

# **2024 Annual Groundwater Monitoring Report**

Sibley Quarry Coal Combustion Residual Landfill 801 Fort Street Trenton, Michigan

January 2025

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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, applies to the DTE Electric Company (DTE Electric) Sibley Quarry Landfill (SQLF) CCR unit. Pursuant to the CCR Rule, no later than January 31, 2018, and annually thereafter, the owner or operator of a CCR unit must prepare an annual groundwater monitoring and corrective action report for the CCR unit documenting the status of groundwater monitoring and corrective action for the preceding year in accordance with §257.90(e). On behalf of DTE Electric, TRC Engineers Michigan, Inc., the engineering entity of TRC, has prepared this Annual Groundwater Monitoring Report for calendar year 2024 activities at the SQLF CCR unit.

The SQLF was operating under the detection monitoring program at the start of the 2024 annual reporting period and remained in the detection monitoring program through the end of the 2024 annual reporting period. The semiannual detection monitoring events for 2024 were completed in April and October 2024 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. All the monitoring data that has been collected and evaluated under §257.90 through §257.98 in 2024 are presented in this report.

No initial SSIs over prediction limits were recorded for Appendix III constituents in the monitoring wells during the April and October 2024 monitoring events. A potential SSI for total dissolved solids (TDS) was detected at one monitoring well, MW-108A, during the October 2024 monitoring event. The potential SSI was not statistically significant (i.e. verification resampling did not confirm the exceedance). Therefore, detection monitoring will continue at the SQLF CCR unit in accordance with §257.94.

In response to the chloride and sulfate SSIs noted during the October 2023 monitoring event, DTE Electric has developed an Alternative Source Demonstration (ASD) dated February 29, 2024 that is included in this report as Appendix A.

Additionally, based on the hydrogeology at the site, the uppermost aquifer is in an area where pumping has been performed continuously since before CCR disposal began and will continue to be dewatered, by which a continuous inward hydraulic gradient is maintained. As a result, there is no reasonable probability for the uppermost aquifer perimeter monitoring wells to have been affected by the SQLF CCR unit operations to date, nor could they be in the future under current pumping conditions.



# 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, applies to the DTE Electric Company (DTE Electric) Sibley Quarry Landfill Coal Combustion Residual Landfill (SQLF) CCR unit. Pursuant to the CCR Rule, no later than January 31, 2018, and annually thereafter, the owner or operator of a CCR unit must prepare an annual groundwater monitoring and corrective action report for the CCR unit documenting the status of groundwater monitoring and corrective action for the preceding year in accordance with §257.90(e). On behalf of DTE Electric, TRC Engineers Michigan, Inc., the engineering entity of TRC, has prepared this Annual Groundwater Monitoring Report for calendar year 2024 activities at the SQLF CCR unit (2024 Annual Report).

As documented in the 2023 Annual Groundwater Monitoring Report for the Sibley Quarry Landfill (2023 Annual Report) (TRC, January 2024), potential statistically significant increases (SSIs) over prediction limits were noted for chloride and sulfate during the October 2023 semiannual detection monitoring event. These SSIs were evaluated and determined to be a result of natural variability in groundwater quality as documented in an alternate source demonstration (ASD) included in Appendix A, and not attributable to the SQLF CCR unit. As such, DTE Electric continued detection monitoring at the SQLF CCR Unit in 2024 pursuant to §257.94 of the CCR Rule.

This 2024 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 2024 semiannual groundwater monitoring events for the SQLF CCR unit. Detection monitoring for these events continued to be performed in accordance with the *CCR Groundwater Monitoring and Quality Assurance Project Plan – DTE Electric Company Sibley Quarry Coal Combustion Residual Landfill* (QAPP) (TRC, August 2016; revised March 2017) and statistically evaluated per the *Groundwater Statistical Evaluation Plan – DTE Electric Company Sibley Quarry Coal Combustion Residual Landfill* (Stats Plan) (TRC, October 2017). As part of the statistical evaluation, the data collected during detection monitoring events are evaluated to identify SSIs of detection monitoring parameters compared to background levels.

### 1.2 Site Overview

The SQLF is located in Section 7, Township 4 South, Range 11 East, at 801 Fort Street in Trenton, Wayne County, Michigan (Figure 1). The SQLF is located about two miles north of the DTE Electric Trenton Power Plant. The SQLF is bounded mostly by Fort Street to the west, Sibley Road to the north, the former Detroit and Toledo Shore Line Railroad and West Jefferson Avenue to the east, and the former Vulcan Mold & Iron Company (now owned by Danou Enterprises) and the DTE Electric Jefferson Substation to the south.

The SQLF is a licensed Coal Ash Landfill owned and operated by DTE Electric. In 2024, the disposal facility received the majority of CCR from the Monroe Power Plant, including CCR from the Monroe Power Plant Bottom Ash Impoundment closure through 2024. The SQLF is



operated under the current operating license number 9602 in accordance with Michigan Part 115 of the Natural Resources and Environmental Protection Act (NREPA), PA 451 of 1994, as amended.

# 1.3 Geology/Hydrogeology

The SQLF CCR unit is located approximately one-half mile west of the Detroit River. The Sibley quarry was originally developed to mine limestone beginning in the mid-1800s and was mined to over 300 feet below ground surface (ft bgs) in some areas before mining activities ceased. In 1951, Detroit Edison (now DTE Electric) acquired Sibley Quarry and began to manage CCR in the SQLF. As part of normal operations, the SQLF is continuously dewatered to approximately 300 ft bgs maintaining a water level in the bottom of the quarry by pumping an average of approximately 1.5 million gallons per day.

The SQLF resides in an area characterized by near surface deposits of glacio-lacustrine clay and silt units on top of thick strata of dolomite and limestone bedrock. The SQLF is located in an area where the Dundee Formation (mostly limestone) and the Detroit River Group (limestone, dolostone and some sandstone) underlie the unconsolidated glacial drift and are the uppermost aquifer. At SQLF, the Dundee Formation is overlain by anywhere from less than 15 feet to more than 70 feet of unconsolidated material, most of which is clay-rich soil with some fill. The top of the Dundee Formation limestone/dolostone bedrock was encountered at depths ranging from 16.5 to 74.5 ft bgs and including the underlying Detroit River Group limestone/dolostone/ sandstone, extends to depths ranging from 235 to over 310 ft bgs. The underlying Sylvania Sandstone was encountered at depths ranging from 235 to 300 ft bgs in some locations at the SQLF.

As expected, data show that groundwater levels are significantly lower within the bedrock in monitoring wells that are the closest to the quarry where significant pumping is occurring, with water levels ranging from 113 to more than 220 ft bgs. Groundwater flow is consistently inward toward the base of the quarry due to continuous pumping that hydraulically controls groundwater flow. The pumped water from the quarry is managed in accordance with a National Pollution Discharge Elimination System (NPDES) permit. Quarry dewatering results in all the perimeter uppermost aquifer CCR monitoring wells being upgradient of the SQLF CCR unit.

Because the uppermost aquifer is in an area where pumping has been performed continuously before CCR disposal began, and will be continued to be dewatered, a continuous inward hydraulic gradient is maintained. As a result, there is no reasonable probability for the uppermost aquifer perimeter monitoring wells to have been affected by the SQLF CCR unit operations to date, nor could they be in the future under current pumping conditions.



# 2.0 Groundwater Monitoring

# 2.1 Monitoring Well Network

A groundwater monitoring system has been established for the SQLF CCR unit as detailed in the *Groundwater Monitoring System Summary Report – DTE Electric Company Sibley Quarry Coal Combustion Residual Landfill* (GWMS Report) (TRC, October 2017). The detection monitoring well network for the SQLF CCR unit currently consists of eight monitoring wells, MW-101 through MW-107 and MW-108A, which replaced decommissioned monitoring well MW-108 in January 2017. Monitoring wells MW-101 through MW-107 and MW-108A are located around the perimeter of the SQLF and provide data on both background and perimeter groundwater quality that has not been affected by the CCR unit (total of eight background/compliance monitoring wells) given that inward gradients are maintained by continuous dewatering within the quarry. All monitoring wells are screened in the uppermost aquifer. 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 2024 (1SA24) was performed on April 8 and 9, 2024, 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 eight monitoring well locations. Groundwater samples were collected from the eight detection monitoring wells for the Appendix III indicator parameters and field parameters. A summary of the groundwater data collected during the April 2024 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 2024 (2SA24) was performed on October 7 and 8, 2024 by TRC personnel and samples were analyzed by Eurofins in accordance with the QAPP. Static water elevation data were collected at all eight monitoring well locations. Groundwater samples were collected from the eight detection monitoring wells for the Appendix III indicator parameters and field parameters. A summary of the groundwater data collected during the October 2024 event is provided on Table 1 (static groundwater elevation data), Table 2 (field data), and Table 4 (analytical results). The laboratory analytical reports and field data are included in Appendix B.



# 2.2.2 Data Quality Review

Data from each round were evaluated for completeness, overall quality and usability, methodspecified sample holding times, precision and accuracy, and potential sample contamination. The data were found to be complete and usable for the purposes of the CCR monitoring program, with the following exception:

■ The relative percent difference (RPD) for TDS in samples DUP-01 and MW-108A was above 30% in the October 2024 sampling event. Therefore, the positive results for TDS in all groundwater samples in this data set should be considered estimated, as summarized in Appendix C.

#### 2.2.3 Groundwater Flow Rate and Direction

Groundwater elevation data collected during the April and October 2024 sampling events continue to show that groundwater within the uppermost aquifer flows radially into the quarry as a result of continuous pumping/dewatering at the site. Groundwater potentiometric surface elevations measured across the site during the April 2024 and the October 2024 sampling events are provided on Table 1 and were used to construct the groundwater potentiometric surface maps shown on Figures 3 and 4, respectively.

The data indicates that current groundwater flow rates and direction are consistent with previous monitoring events. The average hydraulic gradients throughout the site were 0.100 ft/ft for both monitoring events, resulting in estimated average seepage velocities of approximately 6.8 ft/day or 2,500 ft/year, using the average hydraulic conductivity of 6.8 ft/day (Golder, 2015) and an assumed effective porosity of 0.1.

Given that groundwater flow is maintained inward toward the quarry under active pumping, all the perimeter monitoring wells in the groundwater monitoring system are located in an upgradient position relative to the landfill. Therefore, there is no potential for groundwater to migrate away from the SQLF CCR unit.



# 3.0 Statistical Evaluation

# 3.1 Establishing Background Limits

As discussed in the Stats Plan, intrawell statistical methods for the SQLF were selected because the uppermost aquifer is in an area where pumping has been performed continuously since before CCR disposal began, and will be continued to be dewatered, resulting in a maintained continuous inward hydraulic gradient. Given that groundwater flow is inward under pumping conditions toward the quarry, all the perimeter monitoring wells in the groundwater monitoring system are located in an upgradient position relative to the landfill. Therefore, monitoring of the SQLF CCR unit using interwell statistical methods (upgradient to downgradient) is not possible. This also supports that the aquifer is unaffected by the CCR unit, where, as a result of the continuously maintained inward gradient, there is no reasonable probability for the perimeter monitoring wells within the uppermost aquifer to have been affected by the SQLF CCR unit operations to date, nor could they be in the future under current pumping conditions. An intrawell statistical approach requires that each of the monitoring wells double as background and compliance wells, 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 eight established detection monitoring wells (MW-101 through MW-107 and MW108A). -The initial statistical evaluation of the background data is presented in the 2017 Annual Report. The Appendix III background limits for each monitoring well will be used throughout the detection monitoring period to determine whether groundwater has been impacted from the SQLF CCR unit by comparing concentrations in the detection monitoring wells to their respective background limits for each Appendix III indicator parameter.

Consistent with the Stats Plan and the *USEPA's Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (Unified Guidance, USEPA, 2009), prediction limits are periodically updated to reflect the additional data and additional temporal variability observed over time. The Appendix III prediction limits for the SQLF were updated per the Stats Plan and Unified Guidance in December 2021 to incorporate additional data collected since 2017 as presented in the December 15, 2021 Technical Memorandum, *Prediction Limit Update – DTE Electric Company, Sibley Quarry 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 2024 Semiannual Event (April 2024)

The concentrations of the indicator parameters in each of the detection monitoring wells (MW-101 through MW-107 and MW-108A) were compared to their respective statistical background limits calculated from the background data collected from each individual well (i.e., monitoring data from MW-101 is compared to the background limit developed using the background dataset from MW-101, and so forth).



The statistical evaluation of the April 2024 Appendix III indicator parameters shows no initial potential SSIs compared to background for any of the constituents. The chloride concentration at MW-101 has been previously demonstrated to be from natural variability and not from a release at SQLF CCR unit as presented in the still applicable August 2020 ASD. Therefore, no verification resampling was performed. The comparisons for the April 2024 monitoring event are presented on Table 3.

# 3.3 Data Comparison to Background Limits – Second 2024 Semiannual Event (October 2024)

The concentrations of the indicator parameters in each of the detection monitoring wells (MW-101 through MW-107 and MW-108A) were compared to their respective statistical background limits calculated from the background data collected from each individual well (i.e., monitoring data from MW-101 is compared to the background limit developed using the background dataset from MW-101, and so forth).

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

■ TDS at MW-108A.

As discussed in Section 2.2.2, the RPD for TDS in samples DUP-01 and MW-108A was above 30% in the October 2024 sampling event. Therefore, the positive results for TDS in all groundwater samples in this data set including for MW-108A should be considered estimated, as summarized in Appendix C. The boron and chloride concentrations at MW-101 and the chloride and sulfate concentrations at MW-107 have been demonstrated to be from natural variability and not from the SQLF CCR unit as presented in the still applicable ASDs listed in Table 4.

The initial observation of a constituent concentration above the established background limits does not constitute a SSI. Per the Stats Plan, if there is an initial exceedance of a prediction limit for one or more of the constituents that have not been attributed to an alternate source, the well(s) of concern can be resampled within 30 days of the completion of the initial statistical analysis for verification purposes. Therefore, verification resampling was performed at MW-108A for TDS as described in Section 3.4. There were no potential SSIs compared to background for boron, calcium, chloride fluoride, pH, or sulfate. The statistical evaluation of the October 2024 Appendix III indicator parameters are presented on Table 4.

