW-11	240-213667-C-7	Plastic 500ml - with Nitric Acid	<2			
MW-3S	240-213667-A-8	Plastic 125 mL oblong - unpreserved				
MW-3S	240-213667-B-8	Plastic 500ml - unpreserved				
MW-3S	240-213667-C-8	Plastic 500ml - with Nitric Acid	<2			
MW-3S	240-213667-D-8	Plastic 500ml - with Nitric Acid	<2			
MW-12	240-213667-A-9	Plastic 125mL - unpreserved				
MW-12	240-213667-B-9	Plastic 500ml - unpreserved				
MW-12	240-213667-C-9	Plastic 500ml - with Nitric Acid	<2			
MW-2S	240-213667-A-10	Plastic 125mL - unpreserved				
MW-2S	240-213667-B-10	Plastic 500ml - unpreserved				
MW-2S	240-213667-C-10	Plastic 500ml - with Nitric Acid	<2			
MW-13	240-213667-A-11	Plastic 125mL - unpreserved				
MW-13	240-213667-B-11	Plastic 500ml - unpreserved				
MW-13	240-213667-C-11	Plastic 500ml - with Nitric Acid	<2			
MW-1S	240-213667-A-12	Plastic 125mL - unpreserved				

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
MW-1S	240-213667-B-12	Plastic 500ml - unpreserved				
MW-1S	240-213667-C-12	Plastic 500ml - with Nitric Acid	<2			

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/2/2025 11:22:09 AM Revision 2

JOB DESCRIPTION

CCR DTE MONPP Bottom Ash Impoundment

JOB NUMBER

240-216227-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

myEOL

Job Notes

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

Authorization

Generated
1/2/2025 11:22:09 AM
Revision 2

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

Table of Contents

Definitions/Glossary

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

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

Job ID: 240-216227-1 Eurofins Cleveland

Job Narrative
240-216227-1

REVISION

The report being provided is a revision of the original report sent on 12/12/2024. The report (revision 2) is being revised due to chloride and sulfate were not requested for sample MW-15 and DUP-03.

Report revision history
Revision 1 - 12/27/2024 - Reason - sample DUP-01 switched between jobs 240-216226 and 240-216227.

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 12/7/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°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.

Method Summary

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

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.
Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-216227-1	MW-2S	Water	12/05/24 14:20	12/07/24 08:00
240-216227-2	MW-14	Water	12/05/24 15:08	12/07/24 08:00
240-216227-3	MW-15	Water	12/05/24 12:57	12/07/24 08:00
240-216227-4	DUP-01	Water	12/05/24 00:00	12/07/24 08:00
240-216227-5	DUP-02	Water	12/05/24 00:00	12/07/24 08:00
240-216227-6	DUP-03	Water	12/05/24 00:00	12/07/24 08:00

Detection Summary

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Client Sample ID: MW-2S — Lab Sample ID: 240-216227-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100		ug/L	1		6010D	Total Recoverable

Client Sample ID: MW-14 — Lab Sample ID: 240-216227-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	310000		1000		ug/L	1		6020B	Total Recoverable

Client Sample ID: MW-15 — Lab Sample ID: 240-216227-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	590		10		mg/L	1		2540 C-2020	Total/NA
Fluoride	0.47		0.050		mg/L	1		9056A	Total/NA

Client Sample ID: DUP-01 — Lab Sample ID: 240-216227-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100		ug/L	1		6010D	Total Recoverable

Client Sample ID: DUP-02 — Lab Sample ID: 240-216227-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	290000		1000		ug/L	1		6020B	Total Recoverable

Client Sample ID: DUP-03 — Lab Sample ID: 240-216227-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	590		10		mg/L	1		2540 C-2020	Total/NA
Fluoride	0.47		0.050		mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Client Sample ID: MW-2S **Lab Sample ID: 240-216227-1**
Date Collected: 12/05/24 14:20 **Matrix: Water**
Date Received: 12/07/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100		ug/L		12/09/24 14:00	12/11/24 11:09	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Client Sample ID: MW-14 **Lab Sample ID: 240-216227-2**
Date Collected: 12/05/24 15:08 **Matrix: Water**
Date Received: 12/07/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310000		1000		ug/L		12/09/24 14:00	12/10/24 23:42	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Client Sample ID: MW-15
Date Collected: 12/05/24 12:57
Date Received: 12/07/24 08:00

Lab Sample ID: 240-216227-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	590		10		mg/L			12/11/24 10:33	1
Fluoride (SW846 9056A)	0.47		0.050		mg/L			12/10/24 03:52	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Client Sample ID: DUP-01
Date Collected: 12/05/24 00:00
Date Received: 12/07/24 08:00

Lab Sample ID: 240-216227-4
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100		ug/L		12/09/24 14:00	12/11/24 11:05	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Client Sample ID: DUP-02 **Lab Sample ID: 240-216227-5**
Date Collected: 12/05/24 00:00 **Matrix: Water**
Date Received: 12/07/24 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290000		1000		ug/L		12/10/24 14:00	12/11/24 13:52	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Client Sample ID: DUP-03
Date Collected: 12/05/24 00:00
Date Received: 12/07/24 08:00

Lab Sample ID: 240-216227-6
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	590		10		mg/L			12/11/24 10:33	1
Fluoride (SW846 9056A)	0.47		0.050		mg/L			12/10/24 04:34	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-638081/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 638476 — **Prep Batch: 638081**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100		ug/L		12/09/24 14:00	12/11/24 09:08	1

Lab Sample ID: LCS 240-638081/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 638476 — **Prep Batch: 638081**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1000	1060		ug/L		106	80 - 120		

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-638086/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 638317 — **Prep Batch: 638086**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000		ug/L		12/09/24 14:00	12/10/24 22:31	1

Lab Sample ID: LCS 240-638086/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 638317 — **Prep Batch: 638086**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			25000	25200		ug/L		101	80 - 120		

Lab Sample ID: MB 240-638205/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 638439 — **Prep Batch: 638205**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000		ug/L		12/10/24 14:00	12/11/24 11:57	1

Lab Sample ID: LCS 240-638205/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 638439 — **Prep Batch: 638205**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			25000	24500		ug/L		98	80 - 120		

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

Lab Sample ID: MB 240-638381/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 638381

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10		mg/L			12/11/24 10:33	1

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

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

Lab Sample ID: LCS 240-638381/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 638381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	242	230		mg/L		95	80 - 120

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-638142/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 638142

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.050	U	0.050		mg/L			12/09/24 18:42	1

Lab Sample ID: LCS 240-638142/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 638142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	2.50	2.47		mg/L		99	90 - 110

QC Association Summary

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Metals

Prep Batch: 638081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216227-1	MW-2S	Total Recoverable	Water	3005A	
240-216227-4	DUP-01	Total Recoverable	Water	3005A	
MB 240-638081/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-638081/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 638086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216227-2	MW-14	Total Recoverable	Water	3005A	
MB 240-638086/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-638086/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 638205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216227-5	DUP-02	Total Recoverable	Water	3005A	
MB 240-638205/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-638205/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 638317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216227-2	MW-14	Total Recoverable	Water	6020B	638086
MB 240-638086/1-A	Method Blank	Total Recoverable	Water	6020B	638086
LCS 240-638086/2-A	Lab Control Sample	Total Recoverable	Water	6020B	638086

Analysis Batch: 638439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216227-5	DUP-02	Total Recoverable	Water	6020B	638205
MB 240-638205/1-A	Method Blank	Total Recoverable	Water	6020B	638205
LCS 240-638205/2-A	Lab Control Sample	Total Recoverable	Water	6020B	638205

Analysis Batch: 638476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216227-1	MW-2S	Total Recoverable	Water	6010D	638081
240-216227-4	DUP-01	Total Recoverable	Water	6010D	638081
MB 240-638081/1-A	Method Blank	Total Recoverable	Water	6010D	638081
LCS 240-638081/2-A	Lab Control Sample	Total Recoverable	Water	6010D	638081

General Chemistry

Analysis Batch: 638142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216227-3	MW-15	Total/NA	Water	9056A	
240-216227-6	DUP-03	Total/NA	Water	9056A	
MB 240-638142/3	Method Blank	Total/NA	Water	9056A	
LCS 240-638142/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 638381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216227-3	MW-15	Total/NA	Water	2540 C-2020	
240-216227-6	DUP-03	Total/NA	Water	2540 C-2020	
MB 240-638381/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-638381/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

