



# 2022 Annual Groundwater Monitoring Report

## Monroe Power Plant Fly Ash Basin and Vertical Extension Landfill Coal Combustion Residual Units

January 2023

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## Executive Summary

On April 17, 2015, the United States Environmental Protection Agency (USEPA) published the final rule for the regulation and management of Coal Combustion Residuals (CCR) under the Resource Conservation and Recovery Act (RCRA) (the CCR Rule), as amended. The CCR Rule, which became effective on October 19, 2015 (with amendments in 2018 and 2020), applies to the DTE Electric Company (DTE Electric) Monroe Power Plant (MONPP) Coal Combustion Residual Fly Ash Basin and Vertical Extension Landfill (FAB & VEL) CCR units. Pursuant to the CCR Rule, no later than January 31, 2018, and annually thereafter, the owner or operator of a CCR unit must prepare an annual groundwater monitoring and corrective action report for the CCR unit documenting the status of groundwater monitoring and corrective action for the preceding year in accordance with §257.90(e). On behalf of DTE Electric, TRC Engineers Michigan, Inc., the engineering entity of TRC, has prepared this Annual Groundwater Monitoring Report for calendar year 2021 activities at the MONPP FAB & VEL CCR units.

The MONPP FAB & VEL were operating under the detection monitoring program at the start of the 2022 annual reporting period and remained in the detection monitoring program through the end of the 2022 annual reporting period. The semiannual detection monitoring events for 2022 were completed in April and October 2022 and included sampling and analyzing groundwater within the groundwater monitoring system for the indicator parameters listed in Appendix III to the CCR Rule. As part of the statistical evaluation, the data collected during detection monitoring events are evaluated to identify statistically significant increases (SSIs) in Appendix III parameters to determine if concentrations in groundwater exceed prediction limits. Detection monitoring data that has been collected and evaluated under §257.90 through §257.98 in 2022 are presented in this report.

No SSIs over prediction limits were noted for the Appendix III constituents in the monitoring wells during the April and October 2022 monitoring events; therefore, detection monitoring will be continued at the MONPP FAB & VEL CCR units in accordance with §257.94. In addition, based on the artesian conditions, the low permeability of the laterally contiguous underlying natural soils, and the calculated time of travel for groundwater to flow vertically from the MONPP FAB & VEL to the uppermost aquifer, there is no reasonable probability for the uppermost aquifer to have been affected by CCR from FAB & VEL operations that began in 1975.

## 1.0 Introduction

### 1.1 Program Summary

On April 17, 2015, the United States Environmental Protection Agency (USEPA) published the final rule for the regulation and management of Coal Combustion Residuals (CCR) under the Resource Conservation and Recovery Act (RCRA) (the CCR Rule), as amended. The CCR Rule, which became effective on October 19, 2015 (with amendments in 2018 and 2020), applies to the DTE Electric Company (DTE Electric) Monroe Power Plant (MONPP) Coal Combustion Residual Fly Ash Basin and Vertical Extension Landfill (FAB & VEL) CCR units. Pursuant to the CCR Rule, no later than January 31, 2018, and annually thereafter, the owner or operator of a CCR unit must prepare an annual groundwater monitoring and corrective action report for the CCR unit documenting the status of groundwater monitoring and corrective action for the preceding year in accordance with §257.90(e). On behalf of DTE Electric, TRC Engineers Michigan, Inc., the engineering entity of TRC, has prepared this 2022 Annual Groundwater Monitoring Report for calendar year 2022 activities at the MONPP FAB & VEL CCR units (2022 Annual Report).

This 2022 Annual Report presents the monitoring results and the statistical evaluation of the detection monitoring parameters (Appendix III to Part 257 of the CCR Rule) for the April and October 2022 semiannual groundwater monitoring events for the MONPP FAB & VEL CCR units. Detection monitoring for these events continued to be performed in accordance with the *CCR Groundwater Monitoring and Quality Assurance Project Plan – DTE Electric Company Monroe Power Plant Coal Combustion Residual Fly Ash Basin (QAPP)* (TRC, August 2016; revised March 2017) and statistically evaluated per the *Groundwater Statistical Evaluation Plan – Monroe Power Plant Coal Combustion Residual Fly Ash Basin (Stats Plan)* (TRC, October 2017). As part of the statistical evaluation, the data collected during detection monitoring events are evaluated to identify SSIs of detection monitoring parameters compared to background levels.

Additional site characterization was completed in late 2020 and 2021, including additional soil borings, Cone Penetrometer Testing (CPT), soil sample collection for additional clay-rich soil laboratory hydraulic conductivity testing and additional slug testing (to measure the hydraulic conductivity of the uppermost aquifer in wells not previously tested) in support of the Preliminary Alternative Liner Demonstration (PALD) that was submitted to EPA on November 30, 2021 (Geosyntec 2021). The PALD concludes that there is no reasonable probability that water from FAB will cause releases to groundwater throughout the active life of the CCR unit at concentrations that will exceed the groundwater protection standard at the waste boundary.

### 1.2 Site Overview

The MONPP FAB & VEL is located about one mile southwest of the MONPP in Section 16, Township 7 South, Range 9 East at 7955 East Dunbar Road, Monroe, Monroe County, Michigan (Figure 1). The MONPP FAB & VEL is bounded by Dunbar Road and Plum Creek to the north and northeast, Interstate 75 to the northwest, a 200-acre peninsula into Lake Erie to the east and southeast, Lake Erie to the south, and a large open field to the southwest (Figure 2).

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The property has been used continuously for the operation of the MONPP FAB & VEL since approximately 1975 and is constructed over a natural clay-rich soil base. The MONPP FAB & VEL are owned by DTE Electric, and currently receive coal ash from DTE Electric's MONPP. The MONPP FAB & VEL are operated in accordance with Michigan Part 115 of the Natural Resources and Environmental Protection Act (NREPA), PA 451 of 1994, as amended, and are licensed as a Coal Ash Surface Impoundment and a Coal Ash Landfill under the current operating license number 9579.

### **1.3 Geology/Hydrogeology**

The MONPP FAB & VEL CCR units are located within 200 feet southwest of Plum Creek and immediately north of Lake Erie. The MONPP FAB & VEL CCR units uppermost aquifer consists of saturated limestone and a 5 to 10 foot thick layer of weathered limestone mixed with clay, sand, and/or gravel, both present beneath at least 14 to 34 feet of thick contiguous silty clay-rich soil that serves as a natural confining hydraulic barrier that isolates the underlying uppermost aquifer (TRC, 2017 and Geosyntec, 2021). The limestone bedrock aquifer is artesian in every location except MW-16-01, where the static water level was approximately 1 to 2 feet below ground surface (ft bgs).

Potentiometric groundwater elevation data from 2016 through 2022 suggest that there is horizontal groundwater flow potential within the upper aquifer unit generally to the northeast towards Plum Creek. The average hydraulic gradient to the northeast is on the order of 0.002 foot/foot along the eastern part of the MONPP FAB & VEL to 0.004 to 0.005 foot/foot in the center and northwestern part of the FAB & VEL, with an overall mean of 0.004 foot/foot in 2022.

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## 2.0 Groundwater Monitoring

### 2.1 Monitoring Well Network

A groundwater monitoring system has been established for the MONPP FAB & VEL CCR units as detailed in the Groundwater Monitoring System Summary Report – Monroe Power Plant Coal Combustion Residual Fly Ash Basin (GWMS Report) (TRC, October 2017). The detection monitoring well network for the MONPP FAB & VEL CCR units currently consists of seven monitoring wells that are screened in the uppermost aquifer. Monitoring wells MW-16-01 through MW-16-07 are located around the perimeter of the MONPP FAB & VEL CCR units and provide data on both background and downgradient groundwater quality that has not been affected by the CCR units (total of seven background/downgradient monitoring wells). The monitoring well locations are shown on Figure 2.

### 2.2 Semiannual Groundwater Monitoring

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

#### 2.2.1 Data Summary

The first semiannual groundwater detection monitoring event for 2022 was performed April 5 and 6, 2022 by TRC personnel and samples were analyzed by Eurofins Environment Testing America (Eurofins) in accordance with the QAPP. Static water elevation data were collected at all seven monitoring well locations. Groundwater samples were collected from the seven detection monitoring wells for the Appendix III indicator parameters and field parameters. A summary of the groundwater data collected during the April 2022 event is provided on Table 1 (static groundwater elevation data), Table 2 (field data), and Table 3 (analytical results).

The second semiannual groundwater detection monitoring event for 2022 was performed on October 11 and 12, 2022 by TRC personnel and samples were analyzed by Eurofins in accordance with the QAPP. Static water elevation data were collected at all seven monitoring well locations. Groundwater samples were collected from the seven detection monitoring wells for the Appendix III indicator parameters and field parameters. A summary of the groundwater data collected during the October 2022 event is provided on Table 1 (static groundwater elevation data), Table 2 (field data), and Table 4 (analytical results). The laboratory analytical reports are included in Appendix A.

#### 2.2.2 Data Quality Review

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

The data were found to be complete and usable for the purposes of the CCR monitoring program. Data quality reviews are summarized in Appendix B.

### **2.2.3 Groundwater Flow Rate and Direction**

Groundwater elevation data collected during the April and October 2022 sampling events continue to show that groundwater within the uppermost aquifer generally flows to the northeast across the Site. Groundwater potentiometric surface elevations measured across the Site during the April and October 2022 sampling events are provided on Table 1 and were used to construct the 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 gradients throughout the MONPP FAB/VEL CCR unit during the April and October 2022 events was approximately 0.004 ft/ft in April 2022 and 0.003 ft/ft in October 2022. Using the average hydraulic conductivity of 14 feet/day (TRC, 2017 and Geosyntec, 2021) and an assumed effective porosity of 0.1, the estimated seepage velocity for the April and October 2022 events is 0.56 feet/day (approximately 200 feet/year) and 0.42 feet/day (approximately 150 feet/year), respectively.

The general flow rate and direction from both events are similar to that identified in previous monitoring rounds and continues to demonstrate that the monitoring wells are appropriately positioned to detect the presence of Appendix III parameters that could potentially migrate from the MONPP FAB & VEL CCR units.



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## 3.0 Statistical Evaluation

### 3.1 Establishing Background Limits

As discussed in the Stats Plan, intrawell statistical methods for MONPP FAB & VEL were selected based on the geology and hydrogeology at the Site (primarily the presence of clay/hydraulic barrier and the hydraulic separation between the CCR units and underlying uppermost aquifer), in addition to other supporting lines of evidence that the aquifer is unaffected by the CCR units (such as the consistency in concentrations of water quality data). An intrawell statistical approach requires that each monitoring well doubles as a background and compliance well, where data from each individual well during a detection monitoring event is compared to a statistical limit developed using the background dataset from that same well.

Per the Stats Plan, background limits were established for the Appendix III indicator parameters following the collection of at least eight background monitoring events using data collected from each of the seven established detection monitoring wells (MW-16-01 through MW-16-07). The initial statistical evaluation of the background data is presented in the 2017 Annual Report (TRC, January 2018). 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 FAB & VEL CCR units by comparing concentrations in the detection monitoring wells to their respective background limits for each Appendix III indicator parameter. Prediction limits are periodically updated to reflect the additional data and additional temporal variability observed over time. The Appendix III prediction limits at MONPP FAB & VEL were updated in December 2021 to incorporate additional data since 2017 as presented in the December 15, 2021 Technical Memorandum, *Prediction Limit Update – DTE Electric Company, Monroe Power Plant Fly Ash Basin and Vertical Extension Landfill* (included as Appendix C in the 2021 Annual Groundwater Monitoring Report – DTE Electric Company, Sibley Quarry Landfill, Coal Combustion Residual Unit, TRC, January 2022).

### 3.2 Data Comparison to Background Limits – First 2022 Semiannual Event (April 2022)

The concentrations of the indicator parameters in each of the detection monitoring wells (MW-16-01 through MW-16-07) were compared to their respective statistical background limits calculated from the background data collected from each individual well (i.e., monitoring data from MW-16-01 is compared to the background limit developed using the background dataset from MW-16-01, and so forth). The comparisons for the April detection monitoring event are presented on Table 3. Based on the statistical evaluation of the April 2022 detection monitoring parameters, there were no SSIs compared to background for any of the constituents.

### 3.3 Data Comparison to Background Limits – Second 2022 Semiannual Event (October 2022)

The concentrations of the indicator parameters in each of the detection monitoring wells (MW-16-01 through MW-16-07) were compared to their respective statistical background limits calculated from the background data collected from each individual well (i.e., monitoring data

from MW-16-01 is compared to the background limit developed using the background dataset from MW-16-01, and so forth). The comparisons for the October detection monitoring event are presented on Table 4. Based on the statistical evaluation of the October 2022 detection monitoring parameters, there were no SSIs compared to background for any of the constituents.

## 4.0 Conclusions and Recommendations

No SSIs over background limits were noted for the groundwater monitoring wells during the 2022 semiannual groundwater monitoring events; therefore, detection monitoring will be continued at the MONPP FAB & VEL in accordance with §257.94.

In addition, as discussed above, and in the GWMS Report, based on the artesian conditions, the low permeability of the laterally contiguous underlying natural soils, and the calculated time of travel for groundwater to flow vertically from the MONPP FAB & VEL to the uppermost aquifer, there is no reasonable probability for the uppermost aquifer to have been affected by CCR from FAB & VEL operations that began in 1975.

No corrective actions were performed in 2022. The next semiannual monitoring event at the MONPP FAB & VEL CCR units is scheduled for the second calendar quarter of 2023.


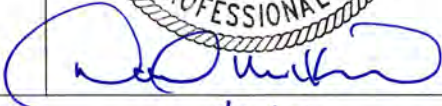
## 5.0 Groundwater Monitoring Report Certification

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 Fly Ash Basin and Vertical Extension Landfill  
Monroe, Michigan**

### CERTIFICATION

I hereby certify that the annual groundwater and corrective action report presented within this document for the MONPP FAB & VEL CCR units 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, 2023	 
Company: TRC Engineers Michigan, Inc.	Date: January 31, 2023	

1/31/23

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## 6.0 References

- Geosyntec Consultants (Geosyntec). November 2021. Preliminary Alternative Liner Demonstration Fly Ash Basin Monroe Power Plant, DTE Electric Company Monroe Power Plant Fly Ash Basin and vertical Extension Landfill Coal Combustion Residuals Unit, 7955 East Dunbar Road, Monroe, Michigan.
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- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA facilities, Unified Guidance. Office of Conservation and Recovery. EPA 530/R-09-007.
- USEPA. April 2015. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. 80 Federal Register 74 (April 17, 2015), pp. 21301-21501 (80 FR 21301).
- USEPA. July 2018. 40 CFR Part 257. Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals from Electric Utilities; Amendments to the National Minimum Criteria (Phase One, Part One); Final Rule. 83 Federal Register 146 (July 30, 2018), pp. 36435-36456 (83 FR 36435).