# 3.4 Verification Resampling – Second Semiannual Event (October 2024)

Verification resampling is recommended per the Stats Plan and the Unified Guidance to achieve performance standards as specified by §257.93(g) in the CCR Rule. Per the Stats Plan, if there is an exceedance of a prediction limit for one or more of the parameters, the well(s) of concern will be resampled within 30 days of the completion of the initial statistical analysis. Constituents that initially exceed their statistical limit (i.e., have no previously recorded SSIs) will be analyzed for verification purposes. As such, verification resampling was conducted on December 5, 2024, by TRC personnel for TDS at MW-108A. A summary of the groundwater data collected during the verification resampling event is provided on Table 4. The associated data quality



review is included in Appendix B.

The December 2024 verification sampling did not confirm the SSI for TDS at monitoring well MW-108A. Therefore, in accordance with the Stats Plan and the Unified Guidance, the initial TDS exceedance is not statistically significant, and no SSI was recorded at MW-108A during the October 2024 sampling event. As such, DTE Electric will continue detection monitoring at the SQLF CCR Unit in 2025 pursuant to §257.94 of the CCR Rule.



# 4.0 Conclusions and Recommendations

No SSIs over background limits were observed during the April and October 2024 monitoring events. Therefore, detection monitoring will be continued at the SQLF CCR unit in accordance with §257.94.

As discussed above, and in the GWMS Report, because the uppermost aquifer is in an area where pumping has been performed continuously since before CCR disposal began and will continue to be dewatered to maintain a continuous inward hydraulic gradient, there is no reasonable probability for the uppermost aquifer perimeter monitoring wells to have been affected by the SQLF CCR unit operations to date, nor could they be in the future under current pumping conditions.

No corrective actions were performed in 2024. The next semiannual monitoring event at the SQLF CCR unit is scheduled for the second calendar quarter of 2025.



# 5.0 Groundwater Monitoring Report Certification

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

# Annual Groundwater Monitoring Report Certification Monroe Power Plant Fly Ash Basin and Vertical Extension Landfill Monroe, Michigan

#### **CERTIFICATION**

I hereby certify that the annual groundwater monitoring 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).

Expiration Date:  December 17, 2025	DAVID B
Date: January 31, 2025	MCKENZIE * MCKENZIE ENGINEER No. 6201042332
	December 17, 2025  Date:



# 6.0 References

- TRC. August 2016; Revised March 2017. CCR Groundwater Monitoring and Quality
  Assurance Project Plan DTE Electric Company Sibley Quarry Coal Combustion
  Residual Landfill, 801 Fort Street, Trenton, Michigan. Prepared for DTE Electric Company.
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- TRC. August 8, 2019. Alternate Source Demonstration: 2019 First Semiannual Detection Monitoring Sampling Event Sibley Quarry Coal Combustion Residual Landfill, Trenton, Michigan. Prepared for DTE Electric Company.
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- TRC. February 29, 2024. Alternate Source Demonstration: 2023 Second Semiannual Detection Monitoring Sampling Event Sibley Quarry Coal Combustion Residual Landfill, Trenton, Michigan. Prepared for DTE Electric Company.
- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA facilities, Unified Guidance. Office of Conservation and Recovery. EPA 530/R-09-007.



# **Tables**

# Table 1

Summary of Groundwater Elevation Data – April and October 2024
Sibley Quarry Landfill – RCRA CCR Monitoring Program
Trenton, Michigan

Well ID	II ID MW-101		MV	V-102	MW	-103	MW	-104	MW-	-105	MW	-106	MW	-107	MW-	-108A
Date Installed	e Installed 7/14/2015		7/16/2015		7/15/2015		7/16/2015		3/30/2016		3/28/2016		4/6/2016		1/24/2017	
TOC Elevation	n 617.67		61	615.03		607.23		608.39		593.28		6.75	610.03		594.06	
Geologic Unit of Screened Interval	Limestone Redrock		Limesto	ne Bedrock	Limestone Bedrock		Sandstone Bedrock									
Bottom of Open Hole Elevation	205.2		342.6		294.7		296.0		290.7		304.0		336.5		290.5	
Unit	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft
Measurement Date	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation										
04/08/2024	163.80	453.87	222.64	392.39	153.98	453.25	118.50	489.89	19.63	573.65	113.80	492.95	155.20	454.83	51.43	542.63
10/07/2024	163.40	454.27	220.90	394.13	159.20	448.03	118.10	490.29	23.10	570.18	114.00	492.75	151.10	458.93	52.50	541.56

#### Notes:

Elevations are reported in feet relative to the national geodetic vertical datum of 1929.

ft BTOC - feet below top of casing

**Table 2**Summary of Groundwater Field Parameters – April and October 2024
Sibley Quarry Landfill
Trenton, Michigan

Sample Location	Sample Date	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Specific Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-101	4/8/2024	1.46	-27.2	7.0	1,540	12.20	1.58
10100-101	10/7/2024	0.75	-255.0	7.4	2,108	12.40	7.00
MW-102	4/8/2024	8.04	57.2	6.9	1,426	12.20	2.07
10100-102	10/8/2024	3.08	-180.0	7.0	2,039	11.40	30.00
MW-103	4/8/2024	1.55	-272.3	7.1	2,430	12.30	0.93
1000-103	10/7/2024	0.70	-348.0	7.3	3,378	12.90	7.80
MW-104	4/9/2024	1.86	-189.4	7.0	2,302	12.30	1.52
10100-104	10/7/2024	0.60	-320.0	7.3	3,203	12.40	0.65
MW-105	4/8/2024	1.45	41.5	6.8	8,022	11.60	1.19
1007-105	10/7/2024	0.58	-254.9	7.4	11,905	14.00	2.50
MW-106	4/8/2024	1.52	-277.1	7.0	2,328	12.60	0.42
10100-100	10/8/2024	0.70	-350.0	7.1	3,236	12.30	20.00
MW-107	4/8/2024	1.25	-268.6	6.9	35,776	12.10	2.51
10100-107	10/7/2024	0.50	-340.0	7.2	48,995	13.40	3.20
	4/9/2024	1.92	-44.7	6.8	4,422	11.40	0.79
MW-108A	10/7/2024	0.76	-215.0	7.0	6,336	12.10	7.00
	12/5/2024 <sup>(1)</sup>	0.00	-276.0	6.9	4,737	10.50	3.82

#### Notes:

mg/L -Milligrams per Liter.

mV - Millivolts.

SU - Standard Units.

umhos/cm - Micromhos per centimeter.

°C - Degrees Celsius.

NTU - Nephelometric Turbidity Unit

<sup>(1)</sup> - Results shown for verification sampling performed on 12/5/2024.

# Table 3 Comparison of Detection Monitoring Parameter Results to Background Limits – April 2024 Sibley Quarry Landfill Trenton, Michigan

Sample Location:		MW	MW-101		MW-102		MW-103		-104	MW	-105	MW	-106	MW	-107	MW-	108A
	Sample Date:		DI	4/8/2024	PL	4/8/2024	PL	4/9/2024	PL	4/8/2024	PL	4/8/2024	PL	4/8/2024	DI	4/9/2024	DI
Constituent	Unit	Data	FL	Data	FL	Data	Data	Data	ata	Data	r L	Data	F'L	Data	rL.	Data	FL
Appendix III																	
Boron	ug/L	320	320	120	150	650	820	630	950	1,900	2,600	610	2,400	1,300	1,600	1,100	1,400
Calcium	ug/L	220,000	260,000	250,000	300,000	610,000	630,000	500,000	520,000	720,000	790,000	610,000	640,000	1,400,000	1,500,000	440,000	460,000
Chloride	mg/L	290 <sup>(1)</sup>	220	200	260	150	160	220	690	3,100	4,500	110	180	19,000	21,000	1,600	2,100
Fluoride	mg/L	1.8	2.0	1.5	1.8	1.7	2.0	1.6	2.3	0.95	5.8	1.6	3.0	1.6	2.5	0.9	2.5
pH, Field	su	7.0	6.8 - 7.8	6.9	6.5 - 7.6	7.1	6.7 - 7.6	7.0	6.8 - 7.9	6.8	6.6 - 7.9	7.0	6.5 - 7.6	6.9	6.5 - 7.6	6.8	7.0 - 7.0
Sulfate	mg/L	540	700	490	720	1,900	2,100	1,600	1,900	1,900	2,200	1,900	2,100	3,300	3,700	1,100	1,200
Total Dissolved Solids	mg/L	1,400	1,400	1,300	1,700	3,100	3,600	2,900	3,700	6,900	9,400	3,000	3,200	35,000	39,000	4,000	4,900

# Notes:

ug/L - micrograms per liter.
mg/L - milligrams per liter.
SU - standard units; pH is a field parameter.

All metals were analyzed as total unless otherwise specified.

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

(1) - Exceedance was determined to be from an alternate source in the still applicable First 2020 Semiannual Alternate Source Demonstration dated 8/26/2020.

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### Table 4

# Comparison of Groundwater Detection Parameter Results to Background Limits – October 2024 Sibley Quarry Landfill Trenton, Michigan

Sa	nple Location:	MW-	MW-101		MW-102		MW-103		-104	MW	-105	MW-	-106	MW	-107		MW-108A	
Sample Date:		10/7/2024	DI	10/8/2024	PI	10/7/2024	PL	10/7/2024	10/7/2024 PL	10/7/2024	/7/2024 <sub>DI</sub>	10/8/2024	- E	10/7/2024	DI	10/7/2024	12/5/2024 <sup>(1)</sup>	DI
Constituent	Unit	Data	r L	Data	FL	Data	FL	Data	FL	Data	r L	Data	L	Data	FL	Data		FL
Appendix III																		
Boron	ug/L	330 <sup>(2)</sup>	320	130	150	730	820	710	950	2,500	2,600	710	2,400	1,400	1,600	1,200		1,400
Calcium	ug/L	210,000	260,000	240,000	300,000	570,000	630,000	460,000	520,000	680,000	790,000	550,000	640,000	1,400,000	1,500,000	390,000		460,000
Chloride	mg/L	270 <sup>(3)</sup>	220	180	260	150	160	260	690	3,500	4,500	100	180	24,000 <sup>(4)</sup>	21,000	1,700		2,100
Fluoride	mg/L	1.9	2.0	1.8	1.8	1.9	2.0	2.0	2.3	1.2	5.8	1.7	3.0	< 5	2.5	1.1		2.5
pH, Field	su	7.4	6.8 - 7.8	7.0	6.5 - 7.6	7.3	6.7 - 7.6	7.3	6.8 - 7.9	7.4	6.6 - 7.9	7.1	6.5 - 7.6	7.2	6.5 - 7.6	7.0		7.0 - 7.0
Sulfate	mg/L	540	700	600	720	2,000	2,100	1,800	1,900	2,100	2,200	1,900	2,100	4,000 <sup>(4)</sup>	3,700	1,100		1,200
Total Dissolved Solids	mg/L	1,300	1,400	1,600	1,700	3,000	3,600	2,600	3,700	8,100	9,400	3,000	3,200	38,000	39,000	10.000	3,200	4,900

#### Notes:

ug/L - micrograms per liter.

mg/L - milligrams per liter.

SU - standard units; pH is a field parameter.

All metals were analyzed as total unless otherwise specified.

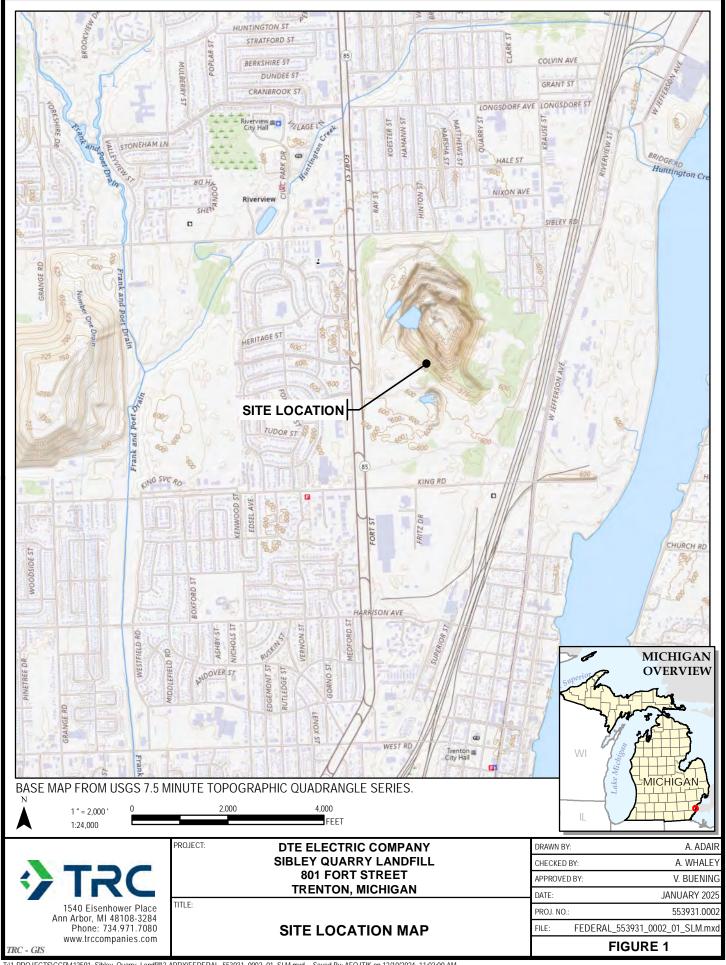
**Bold** font indicates an exceedance of the Prediction Limit (PL).