Client Sample ID: MW-2S — Lab Sample ID: 240-216227-1
Date Collected: 12/05/24 14:20 — **Matrix: Water**
Date Received: 12/07/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			638081	BN	EET CLE	12/09/24 14:00
Total Recoverable	Analysis	6010D		1	638476	RKT	EET CLE	12/11/24 11:09

Client Sample ID: MW-14 — Lab Sample ID: 240-216227-2
Date Collected: 12/05/24 15:08 — **Matrix: Water**
Date Received: 12/07/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			638086	BN	EET CLE	12/09/24 14:00
Total Recoverable	Analysis	6020B		1	638317	AJC	EET CLE	12/10/24 23:42

Client Sample ID: MW-15 — Lab Sample ID: 240-216227-3
Date Collected: 12/05/24 12:57 — **Matrix: Water**
Date Received: 12/07/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540 C-2020		1	638381	PQD2	EET CLE	12/11/24 10:33
Total/NA	Analysis	9056A		1	638142	JMR	EET CLE	12/10/24 03:52

Client Sample ID: DUP-01 — Lab Sample ID: 240-216227-4
Date Collected: 12/05/24 00:00 — **Matrix: Water**
Date Received: 12/07/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			638081	BN	EET CLE	12/09/24 14:00
Total Recoverable	Analysis	6010D		1	638476	RKT	EET CLE	12/11/24 11:05

Client Sample ID: DUP-02 — Lab Sample ID: 240-216227-5
Date Collected: 12/05/24 00:00 — **Matrix: Water**
Date Received: 12/07/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			638205	GK	EET CLE	12/10/24 14:00
Total Recoverable	Analysis	6020B		1	638439	AJC	EET CLE	12/11/24 13:52

Client Sample ID: DUP-03 — Lab Sample ID: 240-216227-6
Date Collected: 12/05/24 00:00 — **Matrix: Water**
Date Received: 12/07/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540 C-2020		1	638381	PQD2	EET CLE	12/11/24 10:33
Total/NA	Analysis	9056A		1	638142	JMR	EET CLE	12/10/24 04:34

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. Job ID: 240-216227-1
Project/Site: CCR DTE MONPP Bottom Ash Impoundment

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
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
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	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24
Wisconsin	State	399167560	08-31-25

Eurofins Canton
180 S. Van Buren Ave

Barberton, OH 44203-3543
phone 330.497.9396 fax 330.497.0772

MICHIGAN
190

Chain of Custody Record

eurofins | Environment Testing America

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

Eurofins Environment Testing America

Client Contact	**Project Manager: Vincent Buening**		COC No:
TRC Companies	Email: Vbuening@trccompanies.com	Site Contact:	Date: 12-5-24 — 1 of 1 COCs
1540 Eisenhower Place	Tel/Fax: 934-904-3302	Lab Contact: Kris Brooks	Carrier: — TALS Project #:
Ann Arbor Michigan, 48108	**Analysis Turnaround Time**		Sampler: A. Whaley
734-971-7080 Phone	☐ CALENDAR DAYS ☑ WORKING DAYS		**For Lab Use Only:**
NA	TAT if different from Below ~~5 Days~~		Walk-in Client:
Project Name: DTE CCR MONPP Bottom Ash Impoundment	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day — 3 Days		Lab Sampling:
Site: Michigan			Job / SDG No.:
P O # 214277			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	6010B Total Boron	6020 Total Calcium	9056A_28D Fluoride	2540C_Calcd - TDS	Sample Specific Notes:
MW-2S	12-5-24	14:20	G	GW	1	N	N	X				
MW-14		15:08	G	GW	1	N	N		X			
MW-15		12:57	G	GW	2	N	N			X	X	
DUP-01		—	G	GW	1	N	N	X				
DUP-02		—	G	GW	1	N	N		X			
DUP-03		—	G	GW	2	N	N			X	X	
								4	4	1	1	

240-216227 COC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: TRC EDD Required

Custody Seals Intact: ☐ Yes ☐ No — Custody Seal No.: — Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ — Therm ID No.: _____

Relinquished by:	Company: TRC	Date/Time: 12-6-24 13:35	Received by:	Company: EEtA	Date/Time: 12/6/24
Relinquished by:	Company: EEtA	Date/Time: 12/6/24	Received by:	Company: Eurofins	Date/Time: 12/7/24 800
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client TRC Site Name _____ Cooler unpacked by: TF

Cooler Received on 12/7/24 Opened on 12/7/24

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

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

Eurofins Cooler # 20 Foam Box Client Cooler Box Other _____

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

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt +0.2 ☐ See Multiple Cooler Form

IR GUN # 421 (CF +0.1 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 2.8 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No	**Tests that are not checked for pH by Receiving:** VOAs, Oil and Grease, TOC
-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)	
-Were tamper/custody seals intact and uncompromised?	Yes No (NA)	
3 Shippers' packing slip attached to the cooler(s)?	Yes (No)	
4 Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes No	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes (No)	
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12 Are these work share samples and all listed on the COC?	Yes (No)	
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# HC~~448976~~ 452408
14 Were VOAs on the COC?	Yes (No)	
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)	
17 Was a LL Hg or Me Hg trip blank present? _____	Yes (No)	

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

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) Dup-02 were further preserved in the laboratory

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

VOA Sample Preservation - Date/Time VOAs Frozen _____

12/7/2024

Login Container Summary Report

240-216227

1/2/2025 (Rev. 2)

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
MW-2S	240-216227-A-1	Plastic 250ml - with Nitric Acid	<2			
MW-14	240-216227-A-2	Plastic 250ml - with Nitric Acid	<2			
MW-15	240-216227-A-3	Plastic 60 mL - unpreserved				
MW-15	240-216227-B-3	Plastic 500ml - unpreserved				
DUP-01	240-216227-A-4	Plastic 250ml - with Nitric Acid	<2			
DUP-02	240-216227-A-5	Plastic 250ml - with Nitric Acid	>2			
DUP-03	240-216227-A-6	Plastic 60 mL - unpreserved				
DUP-03	240-216227-B-6	Plastic 500ml - unpreserved				

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/14/2025 2:10:05 PM

JOB DESCRIPTION

CCR DTE MNPP-Bottom Ash Impoundment

JOB NUMBER

240-223387-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

Job Notes

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

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

Authorization

Generated
5/14/2025 2:10:05 PM

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

Table of Contents

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

Job ID: 240-223387-1 Eurofins Cleveland

Job Narrative
240-223387-1

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 5/1/2025 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 4 coolers at receipt time were 2.2°C, 2.3°C, 2.6°C and 2.7°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.

Method Summary

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

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.
Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-223387-1	MW-3S	Water	04/29/25 09:06	05/01/25 08:00
240-223387-2	MW-11	Water	04/29/25 09:58	05/01/25 08:00
240-223387-3	MW-12	Water	04/29/25 10:43	05/01/25 08:00
240-223387-4	MW-14	Water	04/29/25 12:22	05/01/25 08:00
240-223387-5	MW-01S	Water	04/29/25 09:07	05/01/25 08:00
240-223387-6	MW-02S	Water	04/29/25 11:26	05/01/25 08:00
240-223387-7	MW-13	Water	04/29/25 10:23	05/01/25 08:00
240-223387-8	MW-15	Water	04/29/25 12:37	05/01/25 08:00
240-223387-9	MW-7S	Water	04/29/25 12:20	05/01/25 08:00
240-223387-10	MW-9	Water	04/29/25 11:10	05/01/25 08:00
240-223387-11	MW-10	Water	04/29/25 10:30	05/01/25 08:00
240-223387-12	DUP-01	Water	04/29/25 00:00	05/01/25 08:00

Detection Summary

Client: TRC Environmental Corporation.
Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-3S
Lab Sample ID: 240-223387-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	820		100		ug/L	1		6010D	Total Recoverable
Calcium	280000		1000		ug/L	1		6020B	Total Recoverable
Iron	11000		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1700		20		mg/L	1		2540 C-2020	Total/NA
Chloride	15		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.79		0.050		mg/L	1		9056A	Total/NA
Sulfate	1200		10		mg/L	10		9056A	Total/NA

Client Sample ID: MW-11
Lab Sample ID: 240-223387-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	930		100		ug/L	1		6010D	Total Recoverable
Calcium	260000		1000		ug/L	1		6020B	Total Recoverable
Iron	1900		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	2000		20		mg/L	1		2540 C-2020	Total/NA
Chloride	16		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.93		0.050		mg/L	1		9056A	Total/NA
Sulfate	1400		10		mg/L	10		9056A	Total/NA