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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**  
 Summary of Groundwater Elevation Data – April and October 2022  
 Monroe Power Plant Fly Ash Basin and Vertical Extension Landfill – RCRA CCR Monitoring Program  
 Monroe, Michigan

Well ID	MW-16-01		MW-16-02		MW-16-03		MW-16-04		MW-16-05		MW-16-06		MW-16-07	
Date Installed	2/17/2016		2/18/2016		2/16/2016		2/15/2016		4/13/2016		4/13/2016		4/14/2016	
TOC Elevation	581.74		581.81		579.95		585.54		580.42		581.94		578.40	
Geologic Unit of Screened Interval	Silt/Limestone Interface		Silt/Limestone Interface		Sand & Silty Clay Limestone Interface		Silty Sand and Gravel		Limestone		Gravel and Cobbles		Silt/Limestone Interface	
Screened Interval Elevation	530.9 to 525.9		526.4 to 521.4		540.3 to 535.3		541.6 to 536.6		540.5 to 535.5		534.2 to 529.2		540.4 to 535.4	
Unit	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft
Measurement Date	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation
04/06/2022	4.66 <sup>(1)</sup>	577.08	-2.82	584.63	-11.57	591.52	-16.52	602.06	-17.05	597.47	0.00	581.94	-6.74	585.14
10/11/2022	4.63	577.11	-0.88	582.69	-8.11	588.06	-10.02	595.56	-11.83	592.25	1.49	580.45	-4.66	583.06

**Notes:**

Negative depth to water measurement indicates artesian conditions, actual measured water level is above the top of casing.

Elevations are reported in feet relative to the North American Vertical Datum of 1988.

ft BTOC - feet below top of casing

1) - Measurement was taken on April 5, 2022.



**Table 2**  
 Summary of Field Parameters – April and October 2022  
 Monroe Power Plant Fly Ash Basin and Vertical Extension Landfill – RCRA CCR Monitoring Program  
 Monroe, Michigan

Sample Location	Sample Date	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Specific Conductivity (umhos/cm)	Temperature (deg C)	Turbidity (NTU)
MW-16-01	4/6/2022	1.50	-176.5	7.3	2,397	10.00	2.75
	10/12/2022	1.59	64.2	7.1	1,802	14.00	2.05
MW-16-02	4/6/2022	1.00	-238.0	7.2	2,465	10.50	10.00
	10/12/2022	1.63	55.9	7.1	1,783	12.50	6.10
MW-16-03	4/6/2022	0.75	-280.5	7.2	2,522	11.50	10.00
	10/12/2022	1.10	38.1	7.0	1,813	12.20	2.68
MW-16-04	4/6/2022	0.78	-297.5	7.3	2,405	11.00	2.87
	10/12/2022	1.09	30.1	7.0	1,681	11.10	0.00
MW-16-05	4/6/2022	0.77	-782.5	7.2	2,361	11.80	19.85
	10/12/2022	1.13	32.1	7.0	1,684	11.80	0.61
MW-16-06	4/6/2022	0.80	-267.0	7.2	2,409	11.20	10.00
	10/12/2022	1.64	29.9	7.1	1,819	13.70	13.10
MW-16-07	4/6/2022	1.24	-62.4	6.9	1,849	11.70	3.48
	10/12/2022	1.07	33.2	7.0	1,689	12.30	0.53

**Notes:**

mg/L - Milligrams per Liter.

mV - Millivolts.

SU - Standard Units.

umhos/cm - Micromhos per centimeter.

°C - Degrees Celsius.

NTU - Nephelometric Turbidity Unit

**Table 3**  
 Comparison of Appendix III Parameter Results to Background Limits – April 2022  
 Monroe Power Plant Fly Ash Basin and Vertical Extension Landfill – RCRA CCR Monitoring Program  
 Monroe, Michigan

Sample Location:		MW-16-01		MW-16-02		MW-16-03		MW-16-04		MW-16-05		MW-16-06		MW-16-07	
Sample Date:		4/5/2022	PL	4/6/2022	PL	4/6/2022	PL	4/6/2022	PL	4/6/2022	PL	4/6/2022	PL	4/6/2022	PL
Constituent	Unit	Data		Data		Data		Data		Data		Data		Data	
<b>Appendix III</b>															
Boron	ug/L	240	300	390	450	420	500	140	210	200	270	310	390	180	250
Calcium	ug/L	420,000	440,000	410,000	430,000	420,000	470,000	550,000	600,000	420,000	440,000	400,000	420,000	420,000	440,000
Chloride	mg/L	10	12	13	15	18	20	33	36	11	12	11	12	7.6	12
Fluoride	mg/L	1.6	1.8	1.4	1.7	1.4	1.7	0.95	1.1	1.4	1.6	1.5	1.7	1.4	1.7
pH, Field	su	7.3	6.9 - 8.6	7.2	6.9 - 7.3	7.2	6.7 - 7.3	7.3	7.0 - 7.5	7.2	6.9 - 7.7	7.2	7.0 - 7.3	6.9	6.9 - 7.4
Sulfate	mg/L	1,300	1,600	1,500	1,700	1,500	1,700	1,300	1,500	1,400	1,600	1,500	1,600	1,400	1,600
Total Dissolved Solids	mg/L	2,000	2,200	2,100	2,300	2,100	2,400	1,900	2,300	2,000	2,200	2,100	2,300	2,000	2,200

**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.

**Table 4**  
 Comparison of Appendix III Parameter Results to Background Limits – October 2022  
 Monroe Power Plant Fly Ash Basin and Vertical Extension Landfill – RCRA CCR Monitoring Program  
 Monroe, Michigan

Sample Location:		MW-16-01		MW-16-02		MW-16-03		MW-16-04		MW-16-05		MW-16-06		MW-16-07	
Sample Date:		10/12/2022	PL	10/12/2022	PL	10/12/2022	PL	10/12/2022	PL	10/12/2022	PL	10/12/2022	PL	10/12/2022	PL
Constituent	Unit	Data		Data		Data		Data		Data		Data		Data	
<b>Appendix III</b>															
Boron	ug/L	250	300	360	450	420	500	160	210	220	270	320	390	190	250
Calcium	ug/L	380,000	440,000	350,000	430,000	380,000	470,000	510,000	600,000	390,000	440,000	380,000	420,000	390,000	440,000
Chloride	mg/L	10	12	13	15	18	20	34	36	11	12	11	12	7.6	12
Fluoride	mg/L	1.6	1.8	1.5	1.7	1.5	1.7	0.95	1.1	1.5	1.6	1.5	1.7	1.4	1.7
pH, Field	su	7.1	6.9 - 8.6	7.1	6.9 - 7.3	7.0	6.7 - 7.3	7.0	7.0 - 7.5	7.0	6.9 - 7.7	7.1	7.0 - 7.3	7.0	6.9 - 7.4
Sulfate	mg/L	1,400	1,600	1,500	1,700	1,500	1,700	1,400	1,500	1,400	1,600	1,400	1,600	1,400	1,600
Total Dissolved Solids	mg/L	2,000	2,200	2,100	2,300	2,100	2,400	2,100	2,300	2,000	2,200	2,100	2,300	2,200	2,200

**Notes:**

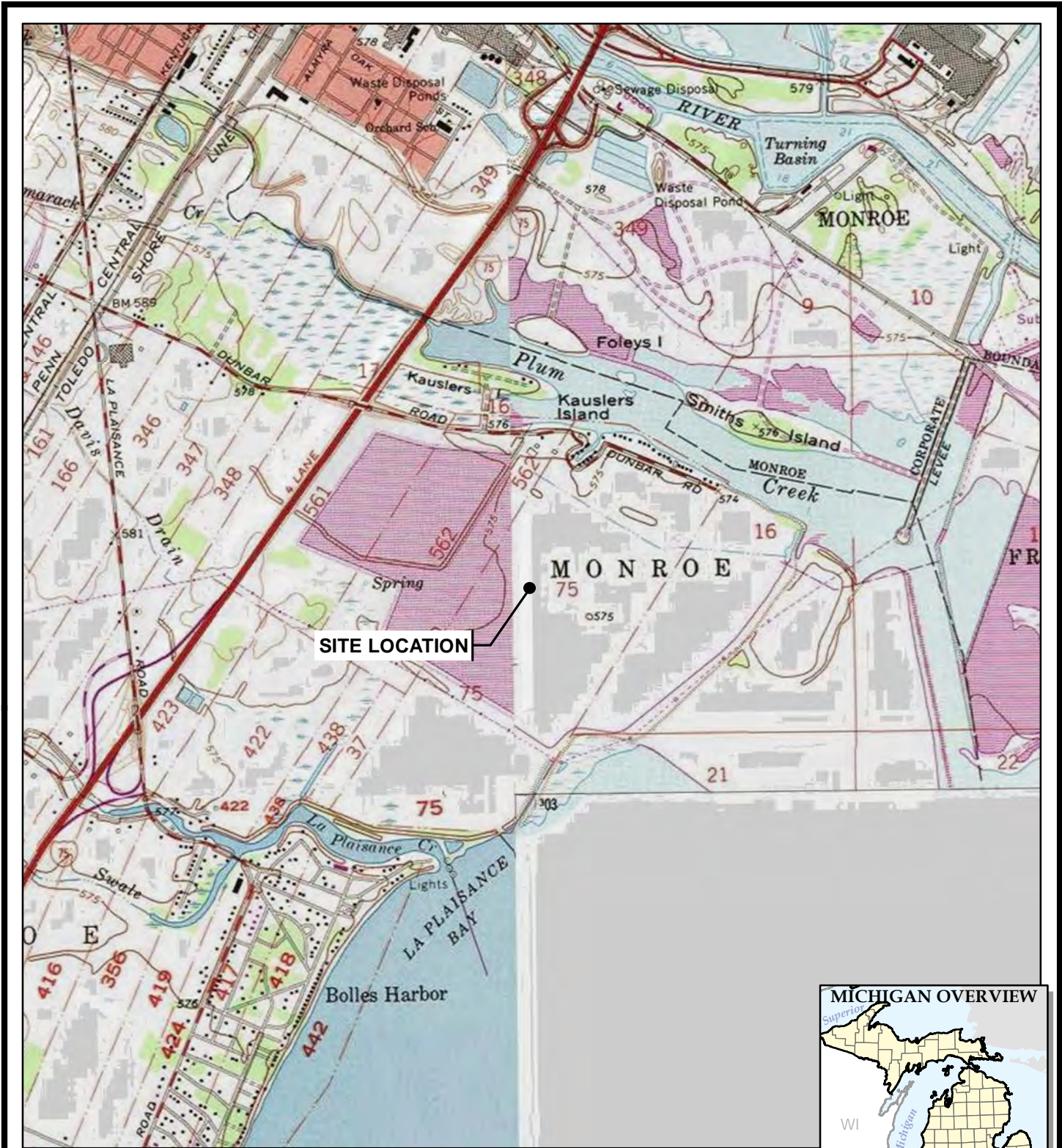
ug/L - micrograms per liter.

mg/L - milligrams per liter.

SU - standard units; pH is a field parameter.

All metals were analyzed as total unless otherwise specified.

# Figures



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.




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MONROE POWER PLANT  
FLY ASH BASIN AND VERTICAL EXTENSION LANDFILL  
7955 EAST DUNBAR ROAD  
MONROE, MICHIGAN**

TITLE: **SITE LOCATION MAP**




DRAWN BY: A. FOJTIK  
CHECKED BY: H. SCHNAIDT  
APPROVED BY: H. SCHNAIDT  
DATE: JANUARY 2023  
PROJ. NO.: 461816.0001  
FILE: 461816-0001-004SLM.mxd

**FIGURE 1**

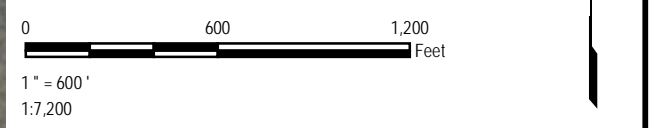
Plot Date: 1/4/2023, 11:19:06 AM by RSUEMNICHT -- LAYOUT: ANS1B(11"x17")  
 Path: S:\1-PROJECTS\SDTE\_Energy\MonroeML\_P\461816\_000\1\461816\_005\_MNSP.mxd  
 Coordinate System: NAD 1983 UTM Zone 17N (Meter)  
 Map Rotation: 0  
 TRC - GIS




**LEGEND**

-  MONITORING WELLS
-  APPROXIMATE BOUNDARY OF FLY ASH BASIN
-  APPROXIMATE BOUNDARY OF VERTICAL EXTENSION LANDFILL

- NOTES**
- BASE MAP IMAGERY FROM GOOGLE EARTH PRO, 2021.
  - WELL LOCATIONS SURVEYED BY BMJ ENGINEERS AND SURVEYORS INC. IN MARCH AND MAY 2016.