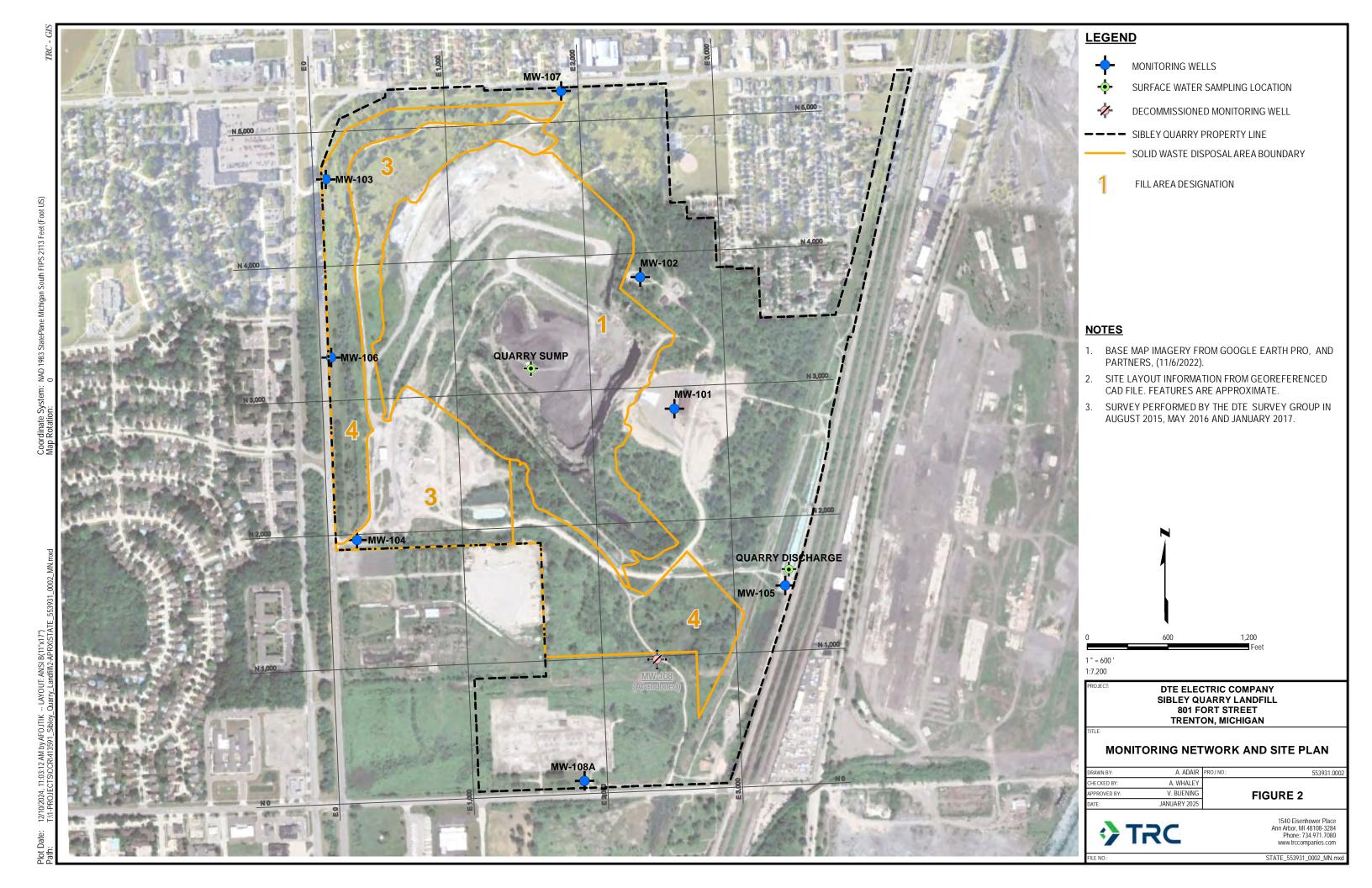
- (1) Results shown for verification sampling performed on 12/5/2024.
- (2) Exceedance was determined to be from an alternate source in the still applicable First 2019 Semiannual Alternate Source Demonstration dated 8/8/2019.
- (3) Exceedance was determined to be from an alternate source in the still applicable First 2020 Semiannual Alternate Source Demonstration dated 8/26/2020.
- (4) Exceedance was determined to be from an alternate source in the still applicable Second 2023 Semiannual Alternate Source Demonstration dated 2/29/2024.

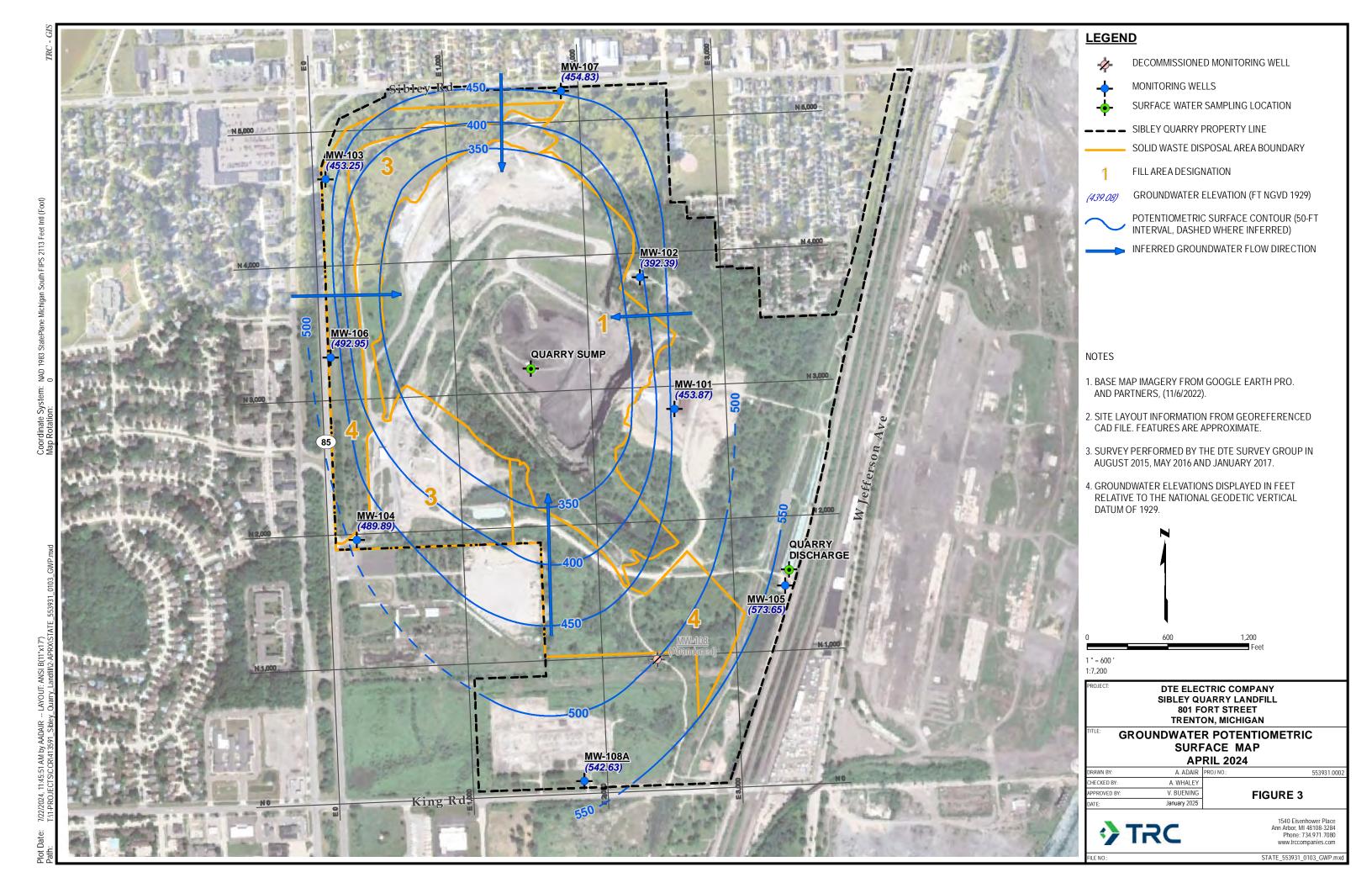
Page 1 of 1 January 2025

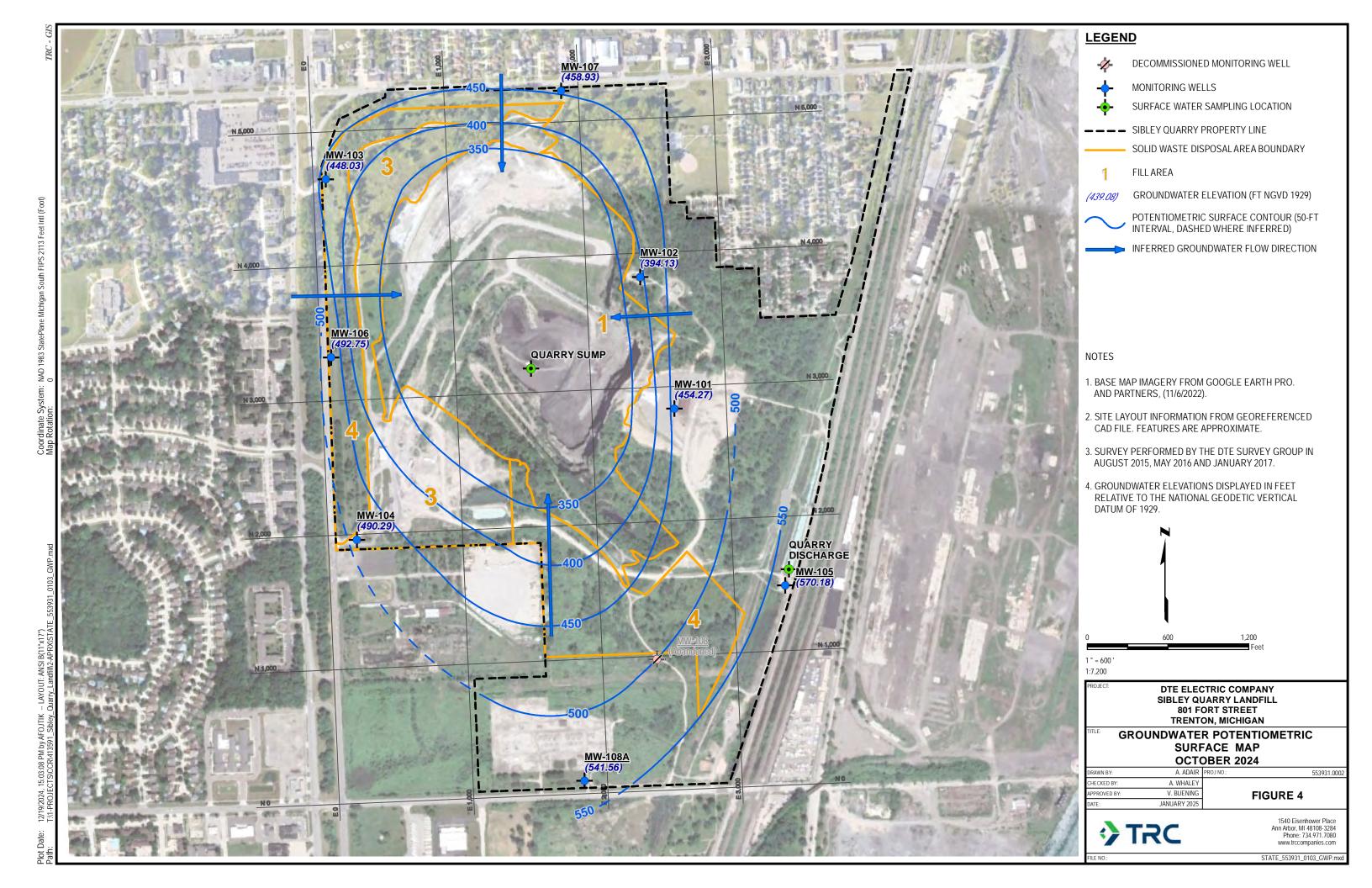


# **Figures**











# Appendix A Alternate Source Demonstration: 2023 Second Semiannual Detection Monitoring Sampling Event



February 29, 2024

Jim Bakun
District Geologist
Materials Management Division
Michigan Department of Environment, Great Lakes, and Energy (EGLE)
27700 Donald Court
Warren, MI 48092-2793

Subject: Alternate Source Demonstration: 2023 Second Semiannual Detection Monitoring

Sampling Event

Sibley Quarry Landfill Coal Combustion Residual Unit

801 Fort Street, Trenton, Michigan

Dear Mr. Bakun:

TRC was retained by DTE Electric Company (DTE Electric) to conduct routine groundwater monitoring activities for the uppermost aquifer at the Sibley Quarry Landfill (SQLF) coal combustion residual (CCR) unit, located in Trenton, Michigan. Routine groundwater monitoring at the SQLF CCR unit is conducted in accordance with the Michigan Department of Environment, Great Lakes, and Energy (EGLE)-approved *Hydrogeological Monitoring Plan for the DTE Electric Company Sibley Quarry Landfill, 801 Fort Street, Trenton, Michigan* (SQLF HMP) (TRC, November 5, 2019; Revised March 17, 2020) and the United States Environmental Protection Agency (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) (the CCR Rule), as amended (USEPA, April 2015).

As discussed in the Fourth Quarter 2023 Hydrogeological Monitoring and Performance Monitoring Report (Fourth Quarter 2023 Report) (TRC, January 2024), the statistical evaluation of the October 2023 detection monitoring indicator parameters showed potential statistically significant increases (SSIs) over the prediction limit (PL) for chloride and sulfate at MW-107 (Table 1). Verification resampling for the October 2023 event was conducted on December 11, 2023 by TRC personnel. The verification results for chloride and sulfate at MW-107 were slightly above their respective prediction limits, confirming the initial potential SSIs from the October 2023 sampling event (Table 1).

In accordance with §257.94(e)(2) and the 2020 HMP, DTE Electric may demonstrate that a source other than the CCR unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. This Alternate Source Demonstration (ASD) has been prepared to address the SSIs identified in the October 2023 detection monitoring event and demonstrates that the chloride and sulfate SSIs are not due to a release of CCR leachate into the uppermost aquifer.

# **Background**

The SQLF is located in Section 7, Township 4 South, Range 11 East, at 801 Fort Street in Trenton, Wayne County, Michigan. The site location is shown in Figure 1. The former limestone quarry began operations in the mid-1800s and was mined to over 300 feet below ground surface (ft bgs). Quarry dewatering activities were necessary to facilitate limestone mining. The groundwater elevation is currently maintained at a depth of approximately 300 feet below ground surface. In 1951, Detroit Edison (now DTE Electric) acquired the quarry for the purpose of CCR landfilling (TRC, January 2018).