Client Sample ID: MW-12
Lab Sample ID: 240-223387-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100		ug/L	1		6010D	Total Recoverable
Calcium	200000		1000		ug/L	1		6020B	Total Recoverable
Iron	1400		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1700		20		mg/L	1		2540 C-2020	Total/NA
Chloride	10		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.83		0.050		mg/L	1		9056A	Total/NA
Sulfate	1200		10		mg/L	10		9056A	Total/NA

Client Sample ID: MW-14
Lab Sample ID: 240-223387-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1500		100		ug/L	1		6010D	Total Recoverable
Calcium	290000		1000		ug/L	1		6020B	Total Recoverable
Iron	6300		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1600		20		mg/L	1		2540 C-2020	Total/NA
Chloride	240		10		mg/L	10		9056A	Total/NA
Fluoride	0.29		0.050		mg/L	1		9056A	Total/NA
Sulfate	460		10		mg/L	10		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-01S — Lab Sample ID: 240-223387-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	500		100		ug/L	1		6010D	Total Recoverable
Calcium	210000		1000		ug/L	1		6020B	Total Recoverable
Iron	620		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	880		10		mg/L	1		2540 C-2020	Total/NA
Chloride	75		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.20		0.050		mg/L	1		9056A	Total/NA
Sulfate	110		1.0		mg/L	1		9056A	Total/NA

Client Sample ID: MW-02S — Lab Sample ID: 240-223387-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100		ug/L	1		6010D	Total Recoverable
Calcium	260000		1000		ug/L	1		6020B	Total Recoverable
Iron	3100		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	1800		20		mg/L	1		2540 C-2020	Total/NA
Chloride	11		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.69		0.050		mg/L	1		9056A	Total/NA
Sulfate	1300		10		mg/L	10		9056A	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 240-223387-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	120000		1000		ug/L	1		6020B	Total Recoverable
Iron	9400		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	520		10		mg/L	1		2540 C-2020	Total/NA
Chloride	100		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.38		0.050		mg/L	1		9056A	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 240-223387-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	2300		100		ug/L	1		6010D	Total Recoverable
Calcium	130000		1000		ug/L	1		6020B	Total Recoverable
Iron	8400		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	640		10		mg/L	1		2540 C-2020	Total/NA
Chloride	110		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.55		0.050		mg/L	1		9056A	Total/NA

Client Sample ID: MW-7S — Lab Sample ID: 240-223387-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	400		100		ug/L	1		6010D	Total Recoverable
Calcium	400000		1000		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-7S (Continued) — Lab Sample ID: 240-223387-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Iron	1500		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	2000		20		mg/L	1		2540 C-2020	Total/NA
Chloride	23		1.0		mg/L	1		9056A	Total/NA
Fluoride	1.6		0.050		mg/L	1		9056A	Total/NA
Sulfate	1300		10		mg/L	10		9056A	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 240-223387-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	630		100		ug/L	1		6010D	Total Recoverable
Calcium	190000		1000		ug/L	1		6020B	Total Recoverable
Iron	3500		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	840		10		mg/L	1		2540 C-2020	Total/NA
Chloride	79		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.45		0.050		mg/L	1		9056A	Total/NA
Sulfate	4.9		1.0		mg/L	1		9056A	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 240-223387-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	560		100		ug/L	1		6010D	Total Recoverable
Calcium	180000		1000		ug/L	1		6020B	Total Recoverable
Iron	650		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	820		10		mg/L	1		2540 C-2020	Total/NA
Chloride	66		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.43		0.050		mg/L	1		9056A	Total/NA
Sulfate	5.3		1.0		mg/L	1		9056A	Total/NA

Client Sample ID: DUP-01 — Lab Sample ID: 240-223387-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Boron	2300		100		ug/L	1		6010D	Total Recoverable
Calcium	140000		1000		ug/L	1		6020B	Total Recoverable
Iron	8800		100		ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	680		10		mg/L	1		2540 C-2020	Total/NA
Chloride	110		1.0		mg/L	1		9056A	Total/NA
Fluoride	0.41		0.050		mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-3S
Date Collected: 04/29/25 09:06
Date Received: 05/01/25 08:00

Lab Sample ID: 240-223387-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	820		100		ug/L		05/01/25 14:00	05/03/25 07:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280000		1000		ug/L		05/01/25 14:00	05/02/25 14:47	1
Iron	11000		100		ug/L		05/01/25 14:00	05/02/25 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1700		20		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	15		1.0		mg/L			05/09/25 10:13	1
Fluoride (SW846 9056A)	0.79		0.050		mg/L			05/09/25 10:13	1
Sulfate (SW846 9056A)	1200		10		mg/L			05/12/25 16:19	10

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-11 — Lab Sample ID: 240-223387-2

Date Collected: 04/29/25 09:58 — **Matrix: Water**
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	930		100		ug/L		05/01/25 14:00	05/03/25 07:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260000		1000		ug/L		05/01/25 14:00	05/02/25 14:50	1
Iron	1900		100		ug/L		05/01/25 14:00	05/02/25 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	2000		20		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	16		1.0		mg/L			05/09/25 11:38	1
Fluoride (SW846 9056A)	0.93		0.050		mg/L			05/09/25 11:38	1
Sulfate (SW846 9056A)	1400		10		mg/L			05/09/25 11:59	10

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-12 — Lab Sample ID: 240-223387-3

Date Collected: 04/29/25 10:43 — **Matrix: Water**
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100		ug/L		05/01/25 14:00	05/03/25 07:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200000		1000		ug/L		05/01/25 14:00	05/02/25 14:52	1
Iron	1400		100		ug/L		05/01/25 14:00	05/02/25 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1700		20		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	10		1.0		mg/L			05/09/25 12:20	1
Fluoride (SW846 9056A)	0.83		0.050		mg/L			05/09/25 12:20	1
Sulfate (SW846 9056A)	1200		10		mg/L			05/12/25 16:28	10

Client: TRC Environmental Corporation.
Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-14
Lab Sample ID: 240-223387-4
Date Collected: 04/29/25 12:22
Matrix: Water
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1500		100		ug/L		05/01/25 14:00	05/03/25 07:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290000		1000		ug/L		05/01/25 14:00	05/02/25 14:55	1
Iron	6300		100		ug/L		05/01/25 14:00	05/02/25 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1600		20		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	240		10		mg/L			05/09/25 13:24	10
Fluoride (SW846 9056A)	0.29		0.050		mg/L			05/09/25 13:03	1
Sulfate (SW846 9056A)	460		10		mg/L			05/09/25 13:24	10

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-01S
Lab Sample ID: 240-223387-5

Date Collected: 04/29/25 09:07
Matrix: Water
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	500		100		ug/L		05/01/25 14:00	05/03/25 07:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210000		1000		ug/L		05/01/25 14:00	05/02/25 14:57	1
Iron	620		100		ug/L		05/01/25 14:00	05/02/25 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	880		10		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	75		1.0		mg/L			05/09/25 13:45	1
Fluoride (SW846 9056A)	0.20		0.050		mg/L			05/09/25 13:45	1
Sulfate (SW846 9056A)	110		1.0		mg/L			05/09/25 13:45	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-02S
Lab Sample ID: 240-223387-6

Date Collected: 04/29/25 11:26
Matrix: Water
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100		ug/L		05/01/25 14:00	05/03/25 07:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260000		1000		ug/L		05/01/25 14:00	05/02/25 15:00	1
Iron	3100		100		ug/L		05/01/25 14:00	05/02/25 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	1800		20		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	11		1.0		mg/L			05/09/25 14:27	1
Fluoride (SW846 9056A)	0.69		0.050		mg/L			05/09/25 14:27	1
Sulfate (SW846 9056A)	1300		10		mg/L			05/09/25 15:31	10

Client: TRC Environmental Corporation.
Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-13
Lab Sample ID: 240-223387-7
Date Collected: 04/29/25 10:23
Matrix: Water
Date Received: 05/01/25 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		05/01/25 14:00	05/03/25 07:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120000**		1000		ug/L		05/01/25 14:00	05/02/25 15:07	1
Iron	**9400**		100		ug/L		05/01/25 14:00	05/02/25 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	**520**		10		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	**100**		1.0		mg/L			05/09/25 15:52	1
Fluoride (SW846 9056A)	**0.38**		0.050		mg/L			05/09/25 15:52	1
Sulfate (SW846 9056A)	1.0	U	1.0		mg/L			05/09/25 15:52	1