PROJECT:		DTE ELECTRIC COMPANY MONROE POWER PLANT FLY ASH BASIN AND VERTICAL EXTENSION LANDFILL 7955 EAST DUNBAR ROAD MONROE, MICHIGAN	
TITLE: <b>MONITORING NETWORK AND SITE PLAN</b>			
DRAWN BY:	A. ADAIR	PROJ NO.:	461816.0001
CHECKED BY:	H. SCHNAIDT	<b>FIGURE 2</b>	
APPROVED BY:	V. BUENING		
DATE:	JANUARY 2023		
		1540 Eisenhower Place Ann Arbor, MI 48108-3284 Phone: 734.971.7080 www.trccompanies.com	
FILE NO.:		461816_005_MNSP.mxd	

Plot Date: 1/5/2023 08:34:59 AM by RSUEMNICHT -- LAYOUT: ANSI B(11"x17")  
 Path: S:\1-PROJECTS\DTE\_Energy\Monroe\ML\_PP\461816\_000\1\461816\_006\_APRGW.mxd  
 Coordinate System: NAD 1983 UTM Zone 17N (Meter)  
 Map Rotation: 0  
 TRC - GIS

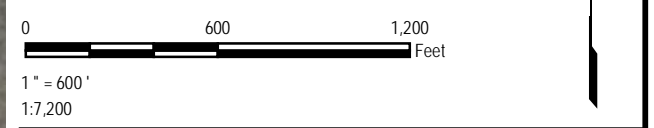


**LEGEND**

-  MONITORING WELL
-  APPROXIMATE BOUNDARY OF FLY ASH BASIN
-  APPROXIMATE BOUNDARY OF VERTICAL EXTENSION LANDFILL
-  POTENTIOMETRIC SURFACE CONTOUR
-  INFERRED POTENTIOMETRIC SURFACE CONTOUR
-  INFERRED GROUNDWATER FLOW DIRECTION

**(582.84)** STATIC WATER ELEVATION IN FEET (NAVD, 1988)

- NOTES**
1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO, 2021.
  2. WELL LOCATIONS SURVEYED BY BMJ ENGINEERS AND SURVEYORS INC. IN MARCH AND MAY 2016.
  3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.



PROJECT: DTE ELECTRIC COMPANY MONROE POWER PLANT FLY ASH BASIN AND VERTICAL EXTENSION LANDFILL 7955 EAST DUNBAR ROAD MONROE, MICHIGAN	
TITLE: <b>POTENTIOMETRIC SURFACE MAP APRIL 2022</b>	
DRAWN BY: A. ADAIR	PROJ NO.: 461816.0001
CHECKED BY: H. SCHNAIDT	<b>FIGURE 3</b>
APPROVED BY: V. BUENING	
DATE: JANUARY 2023	









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FILE NO.: 461816\_006\_APRGW.mxd

Plot Date: 1/5/2023 12:08:06 PM by RSUEMNICHT -- LAYOUT: ANSIB(11"x17")  
 Path: S:\1-PROJECTS\SDTE\_Energy\MonroeML\_P\461816\_0001\461816\_007\_OCTGW.mxd  
 Coordinate System: NAD 1983 UTM Zone 17N (Meter)  
 Map Rotation: 0  
 TRC - GIS

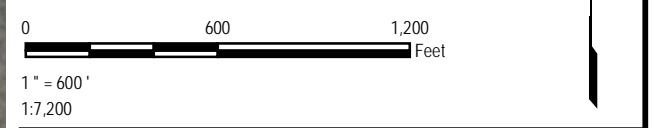


**LEGEND**

-  MONITORING WELL
-  APPROXIMATE BOUNDARY OF FLY ASH BASIN
-  APPROXIMATE BOUNDARY OF VERTICAL EXTENSION LANDFILL
-  POTENTIOMETRIC SURFACE CONTOUR
-  INFERRED POTENTIOMETRIC SURFACE CONTOUR
-  INFERRED GROUNDWATER FLOW DIRECTION

**(582.84)** STATIC WATER ELEVATION IN FEET (NAVD, 1988)

- NOTES**
1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO, 2021.
  2. WELL LOCATIONS SURVEYED BY BMJ ENGINEERS AND SURVEYORS INC. IN MARCH AND MAY 2016.
  3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.



PROJECT: DTE ELECTRIC COMPANY MONROE POWER PLANT FLY ASH BASIN AND VERTICAL EXTENSION LANDFILL 7955 EAST DUNBAR ROAD MONROE, MICHIGAN	
TITLE: POTENTIOMETRIC SURFACE MAP OCTOBER 2022	
DRAWN BY: A. ADAIR	PROJ NO.: 461816.0001
CHECKED BY: H. SCHNAIDT	<b>FIGURE 4</b>
APPROVED BY: V. BUENING	
DATE: JANUARY 2023	



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

FILE NO.: 461816\_007\_OCTGW.mxd



# Appendix A Laboratory Reports

## ANALYTICAL REPORT

Eurofins Canton  
180 S. Van Buren Avenue  
Barberton, OH 44203  
Tel: (330)497-9396

Laboratory Job ID: 240-164756-1

Client Project/Site: CCR DTE Monroe Power FAB/VEL

**For:**

TRC Environmental Corporation.  
1540 Eisenhower Place  
Ann Arbor, Michigan 48108-7080

Attn: Mr. Vincent Buening



Authorized for release by:  
4/26/2022 6:43:25 PM

Patrick O'Meara, Manager of Project Management  
(330)966-5725

[Patrick.O'Meara@et.eurofinsus.com](mailto:Patrick.O'Meara@et.eurofinsus.com)

Designee for

Kris Brooks, Project Manager II  
(330)966-9790

[Kris.Brooks@et.eurofinsus.com](mailto:Kris.Brooks@et.eurofinsus.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

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**Job ID: 240-164756-1**

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**Laboratory: Eurofins Canton**

---

**Narrative**

**Job Narrative  
240-164756-1**

**Comments**

The SW846 Method 6010D Metals (ICP) and SW-846 Method 6020B ICPMS analyses were performed at the Eurofins Cedar Falls laboratory.

**Receipt**

The samples were received on 4/8/2022 @ 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 0.2° C and 0.4° C.

**Metals**

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

**General Chemistry**

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

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# Method Summary

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	TAL CF
6020B	Metals (ICP/MS)	SW846	TAL CF
9056A	Anions, Ion Chromatography	SW846	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Metals	SW846	TAL CF

#### 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:

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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

# Sample Summary

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-164756-1	MW-16-01_20220405	Water	04/05/22 12:25	04/08/22 08:00
240-164756-2	MW-16-02_20220406	Water	04/06/22 14:11	04/08/22 08:00
240-164756-3	MW-16-03_20220406	Water	04/06/22 15:00	04/08/22 08:00
240-164756-4	MW-16-04_20220406	Water	04/06/22 16:43	04/08/22 08:00
240-164756-5	MW-16-05_20220406	Water	04/06/22 14:15	04/08/22 08:00
240-164756-6	MW-16-06_20220406	Water	04/06/22 13:05	04/08/22 08:00
240-164756-7	MW-16-07_20220406	Water	04/06/22 16:25	04/08/22 08:00
240-164756-8	DUP-01_20220406	Water	04/06/22 00:00	04/08/22 08:00
240-164756-9	MP-001F_20220406	Water	04/06/22 11:30	04/08/22 08:00

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# Detection Summary

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

## Client Sample ID: MW-16-01\_20220405

## Lab Sample ID: 240-164756-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	240		100	56	ug/L	1		6010D	Total/NA
Calcium	420000		1000	190	ug/L	1		6020B	Total/NA
Iron	120		100	36	ug/L	1		6020B	Total/NA
Chloride	10		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.6		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1300		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2000		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-02\_20220406

## Lab Sample ID: 240-164756-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	390		100	56	ug/L	1		6010D	Total/NA
Calcium	410000		1000	190	ug/L	1		6020B	Total/NA
Iron	390		100	36	ug/L	1		6020B	Total/NA
Chloride	13		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1500		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2100		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-03\_20220406

## Lab Sample ID: 240-164756-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	420		100	56	ug/L	1		6010D	Total/NA
Calcium	420000		1000	190	ug/L	1		6020B	Total/NA
Iron	1000		100	36	ug/L	1		6020B	Total/NA
Chloride	18		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1500		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2100		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-04\_20220406

## Lab Sample ID: 240-164756-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	140		100	56	ug/L	1		6010D	Total/NA
Calcium	550000		10000	1900	ug/L	10		6020B	Total/NA
Iron	43	J	100	36	ug/L	1		6020B	Total/NA
Chloride	33		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	0.95		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1300		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	1900		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-05\_20220406

## Lab Sample ID: 240-164756-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	200		100	56	ug/L	1		6010D	Total/NA
Calcium	420000		10000	1900	ug/L	10		6020B	Total/NA
Iron	1100		100	36	ug/L	1		6020B	Total/NA
Chloride	11		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1400		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2000		20	20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton



# Detection Summary

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

## Client Sample ID: MW-16-06\_20220406

## Lab Sample ID: 240-164756-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	310		100	56	ug/L	1		6010D	Total/NA
Calcium	400000		10000	1900	ug/L	10		6020B	Total/NA
Iron	650		100	36	ug/L	1		6020B	Total/NA
Chloride	11		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.5		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1500		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2100		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-07\_20220406

## Lab Sample ID: 240-164756-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	180		100	56	ug/L	1		6010D	Total/NA
Calcium	420000		10000	1900	ug/L	10		6020B	Total/NA
Iron	790		100	36	ug/L	1		6020B	Total/NA
Chloride	7.6		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1400		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2000		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: DUP-01\_20220406

## Lab Sample ID: 240-164756-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	430		100	56	ug/L	1		6010D	Total/NA
Calcium	380000		10000	1900	ug/L	10		6020B	Total/NA
Iron	1000		100	36	ug/L	1		6020B	Total/NA
Chloride	18		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1500		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2200		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MP-001F\_20220406

## Lab Sample ID: 240-164756-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1400		100	56	ug/L	1		6010D	Total/NA
Calcium	180000		10000	1900	ug/L	10		6020B	Total/NA
Iron	670		100	36	ug/L	1		6020B	Total/NA
Chloride	33		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	0.56		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	450		5.0	5.0	mg/L	5		9056A	Total/NA
Total Dissolved Solids	810		10	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

# Client Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-01\_20220405**

**Lab Sample ID: 240-164756-1**

Date Collected: 04/05/22 12:25

Matrix: Water

Date Received: 04/08/22 08:00

**Method: 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	240		100	56	ug/L		04/15/22 09:00	04/18/22 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	420000		1000	190	ug/L		04/14/22 09:00	04/22/22 21:48	1
Iron	120		100	36	ug/L		04/14/22 09:00	04/22/22 21:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	1.0	mg/L			04/13/22 10:45	1
Fluoride	1.6		0.050	0.050	mg/L			04/13/22 10:45	1
Sulfate	1300		10	10	mg/L			04/13/22 12:25	10
Total Dissolved Solids	2000		20	20	mg/L			04/11/22 09:21	1

# Client Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-02\_20220406**

**Lab Sample ID: 240-164756-2**

Date Collected: 04/06/22 14:11

Matrix: Water

Date Received: 04/08/22 08:00

**Method: 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	390		100	56	ug/L		04/15/22 09:00	04/18/22 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	410000		1000	190	ug/L		04/14/22 09:00	04/22/22 22:07	1
Iron	390		100	36	ug/L		04/14/22 09:00	04/22/22 22:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	1.0	mg/L			04/14/22 21:47	1
Fluoride	1.4		0.050	0.050	mg/L			04/13/22 12:46	1
Sulfate	1500		10	10	mg/L			04/13/22 13:06	10
Total Dissolved Solids	2100		20	20	mg/L			04/11/22 09:21	1

# Client Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-03\_20220406**

**Lab Sample ID: 240-164756-3**

Date Collected: 04/06/22 15:00

Matrix: Water

Date Received: 04/08/22 08:00

**Method: 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	420		100	56	ug/L		04/15/22 09:00	04/18/22 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	420000		1000	190	ug/L		04/14/22 09:00	04/22/22 22:11	1
Iron	1000		100	36	ug/L		04/14/22 09:00	04/22/22 22:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		1.0	1.0	mg/L			04/13/22 13:26	1
Fluoride	1.4		0.050	0.050	mg/L			04/13/22 13:26	1
Sulfate	1500		10	10	mg/L			04/13/22 13:46	10
Total Dissolved Solids	2100		20	20	mg/L			04/11/22 09:21	1

# Client Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-04\_20220406**

**Lab Sample ID: 240-164756-4**

Date Collected: 04/06/22 16:43

Matrix: Water

Date Received: 04/08/22 08:00

**Method: 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	140		100	56	ug/L		04/15/22 09:00	04/18/22 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	550000		10000	1900	ug/L		04/14/22 09:00	04/25/22 23:24	10
Iron	43	J	100	36	ug/L		04/14/22 09:00	04/22/22 22:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		1.0	1.0	mg/L			04/13/22 14:06	1
Fluoride	0.95		0.050	0.050	mg/L			04/13/22 14:06	1
Sulfate	1300		10	10	mg/L			04/13/22 14:26	10
Total Dissolved Solids	1900		20	20	mg/L			04/12/22 07:26	1

# Client Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-05\_20220406**

**Lab Sample ID: 240-164756-5**

Date Collected: 04/06/22 14:15

Matrix: Water

Date Received: 04/08/22 08:00

**Method: 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	200		100	56	ug/L		04/15/22 09:00	04/18/22 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	420000		10000	1900	ug/L		04/14/22 09:00	04/25/22 23:44	10
Iron	1100		100	36	ug/L		04/14/22 09:00	04/22/22 22:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	1.0	mg/L			04/13/22 14:46	1
Fluoride	1.4		0.050	0.050	mg/L			04/13/22 14:46	1
Sulfate	1400		10	10	mg/L			04/13/22 15:06	10
Total Dissolved Solids	2000		20	20	mg/L			04/12/22 07:26	1

# Client Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-06\_20220406**

**Lab Sample ID: 240-164756-6**

Date Collected: 04/06/22 13:05

Matrix: Water

Date Received: 04/08/22 08:00

**Method: 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	310		100	56	ug/L		04/15/22 09:00	04/18/22 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400000		10000	1900	ug/L		04/14/22 09:00	04/25/22 23:48	10
Iron	650		100	36	ug/L		04/14/22 09:00	04/22/22 22:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	1.0	mg/L			04/13/22 16:07	1
Fluoride	1.5		0.050	0.050	mg/L			04/13/22 16:07	1
Sulfate	1500		10	10	mg/L			04/13/22 16:27	10
Total Dissolved Solids	2100		20	20	mg/L			04/12/22 07:26	1

# Client Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-07\_20220406**

**Lab Sample ID: 240-164756-7**

Date Collected: 04/06/22 16:25

Matrix: Water

Date Received: 04/08/22 08:00

**Method: 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	180		100	56	ug/L		04/15/22 09:00	04/18/22 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	420000		10000	1900	ug/L		04/14/22 09:00	04/25/22 23:52	10
Iron	790		100	36	ug/L		04/14/22 09:00	04/22/22 22:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6		1.0	1.0	mg/L			04/13/22 16:47	1
Fluoride	1.4		0.050	0.050	mg/L			04/13/22 16:47	1
Sulfate	1400		10	10	mg/L			04/13/22 17:07	10
Total Dissolved Solids	2000		20	20	mg/L			04/12/22 07:26	1