The SQLF resides in an area characterized by near surface deposits of approximately 16.5 to 74.5 feet of glacio-lacustrine clay and silt units on top of thick strata of dolomite and limestone bedrock. Limestone bedrock strata underlaying the clay-rich soil extends to over 310 ft bgs and is considered the uppermost aquifer at the site (TRC, January 2018). The CCR detection monitoring well network for the SQLF currently consists of eight monitoring wells installed in the uppermost aquifer, details for which can be found in the Groundwater Monitoring System Summary Report – DTE Electric Sibley Quarry Coal Combustion Residual Landfill (TRC, October 2017). Monitoring well locations are shown in Figure 2.

Due to the dewatering of the quarry, at a rate of approximately 1.5 million gallons per day (MGD), groundwater levels are significantly lower within the bedrock monitoring wells that are closest to the quarry. The pumping creates an inward hydraulic gradient and prevents groundwater contact with the CCR material. All CCR monitoring network wells are therefore considered upgradient of the CCR disposal unit. Based on the site-specific hydrogeological conditions, the uppermost aquifer cannot be affected by CCR disposal operations. A current potentiometric map of the site is provided in Figure 3.

### **Alternate Source Demonstration**

As discussed above, verification resampling was performed as recommended per the Stats Plan and the Unified Guidance to achieve performance standards as specified by §257.93(g) in the CCR Rule and the 2020 HMP. Per the Statistical Evaluation Plan, if there is an exceedance of a prediction limit for one or more of the parameters, the well(s) of concern will be resampled within 30 days of the completion of the initial statistical analysis. Only constituents that initially exceed their statistical limit (i.e., have no previously recorded SSIs) will be analyzed for verification purposes. As such, verification resampling was conducted on December 11, 2023, by TRC personnel, and groundwater samples were collected in accordance with the CCR Groundwater Monitoring and Quality Assurance Project Plan – DTE Electric Company Sibley Quarry Coal Ash Landfill (QAPP) (TRC, August 2016; Revised March 2017) and the 2020 HMP. A summary of the groundwater data collected during the verification resampling event is provided on Table 1.

The verification resampling confirmed the SSI exceedances for chloride and sulfate at MW-107 (Table 1). The following discussion presents the Alternative Source Demonstration (ASD) for the confirmed prediction limit exceedance for chloride and sulfate at MW-107. As mentioned above, continuous quarry dewatering activities that hydraulically control groundwater levels in the SQLF and maintain significant inward gradients toward the SQLF demonstrate that Appendix III concentrations in groundwater are from an off-site source other than the SQLF CCR unit. Prior to and during CCR landfilling operations, which began at the Sibley Quarry in 1951, dewatering has occurred via a sump in



the bottom of the 300-foot-deep excavation. The groundwater discharge rate is kept at approximately 1.5 MGD to maintain the water level at the bottom of the quarry at approximately 300 ft bgs. Dewatering operations will continue, ensuring that no direct contact between the groundwater and the CCR waste occurs, and that an inward hydraulic gradient will be maintained, preventing any release of CCR constituents. As a result of dewatering activities, the groundwater monitoring wells are all upgradient and therefore changes in groundwater constituent concentrations are derived from natural conditions within the aquifer and/or other off-site anthropogenic sources. Additional supporting lines of evidence specific to the SSIs are presented below.

<u>Chloride and Sulfate at MW-107</u>: The SSI of chloride and sulfate in the groundwater at MW-107, shown graphically as data points greater than the prediction limit in Figure 4 and Figure 5, respectively, is the result of natural variability in the groundwater quality and/or from an off-site source and not the release of CCR constituents from the SQLF CCR unit. Multiple lines of evidence are provided in support of this conclusion and are as follows:

- Laboratory precision and accuracy—The laboratory-reported chloride and sulfate concentrations for the MW-107 groundwater samples collected during the second semiannual 2023 sampling event (October 2023 original sample and the December 2023 confirmation sample) are slightly higher than the PL. However:
  - Chloride: The laboratory precision and accuracy range for chloride is +/- 20%. The October (24,000 milligrams per liter (mg/L)) and December (23,000 mg/L) 2023 groundwater samples had chloride detected at concentrations that were only slightly above the MW-16-01 PL of 21,000 mg/L. As such, the PL for each of these samples is within the margin of error of the laboratory results.
  - Sulfate: The laboratory precision and accuracy range for sulfate is +/- 20%. The December 2023 groundwater sample (3,800 mg/L) had sulfate detected at a concentration that was only slightly above the MW-16-01 PL of 3,700 mg/L. As such, the PL for the December 2023 confirmation sample is within the margin of error of the laboratory results.
- **Dominant groundwater type** Groundwater at the SQLF is from a fractured limestone and dolomite formation underlain by a sulfate and chloride-rich groundwater within a sandstone formation. This is apparent in the background monitoring data for the monitoring wells at the SQLF that show:
  - Sulfate: Sulfate concentrations in background reportedly range from 540 mg/L to 3,800 mg/L. The SSI concentration of sulfate measured in MW-107 during the October detection monitoring event is reported as 5,200 mg/L, and the December 2023 verification resample is reported as 3,800 mg/L. The sulfate concentration for the verification resample event for MW-107 is within the range of background variation at the SQLF.
- Off-site anthropogenic sources The SQLF has groundwater pumped at approximately 1.5 MGD drawing groundwater from off-site onto the SQLF CCR unit as shown on Figure 3, including from the north into the area of MW-107. Sibley Road to the north of the SQLF CCR unit, and immediately north of MW-107, is a major east-west road that has had road salt applied to it for many decades in the winter to melt ice and snow. Road salt is a significant source of chloride, and sulfate is often present as an impurity in road salt. The off-site operations and maintenance activities have the potential to contribute anthropogenic sources of chloride and sulfate to groundwater that is not from the SQLF CCR unit operations.



- Insufficient background sampling timeline to account for long-term trends Variability in chloride and sulfate concentrations observed in the groundwater at SQLF during the background sampling events provides evidence of the heterogeneity of this constituent in groundwater. Although background concentrations have been updated in 2021 to account for additional temporal variation since the onset of monitoring in 2016, the background dataset still represents a relatively short timeframe considering that the potential horizontal groundwater flow rate towards the quarry ranges from approximately 4.7 feet/day (~1,700 feet/year) to 7.0 feet/day (~2,600 feet/year) for the uppermost aquifer at SQLF (TRC, October 2017; Revised October 2019). Due to this inward hydraulic gradient, groundwater from off-site replaces the groundwater on-site in a relatively short timeframe and background groundwater conditions can change significantly due to potential for off-site influences that are unrelated to on-site activities. The relatively short duration of the background sampling events limit the ability of the statistical analysis to capture the temporal variability and/or influences from other off-site anthropogenic sources in the groundwater quality at the SQLF, as can be seen in the time-series plots on Figures 4 and 5 for chloride and sulfate concentrations, respectively, at MW-107.
- Lack of similar increase in other indicator parameters The lack of SSIs across the other wells within the monitoring well network during this event also supports a source other than CCR for the observed chloride and sulfate SSIs at MW-107.

#### **Conclusions and Recommendations**

The information provided in this report serves as the ASD for the DTE Electric SQLF; this ASD was prepared in accordance with 40 CFR 257.94(e)(2) of the CCR Rule and the 2020 HMP and demonstrates that the chloride and sulfate SSIs determined based on the October 2023 detection monitoring event are due to the natural variability of background groundwater quality within the uppermost aquifer and/or from off-site anthropogenic sources drawn on-site due to the continuous dewatering. Therefore, based on the information provided in this ASD, DTE Electric will continue detection monitoring as per 40 CFR 257.94 at the SQLF CCR unit.



# Signatures and Certifications

# **Engineer Certification Statement**

I hereby certify that the alternative source demonstration presented within this document for the SQLF CCR unit has been prepared to meet the requirements of Title 40 CFR §257.94(e)(2) of the Federal CCR Rule and the March 2020 *Hydrogeological Monitoring Plan for the DTE Electric Company Sibley Quarry Landfill* (2020 HMP). This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR §257.94(e)(2) and the 2020 HMP.

Name: David B. McKenzie, P.E.	Expiration Date: December 17, 2025	DAVID B MCKENZIE *
Company: TRC Engineers Michigan, Inc.	Date: February 29, 2024	ENGINEER No. 6201042332

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

Sincerely,

TRC

Vincent E. Buening, C.P.G Sr. Project Manager Sarah B. Holmstrom, P.G Senior Hydrogeologist



# **Attachments**

Table 1 Comparison of Verification Sampling Results to Background Limits
 Figure 1 Site Location Map
 Figure 2 Monitoring Network and Site Plan
 Figure 3 Groundwater Potentiometric Surface Map – October 2023

Figure 4 MW-107 Chloride Time Series Plot Figure 5 MW-107 Sulfate Time Series Plot

Appendix A References

cc: Christopher P. Scieszka, DTE Electric Company



# **Table**



### Table 1

Comparison of Detection Monitoring Parameter Results to Background Limits – October and December 2023
Sibley Quarry Landfill – RCRA CCR Monitoring Program
Trenton, Michigan

Sample Location: Sample Date:		MW-101		MW-102		MW-103		MW-104		MW	-105	MW-	-106		MW-107		MW-	·108A
		10/17/2023	PI	10/17/2023	PL	10/18/2023	DI	10/18/2023	DI	10/17/2023	PL	10/18/2023	DI	10/17/2023	12/11/2023 (1)	PL	10/18/2023	DI
Constituent	Unit	Data	FL	Data	FL	Data	FL	Data	PL	Data	PL PL	Data	P.L.	Data	Data	PL.	Data	PL PL
Appendix III																		
Boron	ug/L	340 <sup>(2)</sup>	320	140	150	750	820	790	950	2,500	2,600	730	2,400	1,500		1,600	1,300	1,400
Calcium	ug/L	210,000	260,000	260,000	300,000	560,000	630,000	460,000	520,000	690,000	790,000	540,000	640,000	1,400,000		1,500,000	400,000	460,000
Chloride	mg/L	220	220	180	260	140	160	220	690	3,600	4,500	100	180	24,000	23,000	21,000	1,700	2,100
Fluoride	mg/L	1.8	2.0	1.6	1.8	1.7	2.0	1.7	2.3	1.2	5.8	1.6	3.0	< 5		2.5	1.0	2.5
pH, Field	su	7.1	6.8 - 7.8	6.9	6.5 - 7.6	6.8	6.7 - 7.6	7.0	6.8 - 7.9	6.8	6.6 - 7.9	6.9	6.5 - 7.6	6.8	6.8	6.5 - 7.6	6.9	7.0 - 7.0
Sulfate	mg/L	500	700	600	720	1,800	2,100	1,800	1,900	2,200	2,200	1,900	2,100	5,200	3,800	3,700	1,100	1,200
Total Dissolved Solids	mg/L	1,400	1,400	1,500	1,700	3,100	3,600	2,700	3,700	7,700	9,400	3,000	3,200	31,000		39,000	4,100	4,900
Part 115 Parameters																		
Iron	ug/L	690	n<8	850	n<8	48	n<8	170	n<8	2,300	n<8	2,000	n<8	1,300	1,300	n<8	610	n<8

### Notes:

ug/L - micrograms per liter.

mg/L - milligrams per liter.

SU - standard units; pH is a field parameter.

All metals were analyzed as total unless otherwise specified.

-- Not Analyzed

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

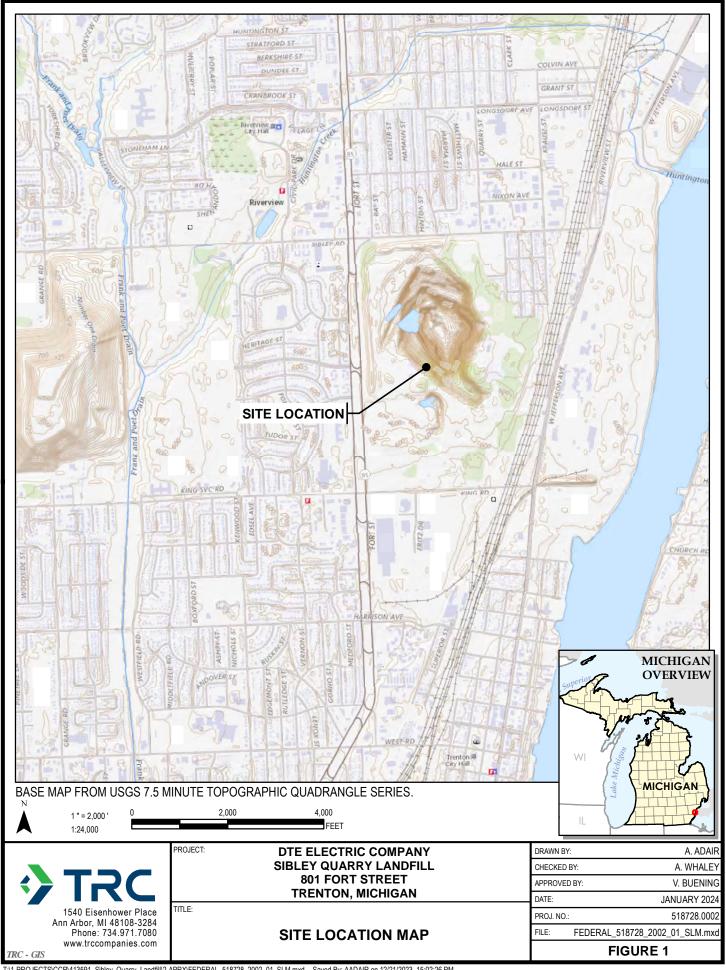
(1) - Results shown for verification sampling performed on 12/11/2023.