Client: TRC Environmental Corporation.
Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-15
Lab Sample ID: 240-223387-8
Date Collected: 04/29/25 12:37
Matrix: Water
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	2300		100		ug/L		05/01/25 14:00	05/03/25 07:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		1000		ug/L		05/01/25 14:00	05/02/25 15:10	1
Iron	8400		100		ug/L		05/01/25 14:00	05/02/25 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	640		10		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	110		1.0		mg/L			05/09/25 21:10	1
Fluoride (SW846 9056A)	0.55		0.050		mg/L			05/09/25 21:10	1
Sulfate (SW846 9056A)	1.0	U	1.0		mg/L			05/09/25 21:10	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-7S
Lab Sample ID: 240-223387-9

Date Collected: 04/29/25 12:20
Matrix: Water
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	400		100		ug/L		05/01/25 14:00	05/03/25 07:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400000		1000		ug/L		05/01/25 14:00	05/02/25 15:12	1
Iron	1500		100		ug/L		05/01/25 14:00	05/02/25 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	2000		20		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	23		1.0		mg/L			05/09/25 21:53	1
Fluoride (SW846 9056A)	1.6		0.050		mg/L			05/09/25 21:53	1
Sulfate (SW846 9056A)	1300		10		mg/L			05/09/25 22:14	10

Client: TRC Environmental Corporation.
Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-9
Lab Sample ID: 240-223387-10
Date Collected: 04/29/25 11:10
Matrix: Water
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	630		100		ug/L		05/01/25 14:00	05/03/25 07:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190000		1000		ug/L		05/01/25 14:00	05/02/25 15:15	1
Iron	3500		100		ug/L		05/01/25 14:00	05/02/25 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	840		10		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	79		1.0		mg/L			05/09/25 22:35	1
Fluoride (SW846 9056A)	0.45		0.050		mg/L			05/09/25 22:35	1
Sulfate (SW846 9056A)	4.9		1.0		mg/L			05/09/25 22:35	1

Client: TRC Environmental Corporation.
Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-10
Lab Sample ID: 240-223387-11
Date Collected: 04/29/25 10:30
Matrix: Water
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	560		100		ug/L		05/01/25 14:00	05/03/25 08:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	180000		1000		ug/L		05/01/25 14:00	05/02/25 15:18	1
Iron	650		100		ug/L		05/01/25 14:00	05/02/25 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	820		10		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	66		1.0		mg/L			05/10/25 00:00	1
Fluoride (SW846 9056A)	0.43		0.050		mg/L			05/10/25 00:00	1
Sulfate (SW846 9056A)	5.3		1.0		mg/L			05/10/25 00:00	1

Client: TRC Environmental Corporation.
Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: DUP-01
Lab Sample ID: 240-223387-12
Date Collected: 04/29/25 00:00
Matrix: Water
Date Received: 05/01/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	2300		100		ug/L		05/01/25 14:00	05/03/25 08:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140000		1000		ug/L		05/01/25 14:00	05/02/25 15:20	1
Iron	8800		100		ug/L		05/01/25 14:00	05/02/25 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	680		10		mg/L			05/02/25 12:09	1
Chloride (SW846 9056A)	110		1.0		mg/L			05/10/25 00:42	1
Fluoride (SW846 9056A)	0.41		0.050		mg/L			05/10/25 00:42	1
Sulfate (SW846 9056A)	1.0	U	1.0		mg/L			05/10/25 00:42	1

Client: TRC Environmental Corporation.
Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-654387/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 654662
Prep Batch: 654387

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100		ug/L		05/01/25 14:00	05/03/25 05:55	1

Lab Sample ID: LCS 240-654387/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 654662
Prep Batch: 654387

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1000	977		ug/L		98	80 - 120		

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-654387/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 654666
Prep Batch: 654387

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000		ug/L		05/01/25 14:00	05/02/25 14:08	1
Iron	100	U	100		ug/L		05/01/25 14:00	05/02/25 14:08	1

Lab Sample ID: LCS 240-654387/3-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 654666
Prep Batch: 654387

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			25000	23700		ug/L		95	80 - 120		
Iron			5000	4830		ug/L		97	80 - 120		

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

Lab Sample ID: MB 240-654561/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 654561

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10		mg/L			05/02/25 12:09	1

Lab Sample ID: LCS 240-654561/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 654561

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			176	160		mg/L		91	80 - 120		

Lab Sample ID: 240-223387-5 DU
Client Sample ID: MW-01S
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 654561

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	880			903		mg/L				3	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-655322/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 655322

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0		mg/L			05/09/25 07:02	1
Fluoride	0.050	U	0.050		mg/L			05/09/25 07:02	1
Sulfate	1.0	U	1.0		mg/L			05/09/25 07:02	1

Lab Sample ID: LCS 240-655322/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 655322

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.0	50.7		mg/L		101	90 - 110		
Fluoride			2.50	2.64		mg/L		106	90 - 110		
Sulfate			50.0	52.2		mg/L		104	90 - 110		

Lab Sample ID: MB 240-655748/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 655748

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.050	U	0.050		mg/L			05/12/25 15:30	1
Sulfate	1.0	U	1.0		mg/L			05/12/25 15:30	1

Lab Sample ID: LCS 240-655748/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 655748

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			2.50	2.51		mg/L		100	90 - 110		
Sulfate			50.0	49.6		mg/L		99	90 - 110		

Metals

Prep Batch: 654387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223387-1	MW-3S	Total Recoverable	Water	3005A	
240-223387-2	MW-11	Total Recoverable	Water	3005A	
240-223387-3	MW-12	Total Recoverable	Water	3005A	
240-223387-4	MW-14	Total Recoverable	Water	3005A	
240-223387-5	MW-01S	Total Recoverable	Water	3005A	
240-223387-6	MW-02S	Total Recoverable	Water	3005A	
240-223387-7	MW-13	Total Recoverable	Water	3005A	
240-223387-8	MW-15	Total Recoverable	Water	3005A	
240-223387-9	MW-7S	Total Recoverable	Water	3005A	
240-223387-10	MW-9	Total Recoverable	Water	3005A	
240-223387-11	MW-10	Total Recoverable	Water	3005A	
240-223387-12	DUP-01	Total Recoverable	Water	3005A	
MB 240-654387/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-654387/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-654387/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 654662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223387-1	MW-3S	Total Recoverable	Water	6010D	654387
240-223387-2	MW-11	Total Recoverable	Water	6010D	654387
240-223387-3	MW-12	Total Recoverable	Water	6010D	654387
240-223387-4	MW-14	Total Recoverable	Water	6010D	654387
240-223387-5	MW-01S	Total Recoverable	Water	6010D	654387
240-223387-6	MW-02S	Total Recoverable	Water	6010D	654387
240-223387-7	MW-13	Total Recoverable	Water	6010D	654387
240-223387-8	MW-15	Total Recoverable	Water	6010D	654387
240-223387-9	MW-7S	Total Recoverable	Water	6010D	654387
240-223387-10	MW-9	Total Recoverable	Water	6010D	654387
240-223387-11	MW-10	Total Recoverable	Water	6010D	654387
240-223387-12	DUP-01	Total Recoverable	Water	6010D	654387
MB 240-654387/1-A	Method Blank	Total Recoverable	Water	6010D	654387
LCS 240-654387/2-A	Lab Control Sample	Total Recoverable	Water	6010D	654387

Analysis Batch: 654666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223387-1	MW-3S	Total Recoverable	Water	6020B	654387
240-223387-2	MW-11	Total Recoverable	Water	6020B	654387
240-223387-3	MW-12	Total Recoverable	Water	6020B	654387
240-223387-4	MW-14	Total Recoverable	Water	6020B	654387
240-223387-5	MW-01S	Total Recoverable	Water	6020B	654387
240-223387-6	MW-02S	Total Recoverable	Water	6020B	654387
240-223387-7	MW-13	Total Recoverable	Water	6020B	654387
240-223387-8	MW-15	Total Recoverable	Water	6020B	654387
240-223387-9	MW-7S	Total Recoverable	Water	6020B	654387
240-223387-10	MW-9	Total Recoverable	Water	6020B	654387
240-223387-11	MW-10	Total Recoverable	Water	6020B	654387
240-223387-12	DUP-01	Total Recoverable	Water	6020B	654387
MB 240-654387/1-A	Method Blank	Total Recoverable	Water	6020B	654387
LCS 240-654387/3-A	Lab Control Sample	Total Recoverable	Water	6020B	654387