# Client Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: DUP-01\_20220406**

**Lab Sample ID: 240-164756-8**

Date Collected: 04/06/22 00:00

Matrix: Water

Date Received: 04/08/22 08:00

**Method: 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	430		100	56	ug/L		04/15/22 09:00	04/18/22 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380000		10000	1900	ug/L		04/14/22 09:00	04/25/22 23:56	10
Iron	1000		100	36	ug/L		04/14/22 09:00	04/22/22 22:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		1.0	1.0	mg/L			04/13/22 17:27	1
Fluoride	1.4		0.050	0.050	mg/L			04/13/22 17:27	1
Sulfate	1500		10	10	mg/L			04/13/22 17:47	10
Total Dissolved Solids	2200		20	20	mg/L			04/12/22 07:26	1

# Client Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MP-001F\_20220406**

**Lab Sample ID: 240-164756-9**

Date Collected: 04/06/22 11:30

Matrix: Water

Date Received: 04/08/22 08:00

**Method: 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1400		100	56	ug/L		04/15/22 09:00	04/18/22 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	180000		10000	1900	ug/L		04/14/22 09:00	04/26/22 00:00	10
Iron	670		100	36	ug/L		04/14/22 09:00	04/22/22 22:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		1.0	1.0	mg/L			04/13/22 18:07	1
Fluoride	0.56		0.050	0.050	mg/L			04/13/22 18:07	1
Sulfate	450		5.0	5.0	mg/L			04/13/22 18:28	5
Total Dissolved Solids	810		10	10	mg/L			04/12/22 07:26	1

# QC Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

## Method: 6010D - Metals (ICP)

**Lab Sample ID: MB 310-349919/1-A**  
**Matrix: Water**  
**Analysis Batch: 350312**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 349919**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U ^+	100	56	ug/L		04/15/22 09:00	04/18/22 14:04	1

**Lab Sample ID: LCS 310-349919/2-A**  
**Matrix: Water**  
**Analysis Batch: 350312**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 349919**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2000	2020	^+	ug/L		101	80 - 120

**Lab Sample ID: 240-164756-4 DU**  
**Matrix: Water**  
**Analysis Batch: 350312**

**Client Sample ID: MW-16-04\_20220406**  
**Prep Type: Total/NA**  
**Prep Batch: 349919**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	140		145		ug/L		0.2	20

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

**Lab Sample ID: MB 310-349468/1-A**  
**Matrix: Water**  
**Analysis Batch: 350843**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 349468**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	190	ug/L		04/14/22 09:00	04/22/22 21:40	1
Iron	100	U	100	36	ug/L		04/14/22 09:00	04/22/22 21:40	1

**Lab Sample ID: LCS 310-349468/2-A**  
**Matrix: Water**  
**Analysis Batch: 350843**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 349468**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2000	1900		ug/L		95	80 - 120
Iron	200	209		ug/L		105	80 - 120

**Lab Sample ID: 240-164756-1 MS**  
**Matrix: Water**  
**Analysis Batch: 350843**

**Client Sample ID: MW-16-01\_20220405**  
**Prep Type: Total/NA**  
**Prep Batch: 349468**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	420000		2000	419000	4	ug/L		150	75 - 125
Iron	120		200	337		ug/L		107	75 - 125

**Lab Sample ID: 240-164756-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 350843**

**Client Sample ID: MW-16-01\_20220405**  
**Prep Type: Total/NA**  
**Prep Batch: 349468**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	420000		2000	422000	4	ug/L		281	75 - 125	1	20
Iron	120		200	350		ug/L		113	75 - 125	4	20

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# QC Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

## Method: 9056A - Anions, Ion Chromatography

**Lab Sample ID: MB 240-522502/3**  
**Matrix: Water**  
**Analysis Batch: 522502**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	1.0	mg/L			04/13/22 04:02	1
Fluoride	0.050	U	0.050	0.050	mg/L			04/13/22 04:02	1
Sulfate	1.0	U	1.0	1.0	mg/L			04/13/22 04:02	1

**Lab Sample ID: LCS 240-522502/4**  
**Matrix: Water**  
**Analysis Batch: 522502**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.7		mg/L		99	90 - 110
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	51.6		mg/L		103	90 - 110

**Lab Sample ID: 240-164756-1 MS**  
**Matrix: Water**  
**Analysis Batch: 522502**

**Client Sample ID: MW-16-01\_20220405**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10		50.0	60.3		mg/L		100	80 - 120
Fluoride	1.6		2.50	3.88		mg/L		90	80 - 120

**Lab Sample ID: 240-164756-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 522502**

**Client Sample ID: MW-16-01\_20220405**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10		50.0	59.4		mg/L		99	80 - 120	1	15
Fluoride	1.6		2.50	3.75		mg/L		85	80 - 120	3	15

**Lab Sample ID: MB 240-522802/3**  
**Matrix: Water**  
**Analysis Batch: 522802**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	1.0	mg/L			04/14/22 12:33	1
Fluoride	0.050	U	0.050	0.050	mg/L			04/14/22 12:33	1
Sulfate	1.0	U	1.0	1.0	mg/L			04/14/22 12:33	1

**Lab Sample ID: LCS 240-522802/4**  
**Matrix: Water**  
**Analysis Batch: 522802**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.7		mg/L		99	90 - 110
Fluoride	2.50	2.61		mg/L		104	90 - 110
Sulfate	50.0	51.1		mg/L		102	90 - 110

# QC Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

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

**Lab Sample ID: MB 240-522294/1**  
**Matrix: Water**  
**Analysis Batch: 522294**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	10	mg/L			04/11/22 09:21	1

**Lab Sample ID: LCS 240-522294/2**  
**Matrix: Water**  
**Analysis Batch: 522294**

**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	150	135		mg/L		90	80 - 120

**Lab Sample ID: MB 240-522397/1**  
**Matrix: Water**  
**Analysis Batch: 522397**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	10	mg/L			04/12/22 07:26	1

**Lab Sample ID: LCS 240-522397/2**  
**Matrix: Water**  
**Analysis Batch: 522397**

**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	150	126		mg/L		84	80 - 120

# QC Association Summary

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

## Metals

### Prep Batch: 349468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-1	MW-16-01_20220405	Total/NA	Water	3005A	
240-164756-2	MW-16-02_20220406	Total/NA	Water	3005A	
240-164756-3	MW-16-03_20220406	Total/NA	Water	3005A	
240-164756-4	MW-16-04_20220406	Total/NA	Water	3005A	
240-164756-5	MW-16-05_20220406	Total/NA	Water	3005A	
240-164756-6	MW-16-06_20220406	Total/NA	Water	3005A	
240-164756-7	MW-16-07_20220406	Total/NA	Water	3005A	
240-164756-8	DUP-01_20220406	Total/NA	Water	3005A	
240-164756-9	MP-001F_20220406	Total/NA	Water	3005A	
MB 310-349468/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-349468/2-A	Lab Control Sample	Total/NA	Water	3005A	
240-164756-1 MS	MW-16-01_20220405	Total/NA	Water	3005A	
240-164756-1 MSD	MW-16-01_20220405	Total/NA	Water	3005A	

### Prep Batch: 349919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-1	MW-16-01_20220405	Total/NA	Water	3005A	
240-164756-2	MW-16-02_20220406	Total/NA	Water	3005A	
240-164756-3	MW-16-03_20220406	Total/NA	Water	3005A	
240-164756-4	MW-16-04_20220406	Total/NA	Water	3005A	
240-164756-5	MW-16-05_20220406	Total/NA	Water	3005A	
240-164756-6	MW-16-06_20220406	Total/NA	Water	3005A	
240-164756-7	MW-16-07_20220406	Total/NA	Water	3005A	
240-164756-8	DUP-01_20220406	Total/NA	Water	3005A	
240-164756-9	MP-001F_20220406	Total/NA	Water	3005A	
MB 310-349919/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-349919/2-A	Lab Control Sample	Total/NA	Water	3005A	
240-164756-4 DU	MW-16-04_20220406	Total/NA	Water	3005A	

### Analysis Batch: 350312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-1	MW-16-01_20220405	Total/NA	Water	6010D	349919
240-164756-2	MW-16-02_20220406	Total/NA	Water	6010D	349919
240-164756-3	MW-16-03_20220406	Total/NA	Water	6010D	349919
240-164756-4	MW-16-04_20220406	Total/NA	Water	6010D	349919
240-164756-5	MW-16-05_20220406	Total/NA	Water	6010D	349919
240-164756-6	MW-16-06_20220406	Total/NA	Water	6010D	349919
240-164756-7	MW-16-07_20220406	Total/NA	Water	6010D	349919
240-164756-8	DUP-01_20220406	Total/NA	Water	6010D	349919
240-164756-9	MP-001F_20220406	Total/NA	Water	6010D	349919
MB 310-349919/1-A	Method Blank	Total/NA	Water	6010D	349919
LCS 310-349919/2-A	Lab Control Sample	Total/NA	Water	6010D	349919
240-164756-4 DU	MW-16-04_20220406	Total/NA	Water	6010D	349919

### Analysis Batch: 350843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-1	MW-16-01_20220405	Total/NA	Water	6020B	349468
240-164756-2	MW-16-02_20220406	Total/NA	Water	6020B	349468
240-164756-3	MW-16-03_20220406	Total/NA	Water	6020B	349468
240-164756-4	MW-16-04_20220406	Total/NA	Water	6020B	349468
240-164756-5	MW-16-05_20220406	Total/NA	Water	6020B	349468

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# QC Association Summary

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

## Metals (Continued)

### Analysis Batch: 350843 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-6	MW-16-06_20220406	Total/NA	Water	6020B	349468
240-164756-7	MW-16-07_20220406	Total/NA	Water	6020B	349468
240-164756-8	DUP-01_20220406	Total/NA	Water	6020B	349468
240-164756-9	MP-001F_20220406	Total/NA	Water	6020B	349468
MB 310-349468/1-A	Method Blank	Total/NA	Water	6020B	349468
LCS 310-349468/2-A	Lab Control Sample	Total/NA	Water	6020B	349468
240-164756-1 MS	MW-16-01_20220405	Total/NA	Water	6020B	349468
240-164756-1 MSD	MW-16-01_20220405	Total/NA	Water	6020B	349468

### Analysis Batch: 351050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-4	MW-16-04_20220406	Total/NA	Water	6020B	349468
240-164756-5	MW-16-05_20220406	Total/NA	Water	6020B	349468
240-164756-6	MW-16-06_20220406	Total/NA	Water	6020B	349468
240-164756-7	MW-16-07_20220406	Total/NA	Water	6020B	349468
240-164756-8	DUP-01_20220406	Total/NA	Water	6020B	349468
240-164756-9	MP-001F_20220406	Total/NA	Water	6020B	349468

## General Chemistry

### Analysis Batch: 522294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-1	MW-16-01_20220405	Total/NA	Water	SM 2540C	
240-164756-2	MW-16-02_20220406	Total/NA	Water	SM 2540C	
240-164756-3	MW-16-03_20220406	Total/NA	Water	SM 2540C	
MB 240-522294/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-522294/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 522397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-4	MW-16-04_20220406	Total/NA	Water	SM 2540C	
240-164756-5	MW-16-05_20220406	Total/NA	Water	SM 2540C	
240-164756-6	MW-16-06_20220406	Total/NA	Water	SM 2540C	
240-164756-7	MW-16-07_20220406	Total/NA	Water	SM 2540C	
240-164756-8	DUP-01_20220406	Total/NA	Water	SM 2540C	
240-164756-9	MP-001F_20220406	Total/NA	Water	SM 2540C	
MB 240-522397/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-522397/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 522502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-1	MW-16-01_20220405	Total/NA	Water	9056A	
240-164756-1	MW-16-01_20220405	Total/NA	Water	9056A	
240-164756-2	MW-16-02_20220406	Total/NA	Water	9056A	
240-164756-2	MW-16-02_20220406	Total/NA	Water	9056A	
240-164756-3	MW-16-03_20220406	Total/NA	Water	9056A	
240-164756-3	MW-16-03_20220406	Total/NA	Water	9056A	
240-164756-4	MW-16-04_20220406	Total/NA	Water	9056A	
240-164756-4	MW-16-04_20220406	Total/NA	Water	9056A	
240-164756-5	MW-16-05_20220406	Total/NA	Water	9056A	
240-164756-5	MW-16-05_20220406	Total/NA	Water	9056A	

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# QC Association Summary

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

## General Chemistry (Continued)

### Analysis Batch: 522502 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-6	MW-16-06_20220406	Total/NA	Water	9056A	
240-164756-6	MW-16-06_20220406	Total/NA	Water	9056A	
240-164756-7	MW-16-07_20220406	Total/NA	Water	9056A	
240-164756-7	MW-16-07_20220406	Total/NA	Water	9056A	
240-164756-8	DUP-01_20220406	Total/NA	Water	9056A	
240-164756-8	DUP-01_20220406	Total/NA	Water	9056A	
240-164756-9	MP-001F_20220406	Total/NA	Water	9056A	
240-164756-9	MP-001F_20220406	Total/NA	Water	9056A	
MB 240-522502/3	Method Blank	Total/NA	Water	9056A	
LCS 240-522502/4	Lab Control Sample	Total/NA	Water	9056A	
240-164756-1 MS	MW-16-01_20220405	Total/NA	Water	9056A	
240-164756-1 MSD	MW-16-01_20220405	Total/NA	Water	9056A	

### Analysis Batch: 522802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164756-2	MW-16-02_20220406	Total/NA	Water	9056A	
MB 240-522802/3	Method Blank	Total/NA	Water	9056A	
LCS 240-522802/4	Lab Control Sample	Total/NA	Water	9056A	



# Lab Chronicle

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-01\_20220405**

**Lab Sample ID: 240-164756-1**

**Date Collected: 04/05/22 12:25**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349919	04/15/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6010D		1	350312	04/18/22 14:50	CTB	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		1	350843	04/22/22 21:48	SAP	TAL CF
Total/NA	Analysis	9056A		1	522502	04/13/22 10:45	JMB	TAL CAN
Total/NA	Analysis	9056A		10	522502	04/13/22 12:25	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	522294	04/11/22 09:21	KMS	TAL CAN