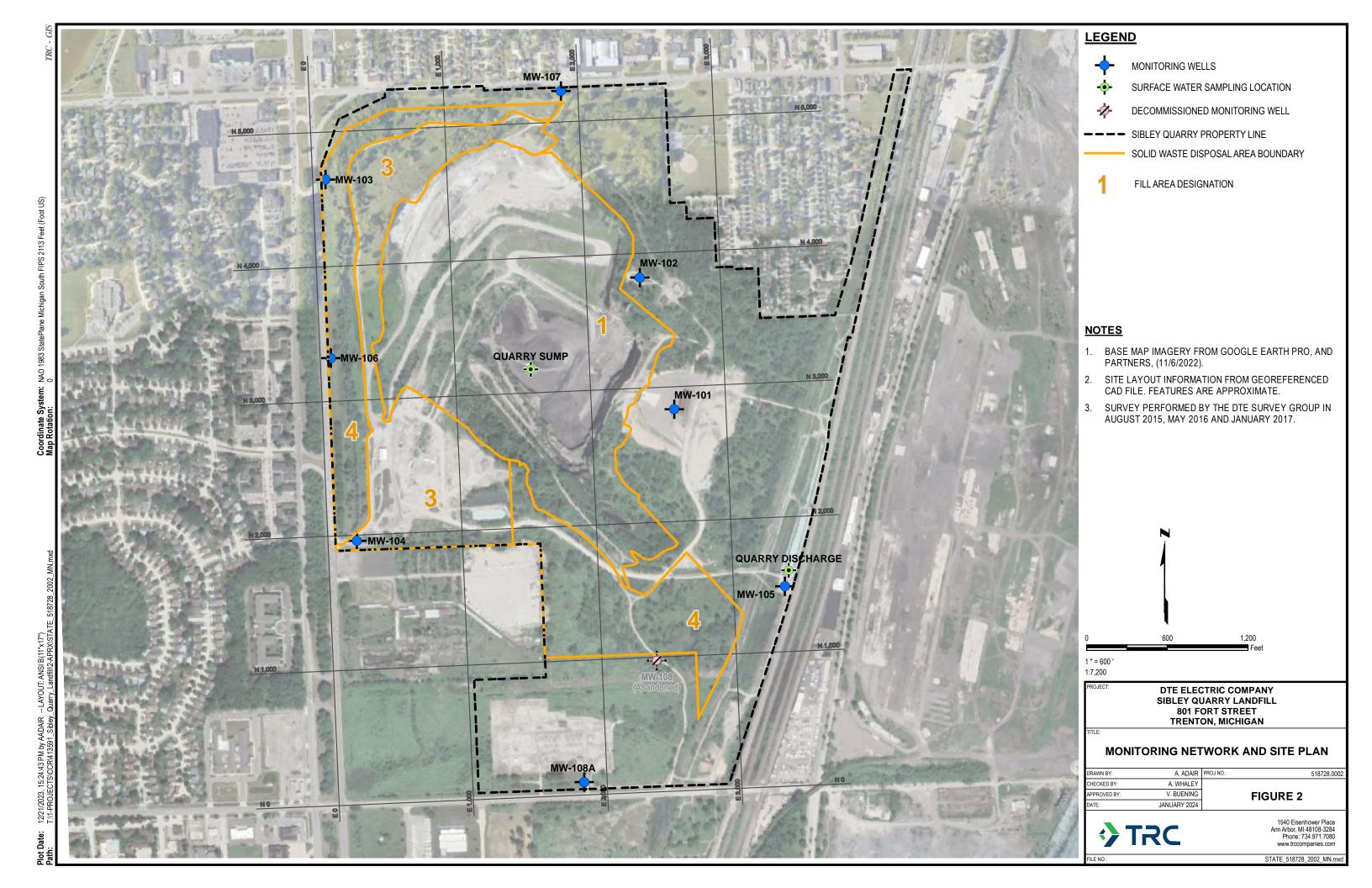
(2) - Exceedance determined to be from an alternate source in the First 2019 Semiannual alternate source demonstration dated 8/8/2019.

**RESULT** Shading and bold font indicates a confirmed exceedance of the Prediction Limit (PL).

# **Figures**







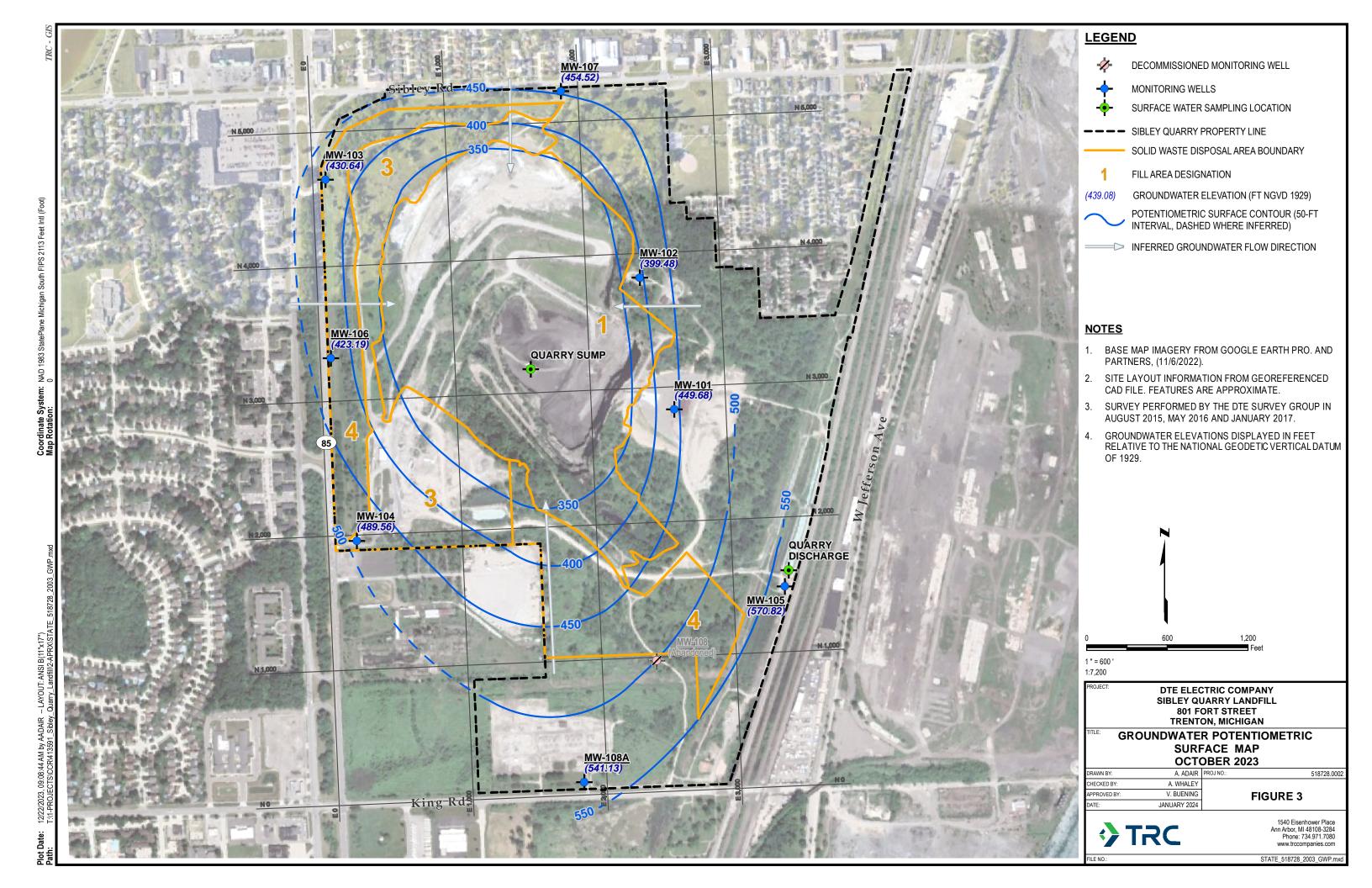


FIGURE 4
MW-107 CHLORIDE TIME SERIES PLOT

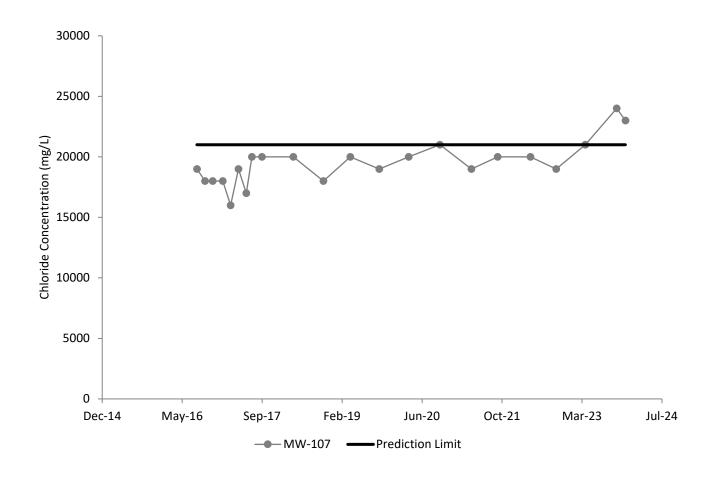
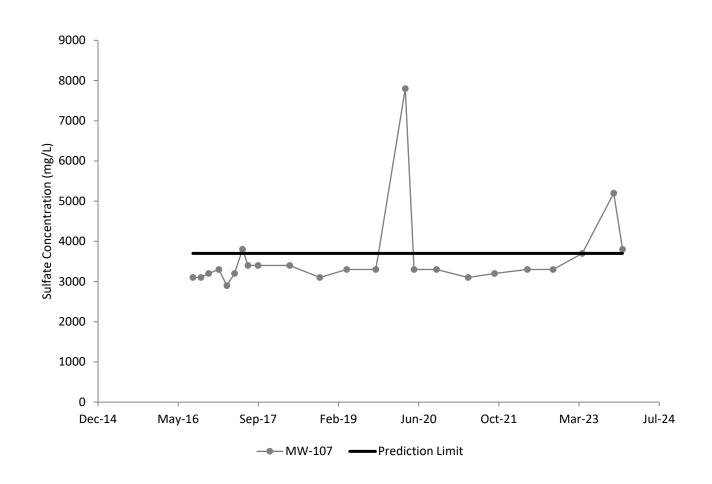


FIGURE 5
MW-107 SULFATE TIME SERIES PLOT



## Appendix A References



#### References

- TRC. August 2016; Revised March 2017 and October 2019. CCR Groundwater Monitoring and Quality Assurance Project Plan DTE Electric Company Sibley Quarry Coal Ash Landfill, 801 Fort Street, Trenton, Michigan. Prepared for DTE Electric Company.
- TRC. October 2017, Revised October 2019. Groundwater Monitoring System Summary Report, DTE Electric Company, Sibley Quarry Coal Combustion Landfill, 801 Fort Street, Trenton, Michigan.
- TRC. October 2017, Revised October 2019 and November 2019. Groundwater Statistical Evaluation Plan Coal Combustion Residual Landfill, 801 Fort Street, Trenton, Michigan. Prepared for DTE Electric Company.
- TRC. August 8, 2019. Alternate Source Demonstration: 2019 First Semiannual Detection Monitoring Sampling Event Sibley Quarry Coal Combustion Residual Landfill, Trenton, Michigan. Prepared for DTE Electric Company.TRC.
- TRC. November 2019, Revised March 2020. Hydrogeological Monitoring Plan for the DTE Electric Company Sibley Quarry Landfill,801 Fort Street, Trenton, Michigan. Prepared for DTE Electric Company.
- TRC. December 15, 2021. Prediction Limit Update DTE Electric Company, Sibley Quarry Landfill, Coal Combustion Residual Unit. Prepared for DTE Electric Company
- TRC. January 2024. Fourth Quarter 2023 Hydrogeologic Monitoring and Performance Monitoring Report. Prepared for DTE Electric Company.
- 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).
- 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.





# **Appendix B Laboratory Analytical and Field Data**

## PREPARED FOR

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

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## **JOB DESCRIPTION**

**CCR DTE Sibley Quarry** 

## **JOB NUMBER**

240-202632-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

## **Eurofins Cleveland**

#### **Job Notes**

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## **Authorization**

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

## **Table of Contents**

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#### **Definitions/Glossary**

Client: TRC Environmental Corporation.

Job ID: 240-202632-1

Project/Site: CCR DTE Sibley Quarry

#### **Qualifiers**

M	ota	le
IVI	Cla	IJ

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

U Indicates the analyte was analyzed for but not detected.

#### **Glossary**

Abbreviation	These commonly	v used abbreviations may	v or may not	be present in this report.
ADDIEVIALIOII	THESE COMMISSION	/ useu appleviations may	y Oi illay liot	ne bieseiil iii iiiis ieboii

Example 2 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

**Eurofins Cleveland** 

Page 4 of 35 4/20/2024

#### **Case Narrative**

Client: TRC Environmental Corporation.

Job ID: 240-202632-1 Project: CCR DTE Sibley Quarry

**Eurofins Cleveland** Job ID: 240-202632-1

#### Job Narrative 240-202632-1

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

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

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

#### Receipt

The samples were received on 4/11/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

#### Metals

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

#### **General Chemistry**

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

**Eurofins Cleveland** 

Page 5 of 35 4/20/2024

## **Method Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

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

#### **Protocol References:**

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

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

#### **Laboratory References:**

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

**Eurofins Cleveland** 

4/20/2024

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## **Sample Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-202632-1	MW-101	Water	04/08/24 10:50	04/11/24 08:00
240-202632-2	MW-102	Water	04/08/24 12:05	04/11/24 08:00
240-202632-3	MW-103	Water	04/08/24 13:38	04/11/24 08:00
240-202632-4	MW-104	Water	04/09/24 10:17	04/11/24 08:00
240-202632-5	MW-105	Water	04/08/24 09:44	04/11/24 08:00
240-202632-6	MW-106	Water	04/08/24 14:22	04/11/24 08:00
240-202632-7	MW-107	Water	04/08/24 12:55	04/11/24 08:00
240-202632-8	MW-108A	Water	04/09/24 08:30	04/11/24 08:00
240-202632-9	QUARRY SUMP	Water	04/09/24 09:10	04/11/24 08:00
240-202632-10	QUARRY DISCHARGE	Water	04/09/24 09:40	04/11/24 08:00
240-202632-11	DUP-01	Water	04/08/24 00:00	04/11/24 08:00

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## **Detection Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

Total/NA

Total/NA

Client Sample ID:	MW-101	Lab San	nple ID: 2	40-202632-1		
Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Boron	320	100	ug/L		6010D	Total
						Recoverable
Calcium	220000	1000	ug/L	1	6020B	Total
						Recoverable
Iron	110	100	ug/L	1	6020B	Total
						Recoverable
Chloride	290	10	mg/L	10	9056A	Total/NA
Fluoride	1.8	0.050	mg/L	1	9056A	Total/NA

10

20

mg/L

mg/L

540

1400

Client Sample ID: MW-102

Sulfate

**Total Dissolved Solids** 

Lab	Sample	ID: 240-202632-2

9056A

SM 2540C

10

Analyte	Result (	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	120		100	ug/L	1	_	6010D	Total
								Recoverable
Calcium	250000		1000	ug/L	1		6020B	Total
								Recoverable
Iron	360		100	ug/L	1		6020B	Total
								Recoverable
Chloride	200		1.0	mg/L	1		9056A	Total/NA
Fluoride	1.5		0.050	mg/L	1		9056A	Total/NA
Sulfate	490		10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	1300		20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-103

#### Lab Sample ID: 240-202632-3

Analyte	Result Qualifier	RL	Unit	Dil Fac [	Method	Prep Type
Boron	650	100	ug/L		6010D	Total
						Recoverable
Calcium	610000	1000	ug/L	1	6020B	Total
						Recoverable
Chloride	150	2.0	mg/L	2	9056A	Total/NA
Fluoride	1.7	0.10	mg/L	2	9056A	Total/NA
Sulfate	1900	20	mg/L	20	9056A	Total/NA
Total Dissolved Solids	3100	40	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-104

#### Lab Sample ID: 240-202632-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	630		100	ug/L		_	6010D	Total
								Recoverable
Calcium	500000		1000	ug/L	1		6020B	Total
								Recoverable
Iron	110		100	ug/L	1		6020B	Total
								Recoverable
Chloride	220		2.0	mg/L	2		9056A	Total/NA
Fluoride	1.6		0.10	mg/L	2		9056A	Total/NA
Sulfate	1600		20	mg/L	20		9056A	Total/NA
Total Dissolved Solids	2900		40	mg/L	1		SM 2540C	Total/NA

**Client Sample ID: MW-105** 

## Lab Sample ID: 240-202632-5

Analyte	Result Qualifier	RL	Unit	Dil Fac D M	ethod	Prep Type
Boron	1900	100	ug/L	1 60	)10D	Total
						Recoverable

This Detection Summary does not include radiochemical test results.