General Chemistry

Analysis Batch: 654561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223387-1	MW-3S	Total/NA	Water	2540 C-2020	
240-223387-2	MW-11	Total/NA	Water	2540 C-2020	
240-223387-3	MW-12	Total/NA	Water	2540 C-2020	
240-223387-4	MW-14	Total/NA	Water	2540 C-2020	
240-223387-5	MW-01S	Total/NA	Water	2540 C-2020	
240-223387-6	MW-02S	Total/NA	Water	2540 C-2020	
240-223387-7	MW-13	Total/NA	Water	2540 C-2020	
240-223387-8	MW-15	Total/NA	Water	2540 C-2020	
240-223387-9	MW-7S	Total/NA	Water	2540 C-2020	
240-223387-10	MW-9	Total/NA	Water	2540 C-2020	
240-223387-11	MW-10	Total/NA	Water	2540 C-2020	
240-223387-12	DUP-01	Total/NA	Water	2540 C-2020	
MB 240-654561/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-654561/2	Lab Control Sample	Total/NA	Water	2540 C-2020	
240-223387-5 DU	MW-01S	Total/NA	Water	2540 C-2020	

Analysis Batch: 655322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223387-1	MW-3S	Total/NA	Water	9056A	
240-223387-2	MW-11	Total/NA	Water	9056A	
240-223387-2	MW-11	Total/NA	Water	9056A	
240-223387-3	MW-12	Total/NA	Water	9056A	
240-223387-4	MW-14	Total/NA	Water	9056A	
240-223387-4	MW-14	Total/NA	Water	9056A	
240-223387-5	MW-01S	Total/NA	Water	9056A	
240-223387-6	MW-02S	Total/NA	Water	9056A	
240-223387-6	MW-02S	Total/NA	Water	9056A	
240-223387-7	MW-13	Total/NA	Water	9056A	
240-223387-8	MW-15	Total/NA	Water	9056A	
240-223387-9	MW-7S	Total/NA	Water	9056A	
240-223387-9	MW-7S	Total/NA	Water	9056A	
240-223387-10	MW-9	Total/NA	Water	9056A	
240-223387-11	MW-10	Total/NA	Water	9056A	
240-223387-12	DUP-01	Total/NA	Water	9056A	
MB 240-655322/3	Method Blank	Total/NA	Water	9056A	
LCS 240-655322/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 655748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223387-1	MW-3S	Total/NA	Water	9056A	
240-223387-3	MW-12	Total/NA	Water	9056A	
MB 240-655748/3	Method Blank	Total/NA	Water	9056A	
LCS 240-655748/4	Lab Control Sample	Total/NA	Water	9056A	

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: MW-3S
Lab Sample ID: 240-223387-1
Date Collected: 04/29/25 09:06
Matrix: Water
Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:07
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 14:47
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		10	655748	JMR	EET CLE	05/12/25 16:19
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 10:13

Client Sample ID: MW-11
Lab Sample ID: 240-223387-2
Date Collected: 04/29/25 09:58
Matrix: Water
Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:11
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 14:50
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 11:38
Total/NA	Analysis	9056A		10	655322	JMR	EET CLE	05/09/25 11:59

Client Sample ID: MW-12
Lab Sample ID: 240-223387-3
Date Collected: 04/29/25 10:43
Matrix: Water
Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:16
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 14:52
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		10	655748	JMR	EET CLE	05/12/25 16:28
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 12:20

Client Sample ID: MW-14
Lab Sample ID: 240-223387-4
Date Collected: 04/29/25 12:22
Matrix: Water
Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:21
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 14:55
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09

Client Sample ID: MW-14 — Lab Sample ID: 240-223387-4

Date Collected: 04/29/25 12:22 — **Matrix: Water**
Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 13:03
Total/NA	Analysis	9056A		10	655322	JMR	EET CLE	05/09/25 13:24

Client Sample ID: MW-01S — Lab Sample ID: 240-223387-5

Date Collected: 04/29/25 09:07 — **Matrix: Water**
Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:25
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 14:57
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 13:45

Client Sample ID: MW-02S — Lab Sample ID: 240-223387-6

Date Collected: 04/29/25 11:26 — **Matrix: Water**
Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:39
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 15:00
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 14:27
Total/NA	Analysis	9056A		10	655322	JMR	EET CLE	05/09/25 15:31

Client Sample ID: MW-13 — Lab Sample ID: 240-223387-7

Date Collected: 04/29/25 10:23 — **Matrix: Water**
Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:43
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 15:07
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 15:52

Client Sample ID: MW-15

Lab Sample ID: 240-223387-8

Date Collected: 04/29/25 12:37

Matrix: Water

Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:48
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 15:10
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 21:10

Client Sample ID: MW-7S

Lab Sample ID: 240-223387-9

Date Collected: 04/29/25 12:20

Matrix: Water

Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:53
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 15:12
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 21:53
Total/NA	Analysis	9056A		10	655322	JMR	EET CLE	05/09/25 22:14

Client Sample ID: MW-9

Lab Sample ID: 240-223387-10

Date Collected: 04/29/25 11:10

Matrix: Water

Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 07:57
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 15:15
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/09/25 22:35

Client Sample ID: MW-10

Lab Sample ID: 240-223387-11

Date Collected: 04/29/25 10:30

Matrix: Water

Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 08:02
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 15:18
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/10/25 00:00

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

Client Sample ID: DUP-01 **Lab Sample ID: 240-223387-12**
Date Collected: 04/29/25 00:00 **Matrix: Water**
Date Received: 05/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6010D		1	654662	AJC	EET CLE	05/03/25 08:07
Total Recoverable	Prep	3005A			654387	MN7X	EET CLE	05/01/25 14:00
Total Recoverable	Analysis	6020B		1	654666	S4FJ	EET CLE	05/02/25 15:20
Total/NA	Analysis	2540 C-2020		1	654561	AAP	EET CLE	05/02/25 12:09
Total/NA	Analysis	9056A		1	655322	JMR	EET CLE	05/10/25 00:42

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. Job ID: 240-223387-1
Project/Site: CCR DTE MNPP-Bottom Ash Impoundment

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

MICHIGAN
190

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone (330) 497-9396 Phone (330) 497-0772

Chain of Custody Record

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Client Information	Sampler: A. Host, A. Iwaky, E. Wielgoszski	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-132144-45395.1
Client Contact: Mr. Vincent Buening	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: MI	Page: Page 1 of 2
Company: TRC Environmental Corporation.	PWSID:			Job #:
Address: 1540 Eisenhower Place	Due Date Requested: Standard			
City: Ann Arbor	TAT Requested (days): Standard			
State, Zip: MI, 48108-7080	Compliance Project: Δ Yes Δ No			
Phone: 313-971-7080(Tel) 313-971-9022(Fax)	PO #: 229274			
Email: vbuening@trccompanies.com	WO #: 620074.0000.0000			
Project Name: DTE MONPP-Bottom Ash Impoundment	Project #: 24016830			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
D - HNO3

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	9056A_28D - Chloride, Fluoride and Sulfate	6010B-Bo, 6020-Ca,Fe	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N	N	D		
MW-35	4/29/25	0906	G	Water	N	N	X	X	X	3	
MW-11		0958	G	Water	N	N	X	X	X	3	
MW-12		1043	G	Water	N	N	X	X	X	3	
MW-14		1222	G	Water	N	N	X	X	X	3	
MW-01S		0907	G	Water	N	N	X	X	X	3	
MW-02S		1126	G	Water	N	N	X	X	X	3	
MW-13		10:23	G	Water	N	N	X	X	X	3	
MW-15		12:37	G	Water	N	N	X	X	X	3	
MW-7S		12:20	G	Water	N	N	X	X	X	3	
MW-9		11:10	G	Water	N	N	X	X	X	3	
MW-10		10:30	G	Water	N	N	X	X	X	3	

240-223387 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) TRC EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/29/25 13:30	TRC	TRC Storage	4/29/25 13:30	TRC
	4-30-25 1035	TRC		4-30-25 1035	
	4/30/25		KMartin	5/1/25 800	

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

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone (330) 497-9396 Phone (330) 497-0772