**Client Sample ID: MW-16-02\_20220406**

**Lab Sample ID: 240-164756-2**

**Date Collected: 04/06/22 14:11**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349919	04/15/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6010D		1	350312	04/18/22 14:52	CTB	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		1	350843	04/22/22 22:07	SAP	TAL CF
Total/NA	Analysis	9056A		1	522802	04/14/22 21:47	JMB	TAL CAN
Total/NA	Analysis	9056A		1	522502	04/13/22 12:46	JMB	TAL CAN
Total/NA	Analysis	9056A		10	522502	04/13/22 13:06	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	522294	04/11/22 09:21	KMS	TAL CAN

**Client Sample ID: MW-16-03\_20220406**

**Lab Sample ID: 240-164756-3**

**Date Collected: 04/06/22 15:00**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349919	04/15/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6010D		1	350312	04/18/22 14:54	CTB	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		1	350843	04/22/22 22:11	SAP	TAL CF
Total/NA	Analysis	9056A		1	522502	04/13/22 13:26	JMB	TAL CAN
Total/NA	Analysis	9056A		10	522502	04/13/22 13:46	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	522294	04/11/22 09:21	KMS	TAL CAN

**Client Sample ID: MW-16-04\_20220406**

**Lab Sample ID: 240-164756-4**

**Date Collected: 04/06/22 16:43**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349919	04/15/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6010D		1	350312	04/18/22 15:00	CTB	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		1	350843	04/22/22 22:31	SAP	TAL CF

# Lab Chronicle

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-04\_20220406**

**Lab Sample ID: 240-164756-4**

**Date Collected: 04/06/22 16:43**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		10	351050	04/25/22 23:24	SAP	TAL CF
Total/NA	Analysis	9056A		1	522502	04/13/22 14:06	JMB	TAL CAN
Total/NA	Analysis	9056A		10	522502	04/13/22 14:26	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	522397	04/12/22 07:26	AJ	TAL CAN

**Client Sample ID: MW-16-05\_20220406**

**Lab Sample ID: 240-164756-5**

**Date Collected: 04/06/22 14:15**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349919	04/15/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6010D		1	350312	04/18/22 15:04	CTB	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		1	350843	04/22/22 22:35	SAP	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		10	351050	04/25/22 23:44	SAP	TAL CF
Total/NA	Analysis	9056A		1	522502	04/13/22 14:46	JMB	TAL CAN
Total/NA	Analysis	9056A		10	522502	04/13/22 15:06	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	522397	04/12/22 07:26	AJ	TAL CAN

**Client Sample ID: MW-16-06\_20220406**

**Lab Sample ID: 240-164756-6**

**Date Collected: 04/06/22 13:05**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349919	04/15/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6010D		1	350312	04/18/22 15:06	CTB	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		1	350843	04/22/22 22:39	SAP	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		10	351050	04/25/22 23:48	SAP	TAL CF
Total/NA	Analysis	9056A		1	522502	04/13/22 16:07	JMB	TAL CAN
Total/NA	Analysis	9056A		10	522502	04/13/22 16:27	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	522397	04/12/22 07:26	AJ	TAL CAN

**Client Sample ID: MW-16-07\_20220406**

**Lab Sample ID: 240-164756-7**

**Date Collected: 04/06/22 16:25**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349919	04/15/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6010D		1	350312	04/18/22 15:08	CTB	TAL CF

# Lab Chronicle

Client: TRC Environmental Corporation.  
Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

**Client Sample ID: MW-16-07\_20220406**

**Lab Sample ID: 240-164756-7**

**Date Collected: 04/06/22 16:25**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		1	350843	04/22/22 22:43	SAP	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		10	351050	04/25/22 23:52	SAP	TAL CF
Total/NA	Analysis	9056A		1	522502	04/13/22 16:47	JMB	TAL CAN
Total/NA	Analysis	9056A		10	522502	04/13/22 17:07	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	522397	04/12/22 07:26	AJ	TAL CAN

**Client Sample ID: DUP-01\_20220406**

**Lab Sample ID: 240-164756-8**

**Date Collected: 04/06/22 00:00**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349919	04/15/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6010D		1	350312	04/18/22 15:10	CTB	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		1	350843	04/22/22 22:46	SAP	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		10	351050	04/25/22 23:56	SAP	TAL CF
Total/NA	Analysis	9056A		1	522502	04/13/22 17:27	JMB	TAL CAN
Total/NA	Analysis	9056A		10	522502	04/13/22 17:47	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	522397	04/12/22 07:26	AJ	TAL CAN

**Client Sample ID: MP-001F\_20220406**

**Lab Sample ID: 240-164756-9**

**Date Collected: 04/06/22 11:30**

**Matrix: Water**

**Date Received: 04/08/22 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			349919	04/15/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6010D		1	350312	04/18/22 15:12	CTB	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		1	350843	04/22/22 22:50	SAP	TAL CF
Total/NA	Prep	3005A			349468	04/14/22 09:00	ACM2	TAL CF
Total/NA	Analysis	6020B		10	351050	04/26/22 00:00	SAP	TAL CF
Total/NA	Analysis	9056A		1	522502	04/13/22 18:07	JMB	TAL CAN
Total/NA	Analysis	9056A		5	522502	04/13/22 18:28	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	522397	04/12/22 07:26	AJ	TAL CAN

### Laboratory References:

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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

# Accreditation/Certification Summary

Client: TRC Environmental Corporation.  
 Project/Site: CCR DTE Monroe Power FAB/VEL

Job ID: 240-164756-1

## Laboratory: Eurofins Canton

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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22 *
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	11-06-22
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	04-20-22
Oregon	NELAP	4062	04-20-22
Pennsylvania	NELAP	68-00340	04-24-22
Texas	NELAP	T104704517-22-16	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

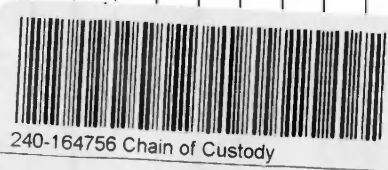
## Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-22
Georgia	State	IA100001 (OR)	09-29-22
Illinois	NELAP	200024	11-29-22
Iowa	State	007	12-01-21 *
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-22
Oregon	NELAP	IA100001	09-29-22

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

<b>Client Information</b>		Sample: <u>JAUNE DASS</u>		Lab PM: <u>Brooks, Kris M</u>		Carrier Tracking No(s): <u>240-93655-31715 1</u>	
Client Contact: <u>Chris Scieszka</u>		Phone: <u>7349043310</u>		E-Mail: <u>Kris.Brooks@Eurofinset.com</u>		Page: <u>Page 1 of 1</u>	
Company: <u>TRC Environmental Corporation</u>		PWSID: _____		State of Origin: _____		Job #: _____	
Address: <u>1540 Eisenhower Place</u>		Due Date Requested: _____		Analysis Requested: _____		Preservation Codes:	
City: <u>Ann Arbor</u>		TAT Requested (days): _____		Compliance Project: <u>Δ Yes Δ No</u>		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____	
State, Zip: <u>MI, 48108-7080</u>		PO #: <u>152063</u>		WO #: <u>254222 0001</u>		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone: <u>313-971-7080(Tel) 313-971-9022(Fax)</u>		Project #: <u>24016830</u>		SSOW#: _____		Special Instructions/Note: _____	
Email: <u>C.Scieszka@trccompanies.com</u>		Site: _____		Field Filtered Sample (Yes or No) <u>XXXX</u>		Total Number of Containers: _____	
Project Name: <u>CCR DTE Monroe Plant FABVEL</u>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Site: _____		Sample Date		Sample Time		Matrix (W=water, S=solid, O=soil, BT=ISSUE, A=Air)	
Sample Identification		Sample Date		Sample Time		Preservation Code	
MW-16-01 - 2022 0405		4/5/22		12:35		G Water	
MW-16-02 - 2022 0406		4/6/22		14:45		G Water	
MW-16-03 - 2022 0406		/		15:00		G Water	
MW-16-04 - 2022 0406		/		16:45		G Water	
MW-16-05 - 2022 0406		/		14:15		G Water	
MW-16-06 - 2022 0406		/		13:05		G Water	
MW-16-07 - 2022 0406		/		16:25		G Water	
DUP-01 - 2022 0406		/		—		G Water	
MP-001F - 2022 0406		/		11:30		G Water	
Possible Hazard Identification		Sample Disposal By Lab		Return To Client		Archive For _____ Months	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab		Special Instructions/QC Requirements: _____	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: _____		Time: _____		Method of Shipment: _____	
Relinquished by: _____		Date: <u>4/6/22</u>		Time: _____		Company: <u>TRC</u>	
Relinquished by: _____		Date: <u>4/7/22</u>		Time: _____		Company: <u>TRC</u>	
Relinquished by: _____		Date: <u>4/7/22</u>		Time: <u>13:20</u>		Company: <u>TRC</u>	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____		Date: <u>4-8-22</u>	



Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : \_\_\_\_\_

Canton Facility

Client TAC

Site Name \_\_\_\_\_

Cooler unpacked by: Tamy Boy

Cooler Received on 4-8-22

Opened on 4-8-22

FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper

Client Drop Off \_\_\_\_\_

TestAmerica Courier \_\_\_\_\_

Other \_\_\_\_\_

Receipt After-hours: Drop-off Date/Time \_\_\_\_\_

Storage Location \_\_\_\_\_

TestAmerica Cooler # 1A 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# IR-14 (CF -0.2 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN #IR-15 (CF -0.7°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

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

- 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)? Yes No
- 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

- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Yes ← 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) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_

VOA Sample Preservation - Date/Time VOAs Frozen: \_\_\_\_\_

Login #: \_\_\_\_\_

Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form										
Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)			
TA	Client	Box	Other	IR-14 IR-15	0.6	0.4	Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15	0.4	0.2	Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
TA	Client	Box	Other	IR-14 IR-15			Wet Ice	Blue Ice	Dry Ice	
TA	Client	Box	Other	IR-14 IR-15			Water	None		
							<input type="checkbox"/>	See Temperature Excursion Form		

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

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Temperature readings: \_\_\_\_\_

Client Sample ID	Lab ID	Container Type	Container		Preservative	
			pH	Temp	Added (mls)	Lot #
MW-16-01_20220405	240-164756-A-1	Plastic 500ml - unpreserved				
MW-16-01_20220405	240-164756-B-1	Plastic 500ml - with Nitric Acid	<2			
MW-16-02_20220406	240-164756-A-2	Plastic 250ml - unpreserved				
MW-16-02_20220406	240-164756-B-2	Plastic 250ml - with Nitric Acid	<2			
MW-16-03_20220406	240-164756-A-3	Plastic 250ml - unpreserved				
MW-16-03_20220406	240-164756-B-3	Plastic 250ml - with Nitric Acid	<2			
MW-16-04_20220406	240-164756-A-4	Plastic 250ml - unpreserved				
MW-16-04_20220406	240-164756-B-4	Plastic 250ml - with Nitric Acid	<2			
MW-16-05_20220406	240-164756-A-5	Plastic 250ml - unpreserved				
MW-16-05_20220406	240-164756-B-5	Plastic 250ml - with Nitric Acid	<2			
MW-16-06_20220406	240-164756-A-6	Plastic 250ml - unpreserved				
MW-16-06_20220406	240-164756-B-6	Plastic 250ml - with Nitric Acid	<2			
MW-16-07_20220406	240-164756-A-7	Plastic 250ml - unpreserved				
MW-16-07_20220406	240-164756-B-7	Plastic 250ml - with Nitric Acid	<2			
DUP-01_20220406	240-164756-A-8	Plastic 250ml - unpreserved				
DUP-01_20220406	240-164756-B-8	Plastic 250ml - with Nitric Acid	<2			
MP-001F_20220406	240-164756-A-9	Plastic 250ml - unpreserved				
MP-001F_20220406	240-164756-B-9	Plastic 250ml - with Nitric Acid	<2			





Environment Testing  
America



240-164756 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client <u>Canton</u>			
City/State	CITY <u>Burlington</u>	STATE <u>OH</u>	Project
<b>Receipt Information</b>			
Date/Time Received	DATE <u>4-9-22</u>	TIME <u>1000</u>	Received By <u>PR</u>
Delivery Type <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <u>SAT</u> <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes Cooler ID	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes Cooler # ____ of ____	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes. Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes Which VOA samples are in cooler? ↓	
<b>Temperature Record</b>			
Coolant <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID	<u>N</u>	Correction Factor (°C)	<u>0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C)	<u>—</u>	Corrected Temp (°C)	<u>—</u>
• Sample Container Temperature			
Container(s) used	CONTAINER 1 <u>PI 250 mL</u>	CONTAINER 2 <u>→</u>	
Uncorrected Temp (°C)	<u>11.6</u>	<u>12.0</u>	
Corrected Temp (°C)	<u>11.6</u>	<u>12.0</u>	
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE. If yes, contact PM before proceeding If no, proceed with login			
<b>Additional Comments</b>			
<u>* Metals</u>			