Chain of Custody Record

MICHIGAN 190

eurofins | Environment Testing

Client Information	Sampler: A. Wheeler, A. Kost, E. Wickstrom	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-132144-45395.1
Client Contact: Mr. Vincent Buening	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: MI	Page: ~~Page 1 of 2~~ 2 of 2
Company: TRC Environmental Corporation.	PWSID:	**Analysis Requested**		Job #:
Address: 1540 Eisenhower Place	**Due Date Requested:** Standard			**Preservation Codes:** N - None D - HNO3
City: Ann Arbor	**TAT Requested (days):** Standard			
State, Zip: MI, 48108-7080	**Compliance Project:** Δ Yes Δ No			
Phone: 313-971-7080(Tel) 313-971-9022(Fax)	PO #: 229274			
Email: vbuening@trccompanies.com	WO #: 620074.0000.0000			
Project Name: DTE MONPP-Bottom Ash Impoundment	Project #: 24016830			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	9056A_28D - Chloride, Fluoride and Sulfate	6010B-Bo, 6020-Ca,Fe	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D		
~~MW-61S~~	~~4/29/25~~	~~0907~~	~~G~~	~~Water~~	~~2~~	~~2~~	~~X~~	~~X~~	~~X~~		Moved to first page
~~MW-13~~		~~1023~~	~~G~~	~~Water~~	~~2~~	~~2~~	~~X~~	~~X~~	~~X~~		
~~MW-25~~		~~1126~~	~~G~~	~~Water~~	~~2~~	~~2~~	~~X~~	~~X~~	~~X~~		
~~MW-15~~		~~1237~~	~~G~~	~~Water~~	~~2~~	~~2~~	~~X~~	~~X~~	~~X~~		
Dup-01	4/29/25	—	G	Water	N	N	X	X	X	3	Include on same report as Page 1
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ________ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) TRC EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:
Relinquished by: [signature]	Date/Time: 4/29/25 1330	Company: TRC	Received by: TRC Storage	Date/Time: 4/29/25 1330	Company: TRC	
Relinquished by: [signature]	Date/Time: 4-30-25/1035	Company: TRC	Received by: [signature]	Date/Time: 4/30/25 1035	Company: EAM	
Relinquished by: [signature]	Date/Time: 4/30/25 1220	Company: EAM	Received by: K Martin	Date/Time: 5/1/25 800	Company: EA	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Ver: 05/06/2024 5/14/2025

1 2 3 4 5 6 7 8 9 10 11 12 13

Eurofins – Cleveland Sample Receipt Form/Narrative Login # _____
Barberton Facility

Client TRC Site Name _____ Cooler unpacked by: KMartin

Cooler Received on 5/11/25 Opened on 5/11/25

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

Receipt After-hours Drop-off Date/Time 4/30/25 Storage Location walk-in cooler

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

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

COOLANT. Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN # 13 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-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
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3 Shippers' packing slip attached to the cooler(s)?	Yes	No
4 Did custody papers accompany the sample(s)?	Yes	No
5 Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7 Did all bottles arrive in good condition (Unbroken)?	Yes	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	Yes	No
11 Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
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# HC457151
14 Were VOAs on the COC?	Yes	No
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
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	No

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

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

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Labeled by: RonShea
Labels Verified by: KMartin

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. _____

Login # ____________

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 13	1.8	2.2	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:	2.1	2.6	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:	1.9	2.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:	2.2	2.7	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

5/1/2025

Login Container Summary Report

240-223387

5/14/2025

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
MW-3S	240-223387-A-1	Plastic 60 mL - unpreserved				
MW-3S	240-223387-B-1	Plastic 500ml - unpreserved				
MW-3S	240-223387-C-1	Plastic 500ml - with Nitric Acid	<2			
MW-11	240-223387-A-2	Plastic 60 mL - unpreserved				
MW-11	240-223387-B-2	Plastic 500ml - unpreserved				
MW-11	240-223387-C-2	Plastic 500ml - with Nitric Acid	<2			
MW-12	240-223387-A-3	Plastic 60 mL - unpreserved				
MW-12	240-223387-B-3	Plastic 500ml - unpreserved				
MW-12	240-223387-C-3	Plastic 500ml - with Nitric Acid	<2			
MW-14	240-223387-A-4	Plastic 60 mL - unpreserved				
MW-14	240-223387-B-4	Plastic 500ml - unpreserved				
MW-14	240-223387-C-4	Plastic 500ml - with Nitric Acid	<2			
MW-01S	240-223387-A-5	Plastic 60 mL - unpreserved				
MW-01S	240-223387-B-5	Plastic 500ml - unpreserved				
MW-01S	240-223387-C-5	Plastic 500ml - with Nitric Acid	<2			
MW-02S	240-223387-A-6	Plastic 60 mL - unpreserved				
MW-02S	240-223387-B-6	Plastic 500ml - unpreserved				
MW-02S	240-223387-C-6	Plastic 500ml - with Nitric Acid	<2			
MW-13	240-223387-A-7	Plastic 60 mL - unpreserved				
MW-13	240-223387-B-7	Plastic 500ml - unpreserved				
MW-13	240-223387-C-7	Plastic 500ml - with Nitric Acid	<2			
MW-15	240-223387-A-8	Plastic 60 mL - unpreserved				
MW-15	240-223387-B-8	Plastic 500ml - unpreserved				
MW-15	240-223387-C-8	Plastic 500ml - with Nitric Acid	<2			
MW-7S	240-223387-A-9	Plastic 60 mL - unpreserved				
MW-7S	240-223387-B-9	Plastic 500ml - unpreserved				
MW-7S	240-223387-C-9	Plastic 500ml - with Nitric Acid	<2			
MW-9	240-223387-A-10	Plastic 60 mL - unpreserved				
MW-9	240-223387-B-10	Plastic 500ml - unpreserved				
MW-9	240-223387-C-10	Plastic 500ml - with Nitric Acid	<2			
MW-10	240-223387-A-11	Plastic 60 mL - unpreserved				
MW-10	240-223387-B-11	Plastic 500ml - unpreserved				
MW-10	240-223387-C-11	Plastic 500ml - with Nitric Acid	<2			
DUP-01	240-223387-A-12	Plastic 60 mL - unpreserved				
DUP-01	240-223387-B-12	Plastic 500ml - unpreserved				

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
DUP-01	240-223387-C-12	Plastic 500ml - with Nitric Acid	<2			

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/24/2025 12:12:49 PM Revision 1

JOB DESCRIPTION

CCR DTE Monroe Power Plant BAI

JOB NUMBER

240-225626-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

myEOL

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
6/24/2025 12:12:49 PM
Revision 1

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

Table of Contents

Definitions/Glossary

Client: TRC Environmental Corporation. Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

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

Job ID: 240-225626-1 Eurofins Cleveland

Job Narrative
240-225626-1

REVISION

The report being provided is a revision of the original report sent on 6/5/2025. The report (revision 1) is being revised due to change is the metal list for sample MW-2S.

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 5/31/2025 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 2 coolers at receipt time were 0.6°C and 2.1°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.

Method Summary

Client: TRC Environmental Corporation. Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CLE
2540 C-2020	Solids, Total Dissolved (TDS)	SM	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.
Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-225626-1	MW-2S	Water	05/29/25 09:22	05/31/25 08:00
240-225626-2	MW-7S	Water	05/29/25 12:39	05/31/25 08:00
240-225626-3	MW-10	Water	05/29/25 10:35	05/31/25 08:00
240-225626-4	DUP-01	Water	05/29/25 00:00	05/31/25 08:00
240-225626-5	MW-9	Water	05/29/25 11:33	05/31/25 08:00
240-225626-6	DUP-02	Water	05/29/25 00:00	05/31/25 08:00

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Monroe Power Plant BAI

Job ID: 240-225626-1

Client Sample ID: MW-2S — Lab Sample ID: 240-225626-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Iron	2800		100		ug/L	1		6020B	Total Recoverable

Client Sample ID: MW-7S — Lab Sample ID: 240-225626-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	130000		1000		ug/L	1		6020B	Total Recoverable
Iron	5200		100		ug/L	1		6020B	Total Recoverable

Client Sample ID: MW-10 — Lab Sample ID: 240-225626-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	170000		1000		ug/L	1		6020B	Total Recoverable
Iron	430		100		ug/L	1		6020B	Total Recoverable

Client Sample ID: DUP-01 — Lab Sample ID: 240-225626-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	140000		1000		ug/L	1		6020B	Total Recoverable
Iron	5700		100		ug/L	1		6020B	Total Recoverable

Client Sample ID: MW-9 — Lab Sample ID: 240-225626-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	810		10		mg/L	1		2540 C-2020	Total/NA

Client Sample ID: DUP-02 — Lab Sample ID: 240-225626-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	800		10		mg/L	1		2540 C-2020	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

Client Sample ID: MW-2S **Lab Sample ID: 240-225626-1**
Date Collected: 05/29/25 09:22 **Matrix: Water**
Date Received: 05/31/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	2800		100		ug/L		06/03/25 05:00	06/04/25 14:48	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

Client Sample ID: MW-7S **Lab Sample ID: 240-225626-2**
Date Collected: 05/29/25 12:39 **Matrix: Water**
Date Received: 05/31/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		1000		ug/L		06/03/25 05:00	06/04/25 14:51	1
Iron	5200		100		ug/L		06/03/25 05:00	06/04/25 14:51	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

Client Sample ID: MW-10 **Lab Sample ID: 240-225626-3**
Date Collected: 05/29/25 10:35 **Matrix: Water**
Date Received: 05/31/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	170000		1000		ug/L		06/03/25 05:00	06/04/25 14:53	1
Iron	430		100		ug/L		06/03/25 05:00	06/04/25 14:53	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

Client Sample ID: DUP-01 **Lab Sample ID: 240-225626-4**
Date Collected: 05/29/25 00:00 **Matrix: Water**
Date Received: 05/31/25 08:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140000		1000		ug/L		06/03/25 05:00	06/04/25 15:01	1
Iron	5700		100		ug/L		06/03/25 05:00	06/04/25 15:01	1

Client: TRC Environmental Corporation.
Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

Client Sample ID: MW-9
Lab Sample ID: 240-225626-5
Date Collected: 05/29/25 11:33
Matrix: Water
Date Received: 05/31/25 08:00

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	810		10		mg/L			06/03/25 14:18	1

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

Client Sample ID: DUP-02 **Lab Sample ID: 240-225626-6**
Date Collected: 05/29/25 00:00 **Matrix: Water**
Date Received: 05/31/25 08:00

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	800		10		mg/L			06/03/25 14:18	1

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Monroe Power Plant BAI

Job ID: 240-225626-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-658201/1-A
Matrix: Water
Analysis Batch: 658646

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 658201

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000		ug/L		06/03/25 05:00	06/04/25 13:58	1
Iron	100	U	100		ug/L		06/03/25 05:00	06/04/25 13:58	1

Lab Sample ID: LCS 240-658201/2-A
Matrix: Water
Analysis Batch: 658646

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 658201

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			25000	26400		ug/L		106	80 - 120		
Iron			5000	5160		ug/L		103	80 - 120		

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

Lab Sample ID: MB 240-658409/1
Matrix: Water
Analysis Batch: 658409

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			06/03/25 14:18	1

Lab Sample ID: LCS 240-658409/2
Matrix: Water
Analysis Batch: 658409

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			240	225		mg/L		94	80 - 120		

QC Association Summary

Client: TRC Environmental Corporation. Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

Metals

Prep Batch: 658201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-225626-1	MW-2S	Total Recoverable	Water	3005A	
240-225626-2	MW-7S	Total Recoverable	Water	3005A	
240-225626-3	MW-10	Total Recoverable	Water	3005A	
240-225626-4	DUP-01	Total Recoverable	Water	3005A	
MB 240-658201/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-658201/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 658646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-225626-1	MW-2S	Total Recoverable	Water	6020B	658201
240-225626-2	MW-7S	Total Recoverable	Water	6020B	658201
240-225626-3	MW-10	Total Recoverable	Water	6020B	658201
240-225626-4	DUP-01	Total Recoverable	Water	6020B	658201
MB 240-658201/1-A	Method Blank	Total Recoverable	Water	6020B	658201
LCS 240-658201/2-A	Lab Control Sample	Total Recoverable	Water	6020B	658201

General Chemistry

Analysis Batch: 658409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-225626-5	MW-9	Total/NA	Water	2540 C-2020	
240-225626-6	DUP-02	Total/NA	Water	2540 C-2020	
MB 240-658409/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-658409/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Monroe Power Plant BAI

Job ID: 240-225626-1

Client Sample ID: MW-2S
Date Collected: 05/29/25 09:22
Date Received: 05/31/25 08:00

Lab Sample ID: 240-225626-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			658201	MN7X	EET CLE	06/03/25 05:00
Total Recoverable	Analysis	6020B		1	658646	S4FJ	EET CLE	06/04/25 14:48

Client Sample ID: MW-7S
Date Collected: 05/29/25 12:39
Date Received: 05/31/25 08:00

Lab Sample ID: 240-225626-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			658201	MN7X	EET CLE	06/03/25 05:00
Total Recoverable	Analysis	6020B		1	658646	S4FJ	EET CLE	06/04/25 14:51

Client Sample ID: MW-10
Date Collected: 05/29/25 10:35
Date Received: 05/31/25 08:00

Lab Sample ID: 240-225626-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			658201	MN7X	EET CLE	06/03/25 05:00
Total Recoverable	Analysis	6020B		1	658646	S4FJ	EET CLE	06/04/25 14:53

Client Sample ID: DUP-01
Date Collected: 05/29/25 00:00
Date Received: 05/31/25 08:00

Lab Sample ID: 240-225626-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			658201	MN7X	EET CLE	06/03/25 05:00
Total Recoverable	Analysis	6020B		1	658646	S4FJ	EET CLE	06/04/25 15:01

Client Sample ID: MW-9
Date Collected: 05/29/25 11:33
Date Received: 05/31/25 08:00

Lab Sample ID: 240-225626-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540 C-2020		1	658409	C5SV	EET CLE	06/03/25 14:18

Client Sample ID: DUP-02
Date Collected: 05/29/25 00:00
Date Received: 05/31/25 08:00

Lab Sample ID: 240-225626-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540 C-2020		1	658409	C5SV	EET CLE	06/03/25 14:18

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. Job ID: 240-225626-1
Project/Site: CCR DTE Monroe Power Plant BAI

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	06-01-27
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	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	06-15-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone (330) 497-9396 Phone (330) 497-0772

MICHIGAN 190

Chain of Custody Record

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Client Information	Sampler: A. Whaley	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-133264-45835.1
Client Contact: Mr. Vincent Buening	Phone: ~~734~~ 734-210-4239	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: MI	Page: Page 1 of 1
Company: TRC Environmental Corporation.	PWSID:			Job #:
Address: 1540 Eisenhower Place	Due Date Requested: 5 Day TAT			
City: Ann Arbor	TAT Requested (days): 5 Day TAT			
State, Zip: MI, 48108-7080	Compliance Project: Δ Yes Δ No			
Phone: 313-971-7080(Tel) 313-971-9022(Fax)	PO #: 229274			
Email: vbuening@trccompanies.com	WO #:			
Project Name: CCR DTE MON ~~FAB/VEL~~ GAI	Project #: 24016830			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewater, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - (MOD) Metals - Fe	6020B - (MOD) Metals - Ca, Fe	2540C_Calcd - TDS	Total Number of containers	Special Instructions/Note:
Preservation Code:							D	D	N		
MW-2S	5/29/25	0922	G	Water	N	N	X			1	
MW-7S		1239	G	Water	N	N		X		1	
MW-10		1035	G	Water	N	N		X		1	
DUP-01		—	G	Water	N	N		X		1	
MW-9		1133	G	Water	N	N			X	1	
Dup-02		—	G	Water	N	N			X	1	

240-225626 COC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) TRC EDD	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5-29-25 1410	TRC	TRC Storage	5-29-25 14:10	TRC
2		5-30-25 0907	TRC		5/30/25 0908	EETA
3		5/30/25 0909	EETA	JESSE MOROSKO	5/31/25 8w	Eu

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

Eurofins – Cleveland Sample Receipt Form/Narrative **Login #** ._____
Barberton Facility

Client TRC Site Name _____ Cooler unpacked by: JMGROSKO

Cooler Received on 5/31/25 Opened on 5/31/25

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 Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN # 17 (CF 10.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp _____ °C

2	Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes No
	-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
	-Were tamper/custody seals intact and uncompromised?	Yes No NA
3	Shippers' packing slip attached to the cooler(s)?	Yes No
4.	Did custody papers accompany the sample(s)?	Yes No
5	Were the custody papers relinquished & signed in the appropriate place?	Yes No
6	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes No
7	Did all bottles arrive in good condition (Unbroken)?	Yes No
8	Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes No
9	For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	
10	Were correct bottle(s) used for the test(s) indicated?	Yes No
11	Sufficient quantity received to perform indicated analyses?	Yes No
12.	Are these work share samples and all listed on the COC?	Yes No
	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# HC463162
14	Were VOAs on the COC?	Yes No
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
17	Was a LL Hg or Me Hg trip blank present? _____	Yes No

Tests that are not checked for pH by Receiving.