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# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab Pkt: Brooks, Kris M	Center Tracking Net(s):	COC No: 240-150578-1
Shipping/Receiving		Phone: Kris Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Job #: 240-164756-1		
Address: 3019 Venture Way		Preservation Codes:		
City: Cedar Falls	State, Zip: IA, 50613	A HCL M Hexane		
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:	B NaOH N None		
Email:	WO #:	C Zn Acetate O AsNaO2		
Project Name: CCR DTE Monroe Power Plant	Project #: 24016830	D Nitric Acid P Na2OAS		
Site:	SSOW#:	E NaHSO4 C Na2SO3		
		F MeOH R Na2S2O3		
		G Amchlor S H2SO4		
		H Ascorbic Acid T TSP Dodecahydrate		
		I Ice U Acetone		
		J DI Water V MCAA		
		K EDTA W PH 4-5		
		L EDA Z other (specify)		
		Other		
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Special Instructions/Note:</b>		
MW-16-01_20220405 (240-164756-1)	Sample Date: 4/5/22	Sample Time: 12:25 Eastern	Sample Type (C=Comp, G=grab): Water	Matrix (Water, Seawater, Groundwater, Rain): Water
MW-16-02_20220406 (240-164756-2)	Sample Date: 4/6/22	Sample Time: 14:11 Eastern	Sample Type (C=Comp, G=grab): Water	Matrix (Water, Seawater, Groundwater, Rain): Water
MW-16-03_20220406 (240-164756-3)	Sample Date: 4/6/22	Sample Time: 15:00 Eastern	Sample Type (C=Comp, G=grab): Water	Matrix (Water, Seawater, Groundwater, Rain): Water
MW-16-04_20220406 (240-164756-4)	Sample Date: 4/6/22	Sample Time: 16:43 Eastern	Sample Type (C=Comp, G=grab): Water	Matrix (Water, Seawater, Groundwater, Rain): Water
MW-16-05_20220406 (240-164756-5)	Sample Date: 4/6/22	Sample Time: 14:15 Eastern	Sample Type (C=Comp, G=grab): Water	Matrix (Water, Seawater, Groundwater, Rain): Water
MW-16-06_20220406 (240-164756-6)	Sample Date: 4/6/22	Sample Time: 13:05 Eastern	Sample Type (C=Comp, G=grab): Water	Matrix (Water, Seawater, Groundwater, Rain): Water
MW-16-07_20220406 (240-164756-7)	Sample Date: 4/6/22	Sample Time: 16:25 Eastern	Sample Type (C=Comp, G=grab): Water	Matrix (Water, Seawater, Groundwater, Rain): Water
DUP-01_20220406 (240-164756-8)	Sample Date: 4/6/22	Sample Time: Eastern	Sample Type (C=Comp, G=grab): Water	Matrix (Water, Seawater, Groundwater, Rain): Water
MP-001F_20220406 (240-164756-9)	Sample Date: 4/6/22	Sample Time: 11:30 Eastern	Sample Type (C=Comp, G=grab): Water	Matrix (Water, Seawater, Groundwater, Rain): Water
		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/3005A_TOT Metals Bo Dis
		6020B/3005A_TOT (MOD) Metals Ca, Fe	Total Number of Containers	
		Analysis Requested		
		Due Date Requested: 4/21/2022		
		TAT Requested (days):		
		PO #:		
		WO #:		
		Project #:		
		SSOW#:		
		Special Instructions/Note:		
		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months		
		Special Instructions/QC Requirements:		
		Method of Shipment		
		Received by: Company		
		Date/Time: 4-8-22 1433		
		Received by: Company		
		Date/Time: 4-9-22 1000		
		Received by: Company		
		Date/Time: 4-9-22 1000		
		Received by: Company		
		Cooler Temperature(s) °C and Other Remarks:		
		Custody Seal No. Δ Yes Δ No		



## Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 240-164756-1

**Login Number: 164756**

**List Number: 2**

**Creator: Homolar, Dana J**

**List Source: Eurofins Cedar Falls**

**List Creation: 04/11/22 07:46 AM**

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

## ANALYTICAL REPORT

Eurofins Canton  
180 S. Van Buren Avenue  
Barberton, OH 44203  
Tel: (330)497-9396

Laboratory Job ID: 240-174712-1

Client Project/Site: CCR DTE Monroe Power Plant FAB/VEL

For:

TRC Environmental Corporation.  
1540 Eisenhower Place  
Ann Arbor, Michigan 48108-7080

Attn: Mr. Vincent Buening



Authorized for release by:  
11/3/2022 7:22:44 PM

Kris Brooks, Project Manager II  
(330)966-9790  
[Kris.Brooks@et.eurofinsus.com](mailto:Kris.Brooks@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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# Definitions/Glossary

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

Job ID: 240-174712-1

## 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.
U	Indicates the analyte was analyzed for but not detected.

### General Chemistry

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

# Case Narrative

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

Job ID: 240-174712-1

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## Job ID: 240-174712-1

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### Laboratory: Eurofins Canton

#### Narrative

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#### Job Narrative 240-174712-1

#### Receipt

The samples were received on 10/14/2022 10:00 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 0.9°C

#### Metals

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

#### General Chemistry

Method 2540C\_Calcd: LCS failed high for the batch. Samples will be reported for in hold results. Samples will be re-analyzed out of hold with passing QCMW-16-01\_20221012 (240-174712-1), MW-16-07\_20221012 (240-174712-7), DUP-01\_20220012 (240-174712-8).

Method 2540C\_Calcd: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-16-07\_20221012 (240-174712-7)

Method 2540C\_Calcd: Reanalysis of the following sample(s) was performed outside of the analytical holding time to confirm initial analysis: MW-16-01\_20221012 (240-174712-1), DUP-01\_20220012 (240-174712-8).

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.  
Project/Site: CCR DTE Monroe Power Plant FAB/VEL

Job ID: 240-174712-1

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

#### 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 CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396





# Sample Summary

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

Job ID: 240-174712-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-174712-1	MW-16-01_20221012	Water	10/12/22 14:57	10/14/22 10:00
240-174712-2	MW-16-02_20221012	Water	10/12/22 14:08	10/14/22 10:00
240-174712-3	MW-16-03_20221012	Water	10/12/22 11:48	10/14/22 10:00
240-174712-4	MW-16-04_20221012	Water	10/12/22 10:10	10/14/22 10:00
240-174712-5	MW-16-05_20221012	Water	10/12/22 10:41	10/14/22 10:00
240-174712-6	MW-16-06_20221012	Water	10/12/22 13:00	10/14/22 10:00
240-174712-7	MW-16-07_20221012	Water	10/12/22 15:43	10/14/22 10:00
240-174712-8	DUP-01_20220012	Water	10/12/22 00:00	10/14/22 10:00

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# Detection Summary

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

Job ID: 240-174712-1

## Client Sample ID: MW-16-01\_20221012

## Lab Sample ID: 240-174712-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	250		100	100	ug/L	1		6010B	Total Recoverable
Calcium	380000		1000	1000	ug/L	1		6020	Total Recoverable
Iron	120		100	100	ug/L	1		6020	Total Recoverable
Chloride	10		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.6		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1400		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2000	*+	20	20	mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids - RA	2000	H	20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-02\_20221012

## Lab Sample ID: 240-174712-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	360		100	100	ug/L	1		6010B	Total Recoverable
Calcium	350000		1000	1000	ug/L	1		6020	Total Recoverable
Iron	280		100	100	ug/L	1		6020	Total Recoverable
Chloride	13		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.5		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1500		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2100		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-03\_20221012

## Lab Sample ID: 240-174712-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	420		100	100	ug/L	1		6010B	Total Recoverable
Calcium	380000		1000	1000	ug/L	1		6020	Total Recoverable
Iron	920		100	100	ug/L	1		6020	Total Recoverable
Chloride	18		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.5		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1500		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2100		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-04\_20221012

## Lab Sample ID: 240-174712-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	160		100	100	ug/L	1		6010B	Total Recoverable
Calcium	510000		1000	1000	ug/L	1		6020	Total Recoverable
Chloride	34		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	0.95		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1400		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2100		20	20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

# Detection Summary

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

Job ID: 240-174712-1

## Client Sample ID: MW-16-05\_20221012

## Lab Sample ID: 240-174712-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	220		100	100	ug/L	1		6010B	Total Recoverable
Calcium	390000		1000	1000	ug/L	1		6020	Total Recoverable
Iron	940		100	100	ug/L	1		6020	Total Recoverable
Chloride	11		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.5		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1400		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2000		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-06\_20221012

## Lab Sample ID: 240-174712-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	320		100	100	ug/L	1		6010B	Total Recoverable
Calcium	380000		1000	1000	ug/L	1		6020	Total Recoverable
Iron	1500		100	100	ug/L	1		6020	Total Recoverable
Chloride	11		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.5		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1400		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2100		20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: MW-16-07\_20221012

## Lab Sample ID: 240-174712-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	190		100	100	ug/L	1		6010B	Total Recoverable
Calcium	390000		1000	1000	ug/L	1		6020	Total Recoverable
Iron	660		100	100	ug/L	1		6020	Total Recoverable
Chloride	7.6		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1400		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2000	*+	20	20	mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids - RA	2200	H	20	20	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: DUP-01\_20220012

## Lab Sample ID: 240-174712-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	220		100	100	ug/L	1		6010B	Total Recoverable
Calcium	380000		1000	1000	ug/L	1		6020	Total Recoverable
Iron	910		100	100	ug/L	1		6020	Total Recoverable
Chloride	11		1.0	1.0	mg/L	1		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	1400		10	10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	2000	*+	20	20	mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids - RA	2000	H	20	20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 240-174712-1

**Client Sample ID: MW-16-01\_20221012**

**Lab Sample ID: 240-174712-1**

Date Collected: 10/12/22 14:57

Matrix: Water

Date Received: 10/14/22 10:00

**Method: SW846 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	250		100	100	ug/L		10/17/22 12:00	10/19/22 04:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380000		1000	1000	ug/L		10/17/22 12:00	10/18/22 19:41	1
Iron	120		100	100	ug/L		10/17/22 12:00	10/18/22 19:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	10		1.0	1.0	mg/L			10/27/22 14:16	1
Fluoride (SW846 9056A)	1.6		0.050	0.050	mg/L			10/27/22 14:16	1
Sulfate (SW846 9056A)	1400		10	10	mg/L			10/27/22 14:36	10
Total Dissolved Solids (SM 2540C)	2000	*+	20	20	mg/L			10/19/22 10:11	1

**General Chemistry - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2000	H	20	20	mg/L			11/01/22 11:02	1

# Client Sample Results

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

Job ID: 240-174712-1

**Client Sample ID: MW-16-02\_20221012**

**Lab Sample ID: 240-174712-2**

Date Collected: 10/12/22 14:08

Matrix: Water

Date Received: 10/14/22 10:00

**Method: SW846 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	360		100	100	ug/L		10/17/22 12:00	10/19/22 05:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350000		1000	1000	ug/L		10/17/22 12:00	10/18/22 19:53	1
Iron	280		100	100	ug/L		10/17/22 12:00	10/18/22 19:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	13		1.0	1.0	mg/L			10/27/22 19:18	1
Fluoride (SW846 9056A)	1.5		0.050	0.050	mg/L			10/27/22 19:18	1
Sulfate (SW846 9056A)	1500		10	10	mg/L			10/29/22 16:46	10
Total Dissolved Solids (SM 2540C)	2100		20	20	mg/L			10/17/22 10:08	1

# Client Sample Results

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

Job ID: 240-174712-1

**Client Sample ID: MW-16-03\_20221012**

**Lab Sample ID: 240-174712-3**

Date Collected: 10/12/22 11:48

Matrix: Water

Date Received: 10/14/22 10:00

**Method: SW846 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	420		100	100	ug/L		10/17/22 12:00	10/19/22 05:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380000		1000	1000	ug/L		10/17/22 12:00	10/18/22 19:55	1
Iron	920		100	100	ug/L		10/17/22 12:00	10/18/22 19:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	18		1.0	1.0	mg/L			10/27/22 19:58	1
Fluoride (SW846 9056A)	1.5		0.050	0.050	mg/L			10/27/22 19:58	1
Sulfate (SW846 9056A)	1500		10	10	mg/L			10/29/22 17:26	10
Total Dissolved Solids (SM 2540C)	2100		20	20	mg/L			10/17/22 10:08	1

# Client Sample Results

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

Job ID: 240-174712-1

**Client Sample ID: MW-16-04\_20221012**

**Lab Sample ID: 240-174712-4**

Date Collected: 10/12/22 10:10

Matrix: Water

Date Received: 10/14/22 10:00

**Method: SW846 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	160		100	100	ug/L		10/17/22 12:00	10/19/22 05:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	510000		1000	1000	ug/L		10/17/22 12:00	10/18/22 19:58	1
Iron	100	U	100	100	ug/L		10/17/22 12:00	10/18/22 19:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	34		1.0	1.0	mg/L			10/27/22 20:38	1
Fluoride (SW846 9056A)	0.95		0.050	0.050	mg/L			10/27/22 20:38	1
Sulfate (SW846 9056A)	1400		10	10	mg/L			10/29/22 18:06	10
Total Dissolved Solids (SM 2540C)	2100		20	20	mg/L			10/17/22 10:08	1

# Client Sample Results

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

Job ID: 240-174712-1

**Client Sample ID: MW-16-05\_20221012**

**Lab Sample ID: 240-174712-5**

Date Collected: 10/12/22 10:41

Matrix: Water

Date Received: 10/14/22 10:00

**Method: SW846 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	220		100	100	ug/L		10/17/22 12:00	10/19/22 05:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390000		1000	1000	ug/L		10/17/22 12:00	10/18/22 20:00	1
Iron	940		100	100	ug/L		10/17/22 12:00	10/18/22 20:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	11		1.0	1.0	mg/L			10/27/22 21:19	1
Fluoride (SW846 9056A)	1.5		0.050	0.050	mg/L			10/27/22 21:19	1
Sulfate (SW846 9056A)	1400		10	10	mg/L			10/29/22 18:46	10
Total Dissolved Solids (SM 2540C)	2000		20	20	mg/L			10/17/22 10:05	1



# Client Sample Results

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

Job ID: 240-174712-1

**Client Sample ID: MW-16-06\_20221012**

**Lab Sample ID: 240-174712-6**

Date Collected: 10/12/22 13:00

Matrix: Water

Date Received: 10/14/22 10:00

**Method: SW846 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	320		100	100	ug/L		10/17/22 12:00	10/19/22 05:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380000		1000	1000	ug/L		10/17/22 12:00	10/18/22 20:03	1
Iron	1500		100	100	ug/L		10/17/22 12:00	10/18/22 20:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	11		1.0	1.0	mg/L			10/27/22 21:59	1
Fluoride (SW846 9056A)	1.5		0.050	0.050	mg/L			10/27/22 21:59	1
Sulfate (SW846 9056A)	1400		10	10	mg/L			10/29/22 20:07	10
Total Dissolved Solids (SM 2540C)	2100		20	20	mg/L			10/17/22 10:05	1

# Client Sample Results

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

Job ID: 240-174712-1

**Client Sample ID: MW-16-07\_20221012**

**Lab Sample ID: 240-174712-7**

Date Collected: 10/12/22 15:43

Matrix: Water

Date Received: 10/14/22 10:00

**Method: SW846 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	190		100	100	ug/L		10/17/22 12:00	10/19/22 05:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390000		1000	1000	ug/L		10/17/22 12:00	10/18/22 20:10	1
Iron	660		100	100	ug/L		10/17/22 12:00	10/18/22 20:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	7.6		1.0	1.0	mg/L			10/27/22 23:19	1
Fluoride (SW846 9056A)	1.4		0.050	0.050	mg/L			10/27/22 23:19	1
Sulfate (SW846 9056A)	1400		10	10	mg/L			10/29/22 20:47	10
Total Dissolved Solids (SM 2540C)	2000	*+	20	20	mg/L			10/19/22 10:11	1

**General Chemistry - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2200	H	20	20	mg/L			10/28/22 19:21	1

# Client Sample Results

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

Job ID: 240-174712-1

**Client Sample ID: DUP-01\_20220012**

**Lab Sample ID: 240-174712-8**

Date Collected: 10/12/22 00:00

Matrix: Water

Date Received: 10/14/22 10:00

**Method: SW846 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	220		100	100	ug/L		10/17/22 12:00	10/19/22 05:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380000		1000	1000	ug/L		10/17/22 12:00	10/18/22 20:13	1
Iron	910		100	100	ug/L		10/17/22 12:00	10/18/22 20:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	11		1.0	1.0	mg/L			10/28/22 00:00	1
Fluoride (SW846 9056A)	1.4		0.050	0.050	mg/L			10/28/22 00:00	1
Sulfate (SW846 9056A)	1400		10	10	mg/L			10/29/22 21:27	10
Total Dissolved Solids (SM 2540C)	2000	*+	20	20	mg/L			10/19/22 10:11	1

**General Chemistry - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2000	H	20	20	mg/L			11/01/22 11:02	1

# QC Sample Results

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

Job ID: 240-174712-1

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 240-547391/1-A**  
**Matrix: Water**  
**Analysis Batch: 547695**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 547391**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	100	ug/L		10/17/22 12:00	10/19/22 04:51	1

**Lab Sample ID: LCS 240-547391/2-A**  
**Matrix: Water**  
**Analysis Batch: 547695**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 547391**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	955		ug/L		95	80 - 120

**Lab Sample ID: 240-174712-1 MS**  
**Matrix: Water**  
**Analysis Batch: 547695**

**Client Sample ID: MW-16-01\_20221012**  
**Prep Type: Total Recoverable**  
**Prep Batch: 547391**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	250		1000	1290		ug/L		104	75 - 125

**Lab Sample ID: 240-174712-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 547695**

**Client Sample ID: MW-16-01\_20221012**  
**Prep Type: Total Recoverable**  
**Prep Batch: 547391**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Boron	250		1000	1150		ug/L		90	75 - 125	12	20

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 240-547391/1-A**  
**Matrix: Water**  
**Analysis Batch: 547691**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 547391**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	1000	ug/L		10/17/22 12:00	10/18/22 19:31	1
Iron	100	U	100	100	ug/L		10/17/22 12:00	10/18/22 19:31	1

**Lab Sample ID: LCS 240-547391/3-A**  
**Matrix: Water**  
**Analysis Batch: 547691**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 547391**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25000	23900		ug/L		96	80 - 120
Iron	5000	4860		ug/L		97	80 - 120

**Lab Sample ID: 240-174712-1 MS**  
**Matrix: Water**  
**Analysis Batch: 547691**

**Client Sample ID: MW-16-01\_20221012**  
**Prep Type: Total Recoverable**  
**Prep Batch: 547391**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	380000		25000	402000	4	ug/L		91	75 - 125
Iron	120		5000	5280		ug/L		103	75 - 125

# QC Sample Results

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

Job ID: 240-174712-1

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

**Lab Sample ID: 240-174712-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 547691**

**Client Sample ID: MW-16-01\_20221012**  
**Prep Type: Total Recoverable**  
**Prep Batch: 547391**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Calcium	380000		25000	369000	4	ug/L		-42	75 - 125	9	20
Iron	120		5000	4730		ug/L		92	75 - 125	11	20

## Method: 9056A - Anions, Ion Chromatography

**Lab Sample ID: MB 240-548708/22**  
**Matrix: Water**  
**Analysis Batch: 548708**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	%Rec	Analyzed	Dil Fac
	Result	Qualifier						Limits		
Chloride	1.0	U	1.0	1.0	mg/L			10/27/22 17:57	1	
Fluoride	0.050	U	0.050	0.050	mg/L			10/27/22 17:57	1	

**Lab Sample ID: MB 240-548708/3**  
**Matrix: Water**  
**Analysis Batch: 548708**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	%Rec	Analyzed	Dil Fac
	Result	Qualifier						Limits		
Chloride	1.0	U	1.0	1.0	mg/L			10/27/22 11:35	1	
Fluoride	0.050	U	0.050	0.050	mg/L			10/27/22 11:35	1	
Sulfate	1.0	U	1.0	1.0	mg/L			10/27/22 11:35	1	

**Lab Sample ID: LCS 240-548708/23**  
**Matrix: Water**  
**Analysis Batch: 548708**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Chloride	50.0	51.2		mg/L		102	90 - 110
Fluoride	2.50	2.65		mg/L		106	90 - 110

**Lab Sample ID: LCS 240-548708/4**  
**Matrix: Water**  
**Analysis Batch: 548708**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Chloride	50.0	49.8		mg/L		100	90 - 110
Fluoride	2.50	2.57		mg/L		103	90 - 110
Sulfate	50.0	52.0		mg/L		104	90 - 110

**Lab Sample ID: MB 240-549313/3**  
**Matrix: Water**  
**Analysis Batch: 549313**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	%Rec	Analyzed	Dil Fac
	Result	Qualifier						Limits		
Chloride	1.0	U	1.0	1.0	mg/L			10/29/22 15:45	1	
Fluoride	0.050	U	0.050	0.050	mg/L			10/29/22 15:45	1	
Sulfate	1.0	U	1.0	1.0	mg/L			10/29/22 15:45	1	

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# QC Sample Results

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

Job ID: 240-174712-1

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

Lab Sample ID: LCS 240-549313/4  
 Matrix: Water  
 Analysis Batch: 549313

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.5		mg/L		99	90 - 110
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	51.0		mg/L		102	90 - 110

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

Lab Sample ID: MB 240-547339/1  
 Matrix: Water  
 Analysis Batch: 547339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	10	mg/L			10/17/22 10:05	1

Lab Sample ID: LCS 240-547339/2  
 Matrix: Water  
 Analysis Batch: 547339

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	493	485		mg/L		98	80 - 120

Lab Sample ID: MB 240-547340/1  
 Matrix: Water  
 Analysis Batch: 547340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1.0	U	1.0	1.0	mg/L			10/17/22 10:08	1

Lab Sample ID: LCS 240-547340/2  
 Matrix: Water  
 Analysis Batch: 547340

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	493	431		mg/L		87	80 - 120

Lab Sample ID: MB 240-547745/1  
 Matrix: Water  
 Analysis Batch: 547745

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	10	mg/L			10/19/22 10:11	1

Lab Sample ID: LCS 240-547745/2  
 Matrix: Water  
 Analysis Batch: 547745

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	500	796	*+	mg/L		159	80 - 120

# QC Sample Results

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

Job ID: 240-174712-1

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

**Lab Sample ID: MB 240-549374/1**  
**Matrix: Water**  
**Analysis Batch: 549374**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	10	mg/L			10/28/22 19:21	1

**Lab Sample ID: LCS 240-549374/2**  
**Matrix: Water**  
**Analysis Batch: 549374**

**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	388	377		mg/L		97	80 - 120

**Lab Sample ID: MB 240-549787/1**  
**Matrix: Water**  
**Analysis Batch: 549787**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	10	mg/L			11/01/22 11:02	1

**Lab Sample ID: LCS 240-549787/2**  
**Matrix: Water**  
**Analysis Batch: 549787**

**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	388	340		mg/L		88	80 - 120

# QC Association Summary

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

Job ID: 240-174712-1

## Metals

### Prep Batch: 547391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-1	MW-16-01_20221012	Total Recoverable	Water	3005A	
240-174712-2	MW-16-02_20221012	Total Recoverable	Water	3005A	
240-174712-3	MW-16-03_20221012	Total Recoverable	Water	3005A	
240-174712-4	MW-16-04_20221012	Total Recoverable	Water	3005A	
240-174712-5	MW-16-05_20221012	Total Recoverable	Water	3005A	
240-174712-6	MW-16-06_20221012	Total Recoverable	Water	3005A	
240-174712-7	MW-16-07_20221012	Total Recoverable	Water	3005A	
240-174712-8	DUP-01_20220012	Total Recoverable	Water	3005A	
MB 240-547391/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-547391/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-547391/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-174712-1 MS	MW-16-01_20221012	Total Recoverable	Water	3005A	
240-174712-1 MS	MW-16-01_20221012	Total Recoverable	Water	3005A	
240-174712-1 MSD	MW-16-01_20221012	Total Recoverable	Water	3005A	
240-174712-1 MSD	MW-16-01_20221012	Total Recoverable	Water	3005A	

### Analysis Batch: 547691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-1	MW-16-01_20221012	Total Recoverable	Water	6020	547391
240-174712-2	MW-16-02_20221012	Total Recoverable	Water	6020	547391
240-174712-3	MW-16-03_20221012	Total Recoverable	Water	6020	547391
240-174712-4	MW-16-04_20221012	Total Recoverable	Water	6020	547391
240-174712-5	MW-16-05_20221012	Total Recoverable	Water	6020	547391
240-174712-6	MW-16-06_20221012	Total Recoverable	Water	6020	547391
240-174712-7	MW-16-07_20221012	Total Recoverable	Water	6020	547391
240-174712-8	DUP-01_20220012	Total Recoverable	Water	6020	547391
MB 240-547391/1-A	Method Blank	Total Recoverable	Water	6020	547391
LCS 240-547391/3-A	Lab Control Sample	Total Recoverable	Water	6020	547391
240-174712-1 MS	MW-16-01_20221012	Total Recoverable	Water	6020	547391
240-174712-1 MSD	MW-16-01_20221012	Total Recoverable	Water	6020	547391

### Analysis Batch: 547695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-1	MW-16-01_20221012	Total Recoverable	Water	6010B	547391
240-174712-2	MW-16-02_20221012	Total Recoverable	Water	6010B	547391
240-174712-3	MW-16-03_20221012	Total Recoverable	Water	6010B	547391
240-174712-4	MW-16-04_20221012	Total Recoverable	Water	6010B	547391
240-174712-5	MW-16-05_20221012	Total Recoverable	Water	6010B	547391
240-174712-6	MW-16-06_20221012	Total Recoverable	Water	6010B	547391
240-174712-7	MW-16-07_20221012	Total Recoverable	Water	6010B	547391
240-174712-8	DUP-01_20220012	Total Recoverable	Water	6010B	547391
MB 240-547391/1-A	Method Blank	Total Recoverable	Water	6010B	547391
LCS 240-547391/2-A	Lab Control Sample	Total Recoverable	Water	6010B	547391
240-174712-1 MS	MW-16-01_20221012	Total Recoverable	Water	6010B	547391
240-174712-1 MSD	MW-16-01_20221012	Total Recoverable	Water	6010B	547391

## General Chemistry

### Analysis Batch: 547339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-5	MW-16-05_20221012	Total/NA	Water	SM 2540C	

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# QC Association Summary

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

Job ID: 240-174712-1

## General Chemistry (Continued)

### Analysis Batch: 547339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-6	MW-16-06_20221012	Total/NA	Water	SM 2540C	
MB 240-547339/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-547339/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 547340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-2	MW-16-02_20221012	Total/NA	Water	SM 2540C	
240-174712-3	MW-16-03_20221012	Total/NA	Water	SM 2540C	
240-174712-4	MW-16-04_20221012	Total/NA	Water	SM 2540C	
MB 240-547340/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-547340/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 547745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-1	MW-16-01_20221012	Total/NA	Water	SM 2540C	
240-174712-7	MW-16-07_20221012	Total/NA	Water	SM 2540C	
240-174712-8	DUP-01_20220012	Total/NA	Water	SM 2540C	
MB 240-547745/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-547745/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 548708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-1	MW-16-01_20221012	Total/NA	Water	9056A	
240-174712-1	MW-16-01_20221012	Total/NA	Water	9056A	
240-174712-2	MW-16-02_20221012	Total/NA	Water	9056A	
240-174712-3	MW-16-03_20221012	Total/NA	Water	9056A	
240-174712-4	MW-16-04_20221012	Total/NA	Water	9056A	
240-174712-5	MW-16-05_20221012	Total/NA	Water	9056A	
240-174712-6	MW-16-06_20221012	Total/NA	Water	9056A	
240-174712-7	MW-16-07_20221012	Total/NA	Water	9056A	
240-174712-8	DUP-01_20220012	Total/NA	Water	9056A	
MB 240-548708/22	Method Blank	Total/NA	Water	9056A	
MB 240-548708/3	Method Blank	Total/NA	Water	9056A	
LCS 240-548708/23	Lab Control Sample	Total/NA	Water	9056A	
LCS 240-548708/4	Lab Control Sample	Total/NA	Water	9056A	

### Analysis Batch: 549313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-2	MW-16-02_20221012	Total/NA	Water	9056A	
240-174712-3	MW-16-03_20221012	Total/NA	Water	9056A	
240-174712-4	MW-16-04_20221012	Total/NA	Water	9056A	
240-174712-5	MW-16-05_20221012	Total/NA	Water	9056A	
240-174712-6	MW-16-06_20221012	Total/NA	Water	9056A	
240-174712-7	MW-16-07_20221012	Total/NA	Water	9056A	
240-174712-8	DUP-01_20220012	Total/NA	Water	9056A	
MB 240-549313/3	Method Blank	Total/NA	Water	9056A	
LCS 240-549313/4	Lab Control Sample	Total/NA	Water	9056A	

### Analysis Batch: 549374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-7 - RA	MW-16-07_20221012	Total/NA	Water	SM 2540C	

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# QC Association Summary

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

Job ID: 240-174712-1

## General Chemistry (Continued)

### Analysis Batch: 549374 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-549374/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-549374/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 549787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174712-1 - RA	MW-16-01_20221012	Total/NA	Water	SM 2540C	
240-174712-8 - RA	DUP-01_20220012	Total/NA	Water	SM 2540C	
MB 240-549787/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-549787/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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