VOAs
Oil and Grease
TOC

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 _____

Login # ______

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 17	0.4	0.6	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ✓	1.9	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
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☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 Multiple Coolers

5/31/2025

Login Container Summary Report

240-225626

6/24/2025 (Rev. 1)

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
MW-2S	240-225626-A-1	Plastic 500ml - with Nitric Acid	<2			
MW-7S	240-225626-A-2	Plastic 500ml - with Nitric Acid	<2			
MW-10	240-225626-A-3	Plastic 500ml - with Nitric Acid	<2			
DUP-01	240-225626-A-4	Plastic 500ml - with Nitric Acid	<2			
MW-9	240-225626-A-5	Plastic 500ml - unpreserved	<2			
DUP-02	240-225626-A-6	Plastic 500ml - unpreserved	<2			

Appendix C
Data Quality Reviews

Laboratory Data Quality Review
Groundwater Monitoring Event October 2024
DTE Electric Company Monroe Power Plant Bottom Ash Impoundment

Groundwater samples were collected by TRC for the October 2024 sampling event. Samples were analyzed for anions, total and/or dissolved metals, and total dissolved solids by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-213667-1.

During the October 2024 sampling event, a groundwater sample was collected from each of the following wells:

- MW-1S
- MW-2S
- MW-3S
- MW-7S
- MW-9
- MW-10
- MW-11
- MW-12
- MW-13
- MW-14
- MW-15

Each sample was analyzed for one the following constituents:

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

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:

- 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, where applicable. 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), when performed on project samples. 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, when performed on project samples. 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.

- The reviewed Appendix III constituents as well as iron 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

- TDS was analyzed slightly after the 7th day of collection for sample DUP-01. However, there is no impact on data usability since the sample was analyzed for TDS on the 7th day after collection.
- Target analytes were not detected in the method blanks.
- A field blank and equipment blank were not submitted with this sample set.
- LCS recoveries for all target analytes were within laboratory control limits.
- Laboratory duplicate analyses were performed on samples MW-12 and MW-13 for TDS; the RPDs were within the acceptance limit.
- The RLs met the project requirements and were deemed suitable for data usability.
- MS/MSD analyses were performed on sample MW-14 for total boron, fluoride, chloride, and sulfate, MW-13 for chloride, fluoride, and sulfate, MW-3S for total boron, and total calcium and DUP-01 for total calcium; all criteria were met with the following exceptions:
  - The percent recoveries for total calcium in the MS performed on samples DUP-01 and MW-3S were outside of the acceptance limits. However, the results for total calcium in the parent samples were >4x the spike concentration; therefore, this is no impact on data usability due to this issue.
  - The RPD for fluoride (19%) in the diluted MS/MSD performed on sample MW-14 was above the acceptance limit (15%). However, the laboratory reported two RPDs for fluoride in this MS/MSD pair and the RPD from the undiluted MS/MSD was acceptable. Therefore, based on professional judgement, there is no impact on the data usability due to this issue.

- Samples DUP-01/MW-14 were submitted as a field duplicate pair with this data set; all criteria were met.

Laboratory Data Quality Review
Groundwater Monitoring Event December 2024
(Detection Verification Monitoring)
DTE Electric Company Monroe Power Plant Bottom Ash Impoundment

Groundwater samples were collected by TRC for the December 2024 sampling event. Samples were analyzed for fluoride, total boron, total calcium, and/or total dissolved solids by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-216227-1 (Revision 2).

During the December 2024 verification event, a groundwater sample was collected from each of the following wells:

- MW-2S
- MW-14
- MW-15

Each sample was analyzed for one or more of the following constituents:

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

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:

- 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, where applicable. 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), when performed on project samples. 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, when performed on project samples. 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.

- The reviewed 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

- Target analytes were not detected in the method blanks.
- An equipment blank and field blank were not submitted with this data set.
- LCS recoveries for all target analytes were within laboratory control limits.
- The RLs met the project requirements and were deemed suitable for data usability.
- MS/MSD and laboratory duplicate analyses were not performed on a sample from this data set.
- Samples DUP-01/MW-2S, DUP-02/MW-14, and DUP-03/MW-15 were submitted as the field duplicate pairs with this data set; all criteria were met.

Laboratory Data Quality Review
Groundwater Monitoring Event April 2025
DTE Electric Company Monroe Power Plant Bottom Ash Impoundment

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 240-223387-1.

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

- MW-01S
- MW-02S
- MW-3S
- MW-7S
- MW-9
- MW-10
- MW-11
- MW-12
- MW-13
- MW-14
- MW-15

Each sample was analyzed for one 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, where applicable. 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) and laboratory control sample duplicates (LCSDs), when performed. The LCSs and/or LCSDs are used to assess the accuracy of the analytical method using a clean matrix;

- Data for matrix spike (MS) and matrix spike duplicate samples (MSDs), when performed on project samples. 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, when performed on project samples. 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.

- The reviewed 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.
- When the data are evaluated through an assessment monitoring statistical program, findings below may be used to support the removal of outliers.

QA/QC Sample Summary

- Sample reports were checked to verify that the results corresponded to analytical requests as designated on the COC. The following discrepancies were noted:
  - The laboratory reported boron using SW846 method 6010D rather than 6010B as requested on the COC. There was no adverse impact on the data usability due to this issue.
- The cooler temperature was between 0-6°C and acid was used for sample preservation, as applicable.
  - The samples were relinquished to the laboratory one day after collection. The field staff has stated during previous rounds of data review that when this occurs, samples are stored in coolers, on ice until shipment to the lab. There is no impact on data usability.
- All preparation and analysis holding time requirements were met.
- Target analytes were not detected in the method blanks.
- A field blank and equipment blank were not submitted with this sample set.
- LCS recoveries for all target analytes were within laboratory control limits.
- MS and MSD analyses were not performed on a sample from this data set.

- Laboratory duplicate analysis was performed on sample MW-01S for TDS; the RPD was within the QC limit.
- Samples DUP-01 and MW-15 were submitted as the field duplicate pair with this data set; all criteria were met.
- The RLs met the project requirements and were deemed suitable for data usability.
  - The RL for TDS (20 mg/L) in samples MW-3S, MW-11, MW-12, MW-14, MW-02S, and MW-7S was greater than the QAPP-specified RL (10 mg/L); a lower volume was likely analyzed due to conductivity. There is no adverse impact on data usability since TDS was detected in the listed samples.
  - The RL for boron (100 µg/L) was lower than the QAPP-specified RL (200 µg/L). There is no adverse impact the data usability since the reported RL is lower than the QAPP specified RL and the boron detections are greater than the requested RL.
- The following dilutions were performed on the samples in this data set; RLs were elevated accordingly by the laboratory:
  - Samples MW-3S, MW-11, MW-12, MW-02S, and MW-7S were diluted 10-fold for sulfate, and sample MW-14 was diluted 10-fold for chloride and sulfate likely due to the concentrations of sulfate and/or chloride which exceeded the calibration range when analyzed undiluted. There is no impact on data usability due to this issue since sulfate in samples MW-3S, MW-11, MW-12, MW-02S, and MW-7S, and chloride and sulfate in sample MW-14 were detected above the RLs.

Laboratory Data Quality Review
Groundwater Monitoring Event May 2025
DTE Electric Company Monroe Power Plant Bottom Ash Impoundment

Groundwater samples were collected by TRC for the May 2025 sampling event. Samples were analyzed for total metals and total dissolved solids by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-225626-1.

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

- MW-7S
- MW-9
- MW-10

Each sample was analyzed for one or more of the following constituents:

Analyte Group	Method
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, where applicable. 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 (MS) and matrix spike duplicate samples (MSDs), when performed on project samples. 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, when performed on project samples. 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.

- The reviewed 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.
- When the data are evaluated through an assessment monitoring statistical program, findings below may be used to support the removal of outliers.

QA/QC Sample Summary

- Sample reports were checked to verify that the results corresponded to analytical requests as designated on the COC. No discrepancy was noted.
- The cooler temperature was between 0-6°C and acid was used for sample preservation, as applicable.
  - The samples were relinquished to the laboratory one day after collection. The field staff has stated during previous rounds of data review that when this occurs, samples are stored in coolers, on ice until shipment to the lab. There is no impact on data usability
- All preparation and analysis holding time requirements were met.
- Target analytes were not detected in the method blanks.
- A field blank and equipment blank were not submitted with this sample set.
- LCS recoveries for all target analytes were within laboratory control limits.
- MS and MSD analyses were not performed on a sample from this data set.
- A laboratory duplicate analysis was not performed on a sample from this data set.
- Samples DUP-01 and MW-7S, and samples DUP-02 and MW-9 were submitted as the field duplicate pairs with this data set; all criteria were met.
- The RLs met the project requirements and were deemed suitable for data usability.
- All dilution factors were listed as 1-fold.