# Lab Chronicle

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

Job ID: 240-174712-1

**Client Sample ID: MW-16-01\_20221012**

**Lab Sample ID: 240-174712-1**

**Date Collected: 10/12/22 14:57**

**Matrix: Water**

**Date Received: 10/14/22 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547695	RKT	EET CAN	10/19/22 04:59
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 19:41
Total/NA	Analysis	9056A		1	548708	JMB	EET CAN	10/27/22 14:16
Total/NA	Analysis	9056A		10	548708	JMB	EET CAN	10/27/22 14:36
Total/NA	Analysis	SM 2540C		1	547745	MS	EET CAN	10/19/22 10:11
Total/NA	Analysis	SM 2540C	RA	1	549787	MS	EET CAN	11/01/22 11:02

**Client Sample ID: MW-16-02\_20221012**

**Lab Sample ID: 240-174712-2**

**Date Collected: 10/12/22 14:08**

**Matrix: Water**

**Date Received: 10/14/22 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547695	RKT	EET CAN	10/19/22 05:28
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 19:53
Total/NA	Analysis	9056A		1	548708	JMB	EET CAN	10/27/22 19:18
Total/NA	Analysis	9056A		10	549313	JWW	EET CAN	10/29/22 16:46
Total/NA	Analysis	SM 2540C		1	547340	MS	EET CAN	10/17/22 10:08

**Client Sample ID: MW-16-03\_20221012**

**Lab Sample ID: 240-174712-3**

**Date Collected: 10/12/22 11:48**

**Matrix: Water**

**Date Received: 10/14/22 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547695	RKT	EET CAN	10/19/22 05:33
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 19:55
Total/NA	Analysis	9056A		1	548708	JMB	EET CAN	10/27/22 19:58
Total/NA	Analysis	9056A		10	549313	JWW	EET CAN	10/29/22 17:26
Total/NA	Analysis	SM 2540C		1	547340	MS	EET CAN	10/17/22 10:08

**Client Sample ID: MW-16-04\_20221012**

**Lab Sample ID: 240-174712-4**

**Date Collected: 10/12/22 10:10**

**Matrix: Water**

**Date Received: 10/14/22 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547695	RKT	EET CAN	10/19/22 05:37
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 19:58

# Lab Chronicle

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

Job ID: 240-174712-1

**Client Sample ID: MW-16-04\_20221012**

**Lab Sample ID: 240-174712-4**

**Date Collected: 10/12/22 10:10**

**Matrix: Water**

**Date Received: 10/14/22 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	548708	JMB	EET CAN	10/27/22 20:38
Total/NA	Analysis	9056A		10	549313	JWW	EET CAN	10/29/22 18:06
Total/NA	Analysis	SM 2540C		1	547340	MS	EET CAN	10/17/22 10:08

**Client Sample ID: MW-16-05\_20221012**

**Lab Sample ID: 240-174712-5**

**Date Collected: 10/12/22 10:41**

**Matrix: Water**

**Date Received: 10/14/22 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547695	RKT	EET CAN	10/19/22 05:41
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 20:00
Total/NA	Analysis	9056A		1	548708	JMB	EET CAN	10/27/22 21:19
Total/NA	Analysis	9056A		10	549313	JWW	EET CAN	10/29/22 18:46
Total/NA	Analysis	SM 2540C		1	547339	MS	EET CAN	10/17/22 10:05

**Client Sample ID: MW-16-06\_20221012**

**Lab Sample ID: 240-174712-6**

**Date Collected: 10/12/22 13:00**

**Matrix: Water**

**Date Received: 10/14/22 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547695	RKT	EET CAN	10/19/22 05:46
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 20:03
Total/NA	Analysis	9056A		1	548708	JMB	EET CAN	10/27/22 21:59
Total/NA	Analysis	9056A		10	549313	JWW	EET CAN	10/29/22 20:07
Total/NA	Analysis	SM 2540C		1	547339	MS	EET CAN	10/17/22 10:05

**Client Sample ID: MW-16-07\_20221012**

**Lab Sample ID: 240-174712-7**

**Date Collected: 10/12/22 15:43**

**Matrix: Water**

**Date Received: 10/14/22 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547695	RKT	EET CAN	10/19/22 05:50
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 20:10
Total/NA	Analysis	9056A		1	548708	JMB	EET CAN	10/27/22 23:19
Total/NA	Analysis	9056A		10	549313	JWW	EET CAN	10/29/22 20:47
Total/NA	Analysis	SM 2540C		1	547745	MS	EET CAN	10/19/22 10:11
Total/NA	Analysis	SM 2540C	RA	1	549374	JWW	EET CAN	10/28/22 19:21

# Lab Chronicle

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

Job ID: 240-174712-1

**Client Sample ID: DUP-01\_20220012**

**Lab Sample ID: 240-174712-8**

**Date Collected: 10/12/22 00:00**

**Matrix: Water**

**Date Received: 10/14/22 10:00**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547695	RKT	EET CAN	10/19/22 05:54
Total Recoverable	Prep	3005A			547391	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 20:13
Total/NA	Analysis	9056A		1	548708	JMB	EET CAN	10/28/22 00:00
Total/NA	Analysis	9056A		10	549313	JWW	EET CAN	10/29/22 21:27
Total/NA	Analysis	SM 2540C		1	547745	MS	EET CAN	10/19/22 10:11
Total/NA	Analysis	SM 2540C	RA	1	549787	MS	EET CAN	11/01/22 11:02

**Laboratory References:**

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



# Accreditation/Certification Summary

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

Job ID: 240-174712-1

## Laboratory: Eurofins Canton

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

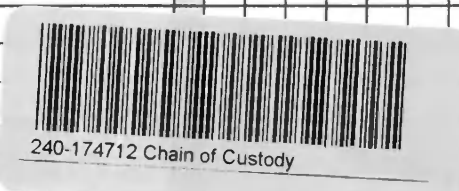


Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

0.2/0.9

# MICHIGAN Chain of Custody Record 190

**Eurofins Canton**  
180 S. Van Buren Avenue  
Barberton, OH 44203  
Phone: 330-497-9396 Fax: 330-497-0772

**eurofins** Environment Testing America

<b>Client Information</b>		Lab PM: Brooks, Kris M		Camer Tracking No(s): 240-99748-31715.1	
Client Contact: Chris Scieszka		E-Mail: Kris.Brooks@et.eurofins.com		Page: Page 1 of 1	
Company: Vince Burniny		PWSID		Job #:	
Address: 1540 Eisenhower Place		Due Date Requested:		Preservation Codes:	
City: Ann Arbor		TAT Requested (days): 16-6000		A - HCL	
State, Zip: MI, 48108-7080		Compliance Project: Standard		M - Hexane	
Phone: 313-971-7080 (Tel) 313-971-8022 (Fax)		PO #: 16-6000-179969		N - None	
Email: CSieszka@trocompanies.com		WO #: 254222.0001		O - As/NiO2	
Project Name: CCR DTE Monroe Plant FABVEL		Project #: 24016830		P - Na2O4S	
Site: Monroe FABVEL		SSOWN:		Q - Na2SO3	
				R - Na2S2O3	
				S - H2SO4	
				T - TSP Dodecahydrate	
				U - Acetone	
				V - MCAA	
				W - pH 4-5	
				Y - Trizma	
				Z - other (specify)	
				Other:	
				Total Number of Containers	
				Special Instructions/Note:	
				 <p>240-174712 Chain of Custody</p>	
				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
				Return To Client <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
				Special Instructions/QC Requirements:	
				Method of Shipment:	
				Time:	
				Received by: 	
				Date/Time: 10/13/22 10:00	
				Company: EFA	
				Received by: 	
				Date/Time: 10-14-22 10:00	
				Company: EFA	
				Received by:	
				Cooler Temperature(s) °C and Other Remarks	
				Custody Seal No.:	
				Δ Yes Δ No	



**Eurofins - Canton Sample Receipt Form/Narrative** Login # : \_\_\_\_\_  
**Barberton Facility**

Client ABC Site Name \_\_\_\_\_ Cooler unpacked by: Chadwick  
Cooler Received on 10-14-22 Opened on 10-14-22  
FedEx: 1<sup>st</sup> Grd  Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other \_\_\_\_\_  
**Receipt After-hours: Drop-off Date/Time** \_\_\_\_\_ **Storage Location** \_\_\_\_\_


Eurofins Cooler # 18 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# IR-13 (CF +0.7°C) Observed Cooler Temp. 0.2 °C Corrected Cooler Temp. 0.9 °C  
IR GUN #IR-15 (CF 0.0°C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_ 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 NA  
-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)?  Yes No  
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# HC286797  
14. Were VOAs on the COC?  Yes No  
15. Were air bubbles >6 mm in any VOA vials?  Yes No NA  ← Larger than this.  
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 \_\_\_\_\_

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

**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: \_\_\_\_\_



Temperature readings:

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
MW-16-01_20221012	240-174712-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-16-02_20221012	240-174712-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-16-03_20221012	240-174712-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-16-04_20221012	240-174712-C-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-16-05_20221012	240-174712-C-5	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-16-06_20221012	240-174712-C-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-16-07_20221012	240-174712-C-7	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
DUP-01_20220012	240-174712-C-8	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

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# Appendix B

## Data Quality Reviews

**Laboratory Data Quality Review  
Groundwater Monitoring Event April 2022  
DTE Electric Company Monroe Power Plant Fly Ash Basin and  
Vertical Extension Landfill (MONPP FAB & VEL)**

Groundwater samples were collected by TRC for the April 2022 sampling event. Samples were analyzed for anions and total dissolved solids by Eurofins Environment Testing America (Eurofins), located in Canton, Ohio and metals by Eurofins, located in Cedar Falls, Iowa. The laboratory analytical results are reported in laboratory report 240-164756-1.

During the April 2022 sampling event, a groundwater sample was collected from each of the following wells:

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

Each sample was analyzed for the following constituents:

Analyte Group	Method
Anions (Chloride, Fluoride, Sulfate)	SW846 9056A
Boron	SW846 3005A/6010D
Calcium	SW846 3005A/6020B
Total Dissolved Solids	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.

- 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.
- LCS recoveries for all target analytes were within laboratory control limits.
- MS/MSD analyses were performed on sample MW-16-01\_20220406 for calcium, chloride, and fluoride. The recoveries of calcium in the MS/MSD performed on sample MW-16-01\_20220406 were below the laboratory acceptance limits. However, data usability was not affected since the concentration of calcium in the parent sample was greater than four times the spike concentration.
- Laboratory duplicate analyses were performed on sample MW-16-04\_20220406 for boron; relative percent differences (RPDs) between parent and duplicate samples were within the QC limits.
- DUP-01\_20220406 corresponds with MW-16-03\_20220406 for anions, metals, and TDS; RPDs between the parent and duplicate samples were within the QC limits.
- Samples MW-16-04\_20220406 and MW-16-07\_20220406 reported boron at 140 ug/L and 180 ug/L, respectively, which are below the QAPP requested RL for boron of 200 ug/L.

# Laboratory Data Quality Review

## Groundwater Monitoring Event October 2022

### DTE Electric Company Monroe Power Plant Fly Ash Basin and Vertical extension Landfill (MONPP FAB & VEL)

Groundwater samples were collected by TRC for the October 2022 sampling event. Samples were analyzed for anions, total recoverable metals, and total dissolved solids by Eurofins Environment Testing America (Eurofins), located in Canton, Ohio. The laboratory analytical results are reported in laboratory reports 240-174595-1 and 240-174712-1.

During the October 2020 sampling event, a groundwater sample was collected from each of the following wells:

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

Each sample was analyzed for the following constituents:

Analyte Group	Method
Anions (Chloride, Fluoride, Sulfate)	SW846 9056A
Total Recoverable Boron	SW846 3005A/6010B
Total Recoverable Calcium	SW846 3005A/6020
Total Dissolved Solids	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 Methods 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, equipment blanks, and field blanks. Method blanks are used to assess potential contamination arising from laboratory sample preparation and/or analytical procedures. Field and 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;

- Percent recoveries for matrix spike (MS) and matrix spike duplicates (MSD), when performed on project samples. Percent recoveries are calculated for each analyte spiked and used to assess bias due to sample matrix effects;
- Data for laboratory duplicates, when performed on project samples. The laboratory duplicates are replicate analyses of one sample and are used to assess the precision of the analytical method;
- 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 an assessment monitoring program.
- Data are usable for the purposes of the assessment 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**

- An equipment blank was not collected with this data set.
- Target analytes were not detected in the method blanks.
- Samples MW-16-01, MW-16-07, and DUP-01 were re-analyzed between 9 and 13 days outside of the holding time for TDS due to issues with the LCS. The results of the original analyses were reported and should be used for project objectives; therefore, there was no adverse effect on the usability of the data due to the holding time exceedance.
- LCS recoveries for all target analytes were within laboratory control limits with the following exception. The recovery of TDS in LCS 240-547745/2 (159%) associated with the original TDS analyses of samples MW-16-01, MW-16-07, and DUP-01 exceeded QC limits (80-120%). The laboratory re-analyzed these samples outside of the holding time due to this issue; the LCS recovery associated with the reanalysis was within QC limits. The results of the original TDS analyses should be used for project objectives. Therefore, the positive results for TDS from the original analyses of samples MW-16-01, MW-16-07, and DUP-01 should be considered estimated with a potential high bias as summarized in the attached table, Attachment A.
- MS/MSD analyses were performed on sample MW-16-01 for calcium and boron. The recovery of calcium in the MSD performed on sample MW-16-01\_20221012 was below the laboratory acceptance limits. However, data usability was not affected since the

concentration of calcium in the parent sample was greater than four times the spike concentration.

- DUP-01 corresponds with MW-16-05; relative percent differences (RPDs) between the parent and duplicate sample were within the QC limits.

**Attachment A**

Summary of Data Non-Conformances for Groundwater Monitoring Event Analytical Data  
DTE Monroe Power Plant Fly Ash Basin and Vertical Extension Landfill (MONPP FAB & VEL)  
Ann Arbor, Michigan

<b>Samples</b>	<b>Collection Date</b>	<b>Analyte</b>	<b>Non-Conformance/Issue</b>
MW-16-01	10/12/2022	TDS	LCS recovery exceeded QC limits, positive result should be considered estimated with a potential high bias.
MW-16-07	10/12/2022		
DUP-01	10/12/2022		