**Eurofins Cleveland** 

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Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

Lab Sample ID: 240-202632-	5
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Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Calcium	720000	1000	ug/L	1	6020B	Total
						Recoverable
Iron	1900	100	ug/L	1	6020B	Total
						Recoverable
Chloride	3100	50	mg/L	50	9056A	Total/NA
Fluoride	0.95	0.25	mg/L	5	9056A	Total/NA
Sulfate	1900	50	mg/L	50	9056A	Total/NA
Total Dissolved Solids	6900	100	mg/L	1	SM 2540C	Total/NA

#### **Client Sample ID: MW-106**

#### Lab Sample ID: 240-202632-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	610		100	ug/L	1	_	6010D	Total
								Recoverable
Calcium	610000		1000	ug/L	1		6020B	Total
								Recoverable
Iron	1000		100	ug/L	1		6020B	Total
								Recoverable
Chloride	110		2.0	mg/L	2		9056A	Total/NA
Fluoride	1.6		0.10	mg/L	2		9056A	Total/NA
Sulfate	1900		20	mg/L	20		9056A	Total/NA
Total Dissolved Solids	3000		20	mg/L	1		SM 2540C	Total/NA

#### Client Sample ID: MW-107

#### Lab Sample ID: 240-202632-7

Analyte	Result Qualifier	r RL	Unit	Dil Fac	D Method	Prep Type
Boron	1300	100	ug/L	1	6010D	Total
						Recoverable
Calcium	1400000	10000	ug/L	10	6020B	Total
						Recoverable
Iron	570	100	ug/L	1	6020B	Total
						Recoverable
Chloride	19000	250	mg/L	250	9056A	Total/NA
Fluoride	1.6	1.3	mg/L	25	9056A	Total/NA
Sulfate	3300	25	mg/L	25	9056A	Total/NA
Total Dissolved Solids	35000	1000	mg/L	1	SM 2540C	Total/NA

#### Client Sample ID: MW-108A

#### Lab Sample ID: 240-202632-8

Analyte	Result Quali	fier RL	Unit	Dil Fac	D Method	Prep Type
Boron	1100	100	ug/L	1	6010D	Total
						Recoverable
Calcium	440000	1000	ug/L	1	6020B	Total
						Recoverable
Iron	670	100	ug/L	1	6020B	Total
						Recoverable
Chloride	1600	25	mg/L	25	9056A	Total/NA
Fluoride	0.90	0.25	mg/L	5	9056A	Total/NA
Sulfate	1100	25	mg/L	25	9056A	Total/NA
Total Dissolved Solids	4000	50	mg/L	1	SM 2540C	Total/NA

#### Client Sample ID: QUARRY SUMP

#### Lab Sample ID: 240-202632-9

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Boron	2400	100	ug/L		6010D	Total
						Recoverable

This Detection Summary does not include radiochemical test results.

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## **Detection Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

## Client Sample ID: QUARRY SUMP (Continued)

#### Lab Sample ID: 240-202632-9

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Calcium	770000	1000	ug/L		6020B	Total
						Recoverable
Iron	350	100	ug/L	1	6020B	Total
						Recoverable
Chloride	3500	50	mg/L	50	9056A	Total/NA
Fluoride	1.3	0.25	mg/L	5	9056A	Total/NA
Sulfate	2000	50	mg/L	50	9056A	Total/NA
Total Dissolved Solids	7400	100	mg/L	1	SM 2540C	Total/NA

#### **Client Sample ID: QUARRY DISCHARGE**

#### Lab Sample ID: 240-202632-10

Analyte	Result	Qualifier F	RL	Unit	Dil Fac	D Method	Prep Type
Boron	2300	1	00	ug/L		6010D	Total
							Recoverable
Calcium	780000	10	00	ug/L	1	6020B	Total
							Recoverable
Iron	310	1	00	ug/L	1	6020B	Total
							Recoverable
Chloride	3800		50	mg/L	50	9056A	Total/NA
Fluoride	1.3	0.	25	mg/L	5	9056A	Total/NA
Sulfate	2200		50	mg/L	50	9056A	Total/NA
Total Dissolved Solids	8100	1	00	mg/L	1	SM 2540C	Total/NA

#### **Client Sample ID: DUP-01**

## Lab Sample ID: 240-202632-11

Analyte	Result Quali	ifier RL	Unit	Dil Fac	D Method	Prep Type
Boron	1800	100	ug/L	1	6010D	Total
						Recoverable
Calcium	690000	1000	ug/L	1	6020B	Total
						Recoverable
Iron	1800	100	ug/L	1	6020B	Total
						Recoverable
Chloride	3100	50	mg/L	50	9056A	Total/NA
Fluoride	0.93	0.25	mg/L	5	9056A	Total/NA
Sulfate	1900	50	mg/L	50	9056A	Total/NA
Total Dissolved Solids	6800	100	mg/L	1	SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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Client: TRC Environmental Corporation. Job ID: 240-202632-1 Project/Site: CCR DTE Sibley Quarry

**Client Sample ID: MW-101** Lab Sample ID: 240-202632-1

Date Collected: 04/08/24 10:50 **Matrix: Water** Date Received: 04/11/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	320		100	ug/L		04/11/24 14:00	04/12/24 18:27	1
Method: SW846 6020B - Me	tals (ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	220000		1000	ug/L		04/11/24 14:00	04/12/24 20:11	1
Iron	110		100	ug/L		04/11/24 14:00	04/12/24 20:11	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	290		10	mg/L			04/16/24 03:31	10
Fluoride (SW846 9056A)	1.8		0.050	mg/L			04/16/24 03:10	1
Sulfate (SW846 9056A)	540		10	mg/L			04/16/24 03:31	10

20

1400

mg/L

Total Dissolved Solids (SM 2540C)

04/12/24 09:36

Client: TRC Environmental Corporation. Job ID: 240-202632-1 Project/Site: CCR DTE Sibley Quarry

Lab Sample ID: 240-202632-2 Client Sample ID: MW-102

Date Collected: 04/08/24 12:05 **Matrix: Water** Date Received: 04/11/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	120		100	ug/L		04/11/24 14:00	04/12/24 18:48	1
Method: SW846 602	0B - Metals (ICP/MS) -	Total Reco	verable					
	•		verable RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Total Reco	RL	Unit	<u>D</u>	Prepared 04/11/24 14:00	Analyzed	Dil Fac
	•			Unit ug/L	<u>D</u>			Dil Fac

General Chemistry							
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	200	1.0	mg/L			04/16/24 03:53	1
Fluoride (SW846 9056A)	1.5	0.050	mg/L			04/16/24 03:53	1
Sulfate (SW846 9056A)	490	10	mg/L			04/16/24 04:15	10
Total Dissolved Solids (SM 2540C)	1300	20	mg/L			04/12/24 09:36	1

Client: TRC Environmental Corporation. Job ID: 240-202632-1 Project/Site: CCR DTE Sibley Quarry

**Client Sample ID: MW-103** 

Lab Sample ID: 240-202632-3 Date Collected: 04/08/24 13:38 **Matrix: Water** 

Date Received: 04/11/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	650		100	ug/L		04/11/24 14:00	04/12/24 18:52	1
Method: SW846 6020B - Metals	(ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	610000		1000	ug/L		04/11/24 14:00	04/12/24 20:38	1
Iron	100	U	100	ug/L		04/11/24 14:00	04/12/24 20:38	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	150		2.0	mg/L			04/16/24 11:51	2
Fluoride (SW846 9056A)	1.7		0.10	mg/L			04/16/24 11:51	2
Sulfate (SW846 9056A)	1900		20	mg/L			04/16/24 12:13	20
Total Dissolved Solids (SM 2540C)	3100		40	mg/L			04/12/24 09:32	1

Client: TRC Environmental Corporation.

Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

Client Sample ID: MW-104 Lab Sample ID: 240-202632-4

Date Collected: 04/09/24 10:17

Date Received: 04/11/24 08:00

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	630		100	ug/L		04/11/24 14:00	04/12/24 19:05	1
Method: SW846 6020B - Metals	(ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500000		1000	ug/L		04/11/24 14:00	04/12/24 20:43	1
Iron	110		100	ug/L		04/11/24 14:00	04/12/24 20:43	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	220		2.0	mg/L			04/16/24 12:35	2
Fluoride (SW846 9056A)	1.6		0.10	mg/L			04/16/24 12:35	2
Sulfate (SW846 9056A)	1600		20	mg/L			04/16/24 12:56	20
Total Dissolved Solids (SM 2540C)	2900		40	mg/L			04/12/24 09:32	1

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Client: TRC Environmental Corporation. Job ID: 240-202632-1 Project/Site: CCR DTE Sibley Quarry

**Client Sample ID: MW-105** Lab Sample ID: 240-202632-5

Date Collected: 04/08/24 09:44 **Matrix: Water** Date Received: 04/11/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1900		100	ug/L		04/11/24 14:00	04/12/24 19:09	1
Method: SW846 6020B - Metals	(ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	720000		1000	ug/L		04/11/24 14:00	04/12/24 20:56	1
lron	1900		100	ug/L		04/11/24 14:00	04/12/24 20:56	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	3100		50	mg/L			04/16/24 13:40	50
Fluoride (SW846 9056A)	0.95		0.25	mg/L			04/16/24 13:18	5
Sulfate (SW846 9056A)	1900		50	mg/L			04/16/24 13:40	50
Total Dissolved Solids (SM 2540C)	6900		100	mg/L			04/12/24 09:32	1

Client: TRC Environmental Corporation.

Job ID: 240-202632-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-106 Lab Sample ID: 240-202632-6

. Matrix: Water

Date Collected: 04/08/24 14:22 Date Received: 04/11/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	610		100	ug/L		04/11/24 14:00	04/12/24 19:14	1
Method: SW846 6020B - Metals	(ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	610000		1000	ug/L		04/11/24 14:00	04/12/24 21:01	1
Iron	1000		100	ug/L		04/11/24 14:00	04/12/24 21:01	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	110		2.0	mg/L			04/16/24 14:45	2
Fluoride (SW846 9056A)	1.6		0.10	mg/L			04/16/24 14:45	2
Sulfate (SW846 9056A)	1900		20	mg/L			04/16/24 15:07	20
Total Dissolved Solids (SM 2540C)	3000		20	mg/L			04/12/24 09:32	

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Client: TRC Environmental Corporation.

Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

Client Sample ID: MW-107 Lab Sample ID: 240-202632-7

Date Collected: 04/08/24 12:55

Matrix: Water

Date Received: 04/11/24 08:00

35000

Total Dissolved Solids (SM 2540C)

Method: SW846 6010D - Me	etals (ICP) - To	tal Recover	able					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1300		100	ug/L		04/11/24 14:00	04/12/24 19:18	1
- Method: SW846 6020B - Me	etals (ICP/MS)	- Total Reco	overable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1400000		10000	ug/L		04/11/24 14:00	04/15/24 13:17	10
Iron	570		100	ug/L		04/11/24 14:00	04/12/24 21:06	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	19000		250	mg/L			04/16/24 15:50	250
Fluoride (SW846 9056A)	1.6		1.3	mg/L			04/16/24 15:28	25
Sulfate (SW846 9056A)	3300		25	mg/L			04/16/24 15:28	25

1000

mg/L

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04/12/24 09:32

Client: TRC Environmental Corporation.

Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

Client Sample ID: MW-108A Lab Sample ID: 240-202632-8

. Matrix: Water

Date Collected: 04/09/24 08:30 Date Received: 04/11/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		04/11/24 14:00	04/12/24 19:23	1
Method: SW846 6020B - Metals	(ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	440000		1000	ug/L		04/11/24 14:00	04/12/24 21:10	1
Iron	670		100	ug/L		04/11/24 14:00	04/12/24 21:10	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	1600		25	mg/L			04/16/24 21:38	25
Fluoride (SW846 9056A)	0.90		0.25	mg/L			04/16/24 21:16	5
Sulfate (SW846 9056A)	1100		25	mg/L			04/16/24 21:38	25
Total Dissolved Solids (SM 2540C)	4000		50	mg/L			04/12/24 09:32	1

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Client: TRC Environmental Corporation. Job ID: 240-202632-1

Project/Site: CCR DTE Sibley Quarry

**Client Sample ID: QUARRY SUMP** 

Lab Sample ID: 240-202632-9 Date Collected: 04/09/24 09:10

**Matrix: Water** 

Date Received: 04/11/24 08:00

Method: SW846 6010D - Metals	(ICP) - Tot	tal Recovera	able					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2400		100	ug/L		04/11/24 14:00	04/12/24 19:27	1
Method: SW846 6020B - Metals	(ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	770000		1000	ug/L		04/11/24 14:00	04/12/24 21:15	1
Iron	350		100	ug/L		04/11/24 14:00	04/12/24 21:15	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	3500		50	mg/L			04/16/24 22:21	50
Fluoride (SW846 9056A)	1.3		0.25	mg/L			04/16/24 21:59	5
Sulfate (SW846 9056A)	2000		50	mg/L			04/16/24 22:21	50
Total Dissolved Solids (SM 2540C)	7400		100	mg/L			04/12/24 09:32	1

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Client: TRC Environmental Corporation. Job ID: 240-202632-1

Project/Site: CCR DTE Sibley Quarry

**Client Sample ID: QUARRY DISCHARGE** 

Date Collected: 04/09/24 09:40 Date Received: 04/11/24 08:00

Lab Sample ID: 240-202632-10

**Matrix: Water** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2300		100	ug/L		04/11/24 14:00	04/12/24 19:32	1
Method: SW846 6020B - Metals	(ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	780000		1000	ug/L		04/11/24 14:00	04/12/24 21:19	1
lron	310		100	ug/L		04/11/24 14:00	04/12/24 21:19	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	3800		50	mg/L			04/16/24 23:48	50
Fluoride (SW846 9056A)	1.3		0.25	mg/L			04/16/24 23:26	5
Sulfate (SW846 9056A)	2200		50	mg/L			04/16/24 23:48	50
Total Dissolved Solids (SM 2540C)	8100		100	mg/L			04/12/24 09:32	1

**Eurofins Cleveland** 

Client: TRC Environmental Corporation.

Job ID: 240-202632-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: DUP-01 Lab Sample ID: 240-202632-11

Date Collected: 04/08/24 00:00 Matrix: Water Date Received: 04/11/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1800		100	ug/L		04/11/24 14:00	04/12/24 19:36	1
Method: SW846 6020B - Metals	(ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	690000		1000	ug/L		04/11/24 14:00	04/12/24 21:24	1
lron	1800		100	ug/L		04/11/24 14:00	04/12/24 21:24	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	3100		50	mg/L			04/17/24 00:31	50
Fluoride (SW846 9056A)	0.93		0.25	mg/L			04/17/24 00:10	5
Sulfate (SW846 9056A)	1900		50	mg/L			04/17/24 00:31	50
Total Dissolved Solids (SM 2540C)	6800		100	mg/L			04/12/24 09:32	1

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Job ID: 240-202632-1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-609310/1-A

**Matrix: Water** 

Analyte

Analyte

Boron

Boron

Boron

Analysis Batch: 609434

Client Sample ID: Method Blank **Prep Type: Total Recoverable** Prep Batch: 609310

**Client Sample ID: Lab Control Sample** 

%Rec

Limits

80 - 120

MB MB Result Qualifier RL Unit D Analyzed Dil Fac Prepared 100 04/11/24 14:00 04/12/24 18:19 100 U ug/L

Lab Sample ID: LCS 240-609310/2-A

**Matrix: Water** 

**Analysis Batch: 609434** 

Spike Added 1000

Spike

1010

LCS LCS

MS MS

Result Qualifier

Unit ug/L

D %Rec 101

Client Sample ID: MW-101

**Prep Type: Total Recoverable** 

**Prep Type: Total Recoverable** 

**Prep Batch: 609310** 

Lab Sample ID: 240-202632-1 MS

**Matrix: Water** 

**Matrix: Water** 

**Analysis Batch: 609434** 

Analyte

Lab Sample ID: 240-202632-1 MSD

Sample Sample Result Qualifier 320

Added 1000

1310

Result Qualifier

Unit

ug/L

ug/L

Unit %Rec ug/L

75 - 125

%Rec

Limits

Client Sample ID: MW-101 **Prep Type: Total Recoverable** 

Prep Batch: 609310

Prep Batch: 609310

**Analysis Batch: 609434** Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 1000 1290 Boron 320 ug/L 75 - 125 20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-609310/1-A

**Matrix: Water** 

Analyte

Calcium

Analyte

Calcium

Analyte

Calcium

Iron

Iron

Iron

**Analysis Batch: 609546** 

MB MB

100 U

Result Qualifier 1000 U

Client Sample ID: Method Blank **Prep Type: Total Recoverable** Prep Batch: 609310

Prepared Analyzed Dil Fac 04/11/24 14:00 04/12/24 20:02 04/11/24 14:00 04/12/24 20:02

**Prep Type: Total Recoverable** 

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 240-609310/3-A

**Matrix: Water** 

**Analysis Batch: 609546** 

LCS LCS Spike Added 25000

5000

RL

1000

100

Result Qualifier 24000 5130

Unit ug/L ug/L

D %Rec 96 80 - 120103 80 - 120

%Rec Limits

Client Sample ID: MW-101

**Prep Type: Total Recoverable** 

Prep Batch: 609310

Lab Sample ID: 240-202632-1 MS

**Matrix: Water** 

**Analysis Batch: 609546** 

Sample Sample

Spike Result Qualifier Added 220000 25000 110 5000

MS MS Result Qualifier 241000 4 5210

Unit ug/L ug/L

D %Rec Limits 70 80 - 120 102 80 - 120

%Rec

Prep Batch: 609310

**Eurofins Cleveland** 

4/20/2024

Spike

Added

25000

5000

Client: TRC Environmental Corporation. Job ID: 240-202632-1 Project/Site: CCR DTE Sibley Quarry

MSD MSD

244000 4

5260

Result Qualifier

Unit

ug/L

ug/L

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

Lab Sample ID: 240-202632-1 MSD

**Matrix: Water** 

Analyte

Calcium

Iron

Analysis Batch: 609546

Client Sample ID: MW-101 **Prep Type: Total Recoverable** 

20

Prep Batch: 609310 %Rec **RPD** %Rec Limits RPD Limit 82 80 - 120 1 20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-609665/3

**Matrix: Water** 

**Analysis Batch: 609665** 

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

80 - 120

103

MB MB

Sample Sample

220000

110

Result Qualifier

**Analyte** Result Qualifier RL Unit D Prepared Analyzed Dil Fac 1.0 U Chloride 1.0 04/15/24 13:46 mg/L Fluoride 0.050 U 0.050 mg/L 04/15/24 13:46 1 Sulfate 1.0 U 1.0 mg/L 04/15/24 13:46

Lab Sample ID: LCS 240-609665/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 609665

Spike LCS LCS %Rec **Analyte** Added Result Qualifier Unit D %Rec Limits Chloride 50.0 50.2 mg/L 100 90 - 110 2.50 90 - 110 Fluoride 2 63 mg/L 105 Sulfate 50.0 103 51.6 mg/L 90 - 110

Lab Sample ID: MB 240-609688/3

**Matrix: Water** 

**Analysis Batch: 609688** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	mg/L			04/16/24 06:03	1
Fluoride	0.050	U	0.050	mg/L			04/16/24 06:03	1
Sulfate	1.0	U	1.0	mg/L			04/16/24 06:03	1

Lab Sample ID: LCS 240-609688/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 609688** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	50.3		mg/L		101	90 - 110	 
Fluoride	2.50	2.59		mg/L		103	90 - 110	
Sulfate	50.0	51.5		mg/L		103	90 - 110	

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

Lab Sample ID: MB 240-609397/1 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 609397** 

MB MB Result Qualifier Unit RL Prepared Analyzed Dil Fac Total Dissolved Solids 10 Ū 10 mg/L 04/12/24 09:32

**Eurofins Cleveland** 

4/20/2024

#### **QC Sample Results**

Client: TRC Environmental Corporation. Job ID: 240-202632-1 Project/Site: CCR DTE Sibley Quarry

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

Lab Sample ID: LCS 240-609397/2 **Client Sample ID: Lab Control Sample** 

**Matrix: Water** 

Analysis Batch: 609397

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits Analyte D Total Dissolved Solids 495 483 mg/L 98 80 - 120

Lab Sample ID: 240-202632-6 DU Client Sample ID: MW-106 Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 609397

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier Unit D RPD Limit **Total Dissolved Solids** 3000 2990 mg/L

Lab Sample ID: MB 240-609399/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 609399** 

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Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac Total Dissolved Solids 10 U 10 mg/L 04/12/24 09:36

Lab Sample ID: LCS 240-609399/2 **Client Sample ID: Lab Control Sample Prep Type: Total/NA** 

**Matrix: Water** 

**Analysis Batch: 609399** 

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

**Eurofins Cleveland** 

Prep Type: Total/NA

## **QC Association Summary**

Client: TRC Environmental Corporation.

Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

#### **Metals**

#### Prep Batch: 609310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-202632-1	MW-101	Total Recoverable	Water	3005A	_
240-202632-2	MW-102	Total Recoverable	Water	3005A	
240-202632-3	MW-103	Total Recoverable	Water	3005A	
240-202632-4	MW-104	Total Recoverable	Water	3005A	
240-202632-5	MW-105	Total Recoverable	Water	3005A	
240-202632-6	MW-106	Total Recoverable	Water	3005A	
240-202632-7	MW-107	Total Recoverable	Water	3005A	
240-202632-8	MW-108A	Total Recoverable	Water	3005A	
240-202632-9	QUARRY SUMP	Total Recoverable	Water	3005A	
240-202632-10	QUARRY DISCHARGE	Total Recoverable	Water	3005A	
240-202632-11	DUP-01	Total Recoverable	Water	3005A	
MB 240-609310/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-609310/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-609310/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-202632-1 MS	MW-101	Total Recoverable	Water	3005A	
240-202632-1 MS	MW-101	Total Recoverable	Water	3005A	
240-202632-1 MSD	MW-101	Total Recoverable	Water	3005A	
240-202632-1 MSD	MW-101	Total Recoverable	Water	3005A	

#### Analysis Batch: 609434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-202632-1	MW-101	Total Recoverable	Water	6010D	609310
240-202632-2	MW-102	Total Recoverable	Water	6010D	609310
240-202632-3	MW-103	Total Recoverable	Water	6010D	609310
240-202632-4	MW-104	Total Recoverable	Water	6010D	609310
240-202632-5	MW-105	Total Recoverable	Water	6010D	609310
240-202632-6	MW-106	Total Recoverable	Water	6010D	609310
240-202632-7	MW-107	Total Recoverable	Water	6010D	609310
240-202632-8	MW-108A	Total Recoverable	Water	6010D	609310
240-202632-9	QUARRY SUMP	Total Recoverable	Water	6010D	609310
240-202632-10	QUARRY DISCHARGE	Total Recoverable	Water	6010D	609310
240-202632-11	DUP-01	Total Recoverable	Water	6010D	609310
MB 240-609310/1-A	Method Blank	Total Recoverable	Water	6010D	609310
LCS 240-609310/2-A	Lab Control Sample	Total Recoverable	Water	6010D	609310
240-202632-1 MS	MW-101	Total Recoverable	Water	6010D	609310
240-202632-1 MSD	MW-101	Total Recoverable	Water	6010D	609310

#### Analysis Batch: 609546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
240-202632-1	MW-101	Total Recoverable	Water	6020B	609310	
240-202632-2	MW-102	Total Recoverable	Water	6020B	609310	
240-202632-3	MW-103	Total Recoverable	Water	6020B	609310	
240-202632-4	MW-104	Total Recoverable	Water	6020B	609310	
240-202632-5	MW-105	Total Recoverable	Water	6020B	609310	
240-202632-6	MW-106	Total Recoverable	Water	6020B	609310	
240-202632-7	MW-107	Total Recoverable	Water	6020B	609310	
240-202632-8	MW-108A	Total Recoverable	Water	6020B	609310	
240-202632-9	QUARRY SUMP	Total Recoverable	Water	6020B	609310	
240-202632-10	QUARRY DISCHARGE	Total Recoverable	Water	6020B	609310	
240-202632-11	DUP-01	Total Recoverable	Water	6020B	609310	
MB 240-609310/1-A	Method Blank	Total Recoverable	Water	6020B	609310	

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## **QC Association Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

#### **Metals (Continued)**

#### **Analysis Batch: 609546 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-609310/3-A	Lab Control Sample	Total Recoverable	Water	6020B	609310
240-202632-1 MS	MW-101	Total Recoverable	Water	6020B	609310
240-202632-1 MSD	MW-101	Total Recoverable	Water	6020B	609310

#### **Analysis Batch: 609698**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-202632-7	MW-107	Total Recoverable	Water	6020B	609310

#### **General Chemistry**

#### Analysis Batch: 609397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-202632-3	MW-103	Total/NA	Water	SM 2540C	
240-202632-4	MW-104	Total/NA	Water	SM 2540C	
240-202632-5	MW-105	Total/NA	Water	SM 2540C	
240-202632-6	MW-106	Total/NA	Water	SM 2540C	
240-202632-7	MW-107	Total/NA	Water	SM 2540C	
240-202632-8	MW-108A	Total/NA	Water	SM 2540C	
240-202632-9	QUARRY SUMP	Total/NA	Water	SM 2540C	
240-202632-10	QUARRY DISCHARGE	Total/NA	Water	SM 2540C	
240-202632-11	DUP-01	Total/NA	Water	SM 2540C	
MB 240-609397/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-609397/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-202632-6 DU	MW-106	Total/NA	Water	SM 2540C	

#### **Analysis Batch: 609399**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-202632-1	MW-101	Total/NA	Water	SM 2540C	
240-202632-2	MW-102	Total/NA	Water	SM 2540C	
MB 240-609399/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-609399/2	Lab Control Sample	Total/NA	Water	SM 2540C	

#### **Analysis Batch: 609665**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-202632-1	MW-101	Total/NA	Water	9056A	
240-202632-1	MW-101	Total/NA	Water	9056A	
240-202632-2	MW-102	Total/NA	Water	9056A	
240-202632-2	MW-102	Total/NA	Water	9056A	
MB 240-609665/3	Method Blank	Total/NA	Water	9056A	
LCS 240-609665/4	Lab Control Sample	Total/NA	Water	9056A	

#### **Analysis Batch: 609688**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-202632-3	MW-103	Total/NA	Water	9056A	<u> </u>
240-202632-3	MW-103	Total/NA	Water	9056A	
240-202632-4	MW-104	Total/NA	Water	9056A	
240-202632-4	MW-104	Total/NA	Water	9056A	
240-202632-5	MW-105	Total/NA	Water	9056A	
240-202632-5	MW-105	Total/NA	Water	9056A	
240-202632-6	MW-106	Total/NA	Water	9056A	
240-202632-6	MW-106	Total/NA	Water	9056A	

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## **QC Association Summary**

Client: TRC Environmental Corporation.

Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

## **General Chemistry (Continued)**

#### **Analysis Batch: 609688 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
240-202632-7	MW-107	Total/NA	Water	9056A	- <del></del>	
240-202632-7	MW-107	Total/NA	Water	9056A		
240-202632-8	MW-108A	Total/NA	Water	9056A		
240-202632-8	MW-108A	Total/NA	Water	9056A		
240-202632-9	QUARRY SUMP	Total/NA	Water	9056A		
240-202632-9	QUARRY SUMP	Total/NA	Water	9056A		
240-202632-10	QUARRY DISCHARGE	Total/NA	Water	9056A		
240-202632-10	QUARRY DISCHARGE	Total/NA	Water	9056A		
240-202632-11	DUP-01	Total/NA	Water	9056A		
240-202632-11	DUP-01	Total/NA	Water	9056A		
MB 240-609688/3	Method Blank	Total/NA	Water	9056A		
LCS 240-609688/4	Lab Control Sample	Total/NA	Water	9056A		

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Job ID: 240-202632-1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-101

Date Collected: 04/08/24 10:50 Date Received: 04/11/24 08:00

Lab Sample ID: 240-202632-1

**Matrix: Water** 

**Matrix: Water** 

**Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 18:27
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 20:11
Total/NA	Analysis	9056A		1	609665	JWW	EET CLE	04/16/24 03:10
Total/NA	Analysis	9056A		10	609665	JWW	EET CLE	04/16/24 03:31
Total/NA	Analysis	SM 2540C		1	609399	MS	EET CLE	04/12/24 09:36

Lab Sample ID: 240-202632-2 Client Sample ID: MW-102 Date Collected: 04/08/24 12:05

Date Received: 04/11/24 08:00

Batch **Batch** Dilution Batch **Prepared Prep Type** Type Method Run **Factor** Number Analyst or Analyzed Lab Total Recoverable Prep 3005A 609310 BN EET CLE 04/11/24 14:00 6010D EET CLE 04/12/24 18:48 Total Recoverable Analysis 1 609434 KLC Total Recoverable Prep 3005A 609310 BN **EET CLE** 04/11/24 14:00 Total Recoverable 6020B Analysis 609546 AJC EET CLE 04/12/24 20:34 1 Total/NA Analysis 9056A 609665 JWW **EET CLE** 1 04/16/24 03:53 Total/NA Analysis 9056A 10 609665 JWW EET CLE 04/16/24 04:15 Total/NA Analysis SM 2540C 609399 MS EET CLE 04/12/24 09:36

Client Sample ID: MW-103 Lab Sample ID: 240-202632-3

Date Collected: 04/08/24 13:38 Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 18:52
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 20:38
Total/NA	Analysis	9056A		2	609688	JWW	EET CLE	04/16/24 11:51
Total/NA	Analysis	9056A		20	609688	JWW	EET CLE	04/16/24 12:13
Total/NA	Analysis	SM 2540C		1	609397	MS	EET CLE	04/12/24 09:32

Lab Sample ID: 240-202632-4 Client Sample ID: MW-104

Date Collected: 04/09/24 10:17 Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 19:05
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 20:43
Total/NA	Analysis	9056A		2	609688	JWW	EET CLE	04/16/24 12:35

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**Matrix: Water** 

#### **Lab Chronicle**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Lab Sample ID: 240-202632-4

**Matrix: Water** 

Job ID: 240-202632-1

Date Collected: 04/09/24 10:17 Date Received: 04/11/24 08:00

Client Sample ID: MW-104

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9056A		20	609688	JWW	EET CLE	04/16/24 12:56
Total/NA	Analysis	SM 2540C		1	609397	MS	EET CLE	04/12/24 09:32

Lab Sample ID: 240-202632-5 **Client Sample ID: MW-105** 

Date Collected: 04/08/24 09:44 **Matrix: Water** 

Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 19:09
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 20:56
Total/NA	Analysis	9056A		5	609688	JWW	EET CLE	04/16/24 13:18
Total/NA	Analysis	9056A		50	609688	JWW	EET CLE	04/16/24 13:40
Total/NA	Analysis	SM 2540C		1	609397	MS	EET CLE	04/12/24 09:32

Lab Sample ID: 240-202632-6 Client Sample ID: MW-106

Date Collected: 04/08/24 14:22 **Matrix: Water** 

Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 19:14
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 21:01
Total/NA	Analysis	9056A		2	609688	JWW	EET CLE	04/16/24 14:45
Total/NA	Analysis	9056A		20	609688	JWW	EET CLE	04/16/24 15:07
Total/NA	Analysis	SM 2540C		1	609397	MS	EET CLE	04/12/24 09:32

**Client Sample ID: MW-107** Lab Sample ID: 240-202632-7 Date Collected: 04/08/24 12:55

Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 19:18
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 21:06
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		10	609698	AJC	EET CLE	04/15/24 13:17
Total/NA	Analysis	9056A		25	609688	JWW	EET CLE	04/16/24 15:28
Total/NA	Analysis	9056A		250	609688	JWW	EET CLE	04/16/24 15:50
Total/NA	Analysis	SM 2540C		1	609397	MS	EET CLE	04/12/24 09:32

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**Matrix: Water** 

Job ID: 240-202632-1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-108A

Lab Sample ID: 240-202632-8

**Matrix: Water** 

Date Collected: 04/09/24 08:30 Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 19:23
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 21:10
Total/NA	Analysis	9056A		5	609688	JWW	EET CLE	04/16/24 21:16
Total/NA	Analysis	9056A		25	609688	JWW	EET CLE	04/16/24 21:38
Total/NA	Analysis	SM 2540C		1	609397	MS	EET CLE	04/12/24 09:32

Lab Sample ID: 240-202632-9 **Client Sample ID: QUARRY SUMP** 

Date Collected: 04/09/24 09:10 **Matrix: Water** 

Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 19:27
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 21:15
Total/NA	Analysis	9056A		5	609688	JWW	EET CLE	04/16/24 21:59
Total/NA	Analysis	9056A		50	609688	JWW	EET CLE	04/16/24 22:21
Total/NA	Analysis	SM 2540C		1	609397	MS	EET CLE	04/12/24 09:32

Client Sample ID: QUARRY DISCHARGE Lab Sample ID: 240-202632-10

Date Collected: 04/09/24 09:40 Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 19:32
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 21:19
Total/NA	Analysis	9056A		5	609688	JWW	EET CLE	04/16/24 23:26
Total/NA	Analysis	9056A		50	609688	JWW	EET CLE	04/16/24 23:48
Total/NA	Analysis	SM 2540C		1	609397	MS	EET CLE	04/12/24 09:32

**Client Sample ID: DUP-01** Lab Sample ID: 240-202632-11

Date Collected: 04/08/24 00:00 Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6010D		1	609434	KLC	EET CLE	04/12/24 19:36
Total Recoverable	Prep	3005A			609310	BN	EET CLE	04/11/24 14:00
Total Recoverable	Analysis	6020B		1	609546	AJC	EET CLE	04/12/24 21:24
Total/NA	Analysis	9056A		5	609688	JWW	EET CLE	04/17/24 00:10

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**Matrix: Water** 

**Matrix: Water** 

#### **Lab Chronicle**

Client: TRC Environmental Corporation. Job ID: 240-202632-1

Project/Site: CCR DTE Sibley Quarry

Lab Sample ID: 240-202632-11 **Client Sample ID: DUP-01** Date Collected: 04/08/24 00:00

**Matrix: Water** 

Date Received: 04/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9056A		50	609688	JWW	EET CLE	04/17/24 00:31
Total/NA	Analysis	SM 2540C		1	609397	MS	EET CLE	04/12/24 09:32

#### **Laboratory References:**

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

# **Accreditation/Certification Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-202632-1

# **Laboratory: Eurofins Cleveland**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

Eurofins Cleveland

#### **Eurofins Cleveland**

180 S. Van Buren Avenue

# **MICHIGAN** Chain of Custody Record

**MICHIGAN** 

eurofins

**Environment Testing** 

Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772 Rinehar Brooks, Kris M Carrier Tracking No(s): 240-119185-31882.1 Client Information Client Contact: State of Origin: Page: MI Jacob Krenz Kris.Brooks@et.eurofinsus.com Page 1 of Company: Job #: TRC Environmental Corporation. **Analysis Requested** Address: Preservation Codes: Due Date Requested: 1540 Eisenhower Place Strendord M - Hexane A - HCL N - None TAT Requested (days): B - NaOH O - AsNaO2 Ann Arbor C - Zn Acetate P - Na2O4S D - Nitric Acid State, Zip: Q - Na2SO3 E - NaHSO4 MI, 48108-7080 Compliance Project: A Yes A No R - Na2S2O3 F - MeOH S - H2SO4 G - Amchior T - TSP Dodecahydrate 313-971-7080(Tel) 313-971-9022(Fax) 199488 - 2023 H - Ascorbic Acid and U - Acetone l - Ice V - MCAA Pediom WS/MSD (Yes or No) 518728.0002-55 J - DI Water JKrenz@trccompanies.com Chloride, Fluoride W - pH 4-5 K - EDTA Project Name: Y - Trizma L - EDA CCR DTE Sibley Quarry 24016805 Z - other (specify) Other: SSOW#: Michigan Matrix Number Sample 3=solid. Type Sample (C=comp, Special Instructions/Note: Sample Identification Sample Date Time G=grab) A-Ak) Preservation Code: 0 MW-101 Water Cust MW-102 Water MW-103 Water MW-104 Water MW-105 Water MW-106 Water MW-107 Water MW-108A Water QUARRY SUMP Water QUARRY DISHCARGE Water DUP-01 Water Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Return To Client Disposal By Lab Archive For Months Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements: Method of Shipment: Empty Kit Relinquished by: Date: Time: Relinquished by: Company Received by: Date/Time: Relinquished by: Date/Time: Received by: 1242 Relinquished by: Received by: 800 1300 4/10/24 Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) Cond Other Remarks: Page 33 of 35 4/20/202 Δ Yes Δ No

FedEx. 1st Grd Exp UPS FAS Waypount Client Drop Off Eurofins Courier Other/	Cooler Received on 4-11-24 Opened on 4-11-24	Client // Cooler unpacked by		d Sample Receipt Form/Narrative	distribution of the control of the c
Receipt After-hours Drop-off Date/Time Storage Location / Eurofins Cooler # Foam Box Client Cooler Box Other	Storage Location Other	Storage Location Other	Eurofins Courier Othe Storage Location	Burofins Courier Other Other	Login # :  Storage Location Other
	Burofins Courier Storage Location	Eurofins Courier Storage Locatio	Burofins Courier Other	Burofins Courier Other	Login # :  Burofins Courier Othe Storage Location

Cooler temperature upon receipt IR GUN# COOLANT Wet Ice Ĥ Blue Ice \_°C) Observed Cooler Temp Dry Ice Water ☐ See Multiple Cooler Form None °C Corrected Cooler Temp 0 റ്

Ņ Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? No No 8 Yes X Z NΑ Tests that are not checked for pH by Receiving

Were tamper/custody seals intact and uncompromised? Yes No

Did custody papers accompany the sample(s)? Shippers' packing slip attached to the cooler(s)?

Were the custody papers relinquished & signed in the appropriate place?

Yes No

Oil and Grease TOC

VOAs

NA

76543 Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

9 Could all bottle labels (ID/Date/Time) be reconciled with the COC?

For each sample, does the COC specify preservatives (VN), # of containers (V) Sufficient quantity received to perform indicated analyses? Were correct bottle(s) used for the test(s) indicated? (N), and sample type of grab/comp(X/N) YES NO Yes No 8 Z

11 12 Are these work share samples and all listed on the COC?

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

Were all preserved sample(s) at the correct pH upon receipt?

43

15 16 17 Were VOAs on the COC? Were air bubbles >6 mm in any VOA vials?

Ϋ́es

Yes

X

Yes No

X

pH Strip Lo# HC329089

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Yes

Was a LL Hg or Me Hg trip blank present? Was a VOA trip blank present in the cooler(s)? Trip Blank Lot# Larger than this

Contacted PM Date Ŷ

via Verbal Voice Mail Other

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

18.

Concerning

Sample(s) Sample(s) SAMPLE CONDITION were received after the recommended holding time had expired were received in a broken container

19

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

Sample(s) \_\_\_\_\_ Time preserved VOA Sample Preservation Date/Time VOAs Frozen. Preservative(s) added/Lot number(s) were further preserved in the laboratory

4/11/2024

Temperature readings

# Login Container Summary Report

240-202632

4/20/2024

MW-105 MW 101 DUP-01 MW 107 MW-106 MW-103 MW-102 MW-101 DUP-01 DUP-01 QUARRY DISCHARGE QUARRY DISCHARGE QUARRY DISCHARGE QUARRY SUMP QUARRY SUMP **QUARRY SUMP** MW 108A MW-108A MW-108A MW-107 MW-107 MW 106 MW-106 MW-105 MW 105 MW-104 MW-104 MW-104 MW-103 MW-103 MW-102 MW-102 MW-101 Client Sample ID 240-202632-A-11 240-202632-C-10 Lab ID 240-202632-C-11 240-202632-B 11 240-202632-B-10 240 202632-A-10 240-202632-C-9 240-202632-B-9 240-202632-A-9 240-202632-C-8 240-202632 B-8 240-202632-A-8 240-202632-C-7 240 202632-B-7 240-202632-A 7 240-202632-C-6 240-202632-B-6 240-202632-B-5 240-202632-A-5 240-202632-C-4 240-202632-B-4 240-202632-A-4 240-202632-C-3 240-202632-B-3 240-202632-A-3 240 202632-C-2 240-202632-B-2 240-202632 A 2 240-202632-C-1 240 202632-B-1 240-202632-A-1 240-202632 A-6 240-202632-C-5 Plastic 500ml - with Nitric Acid Plastic 500ml - unpreserved Plastic 60 mL Plastic 500ml - with Nitric Acid Plastic 500ml Plastic 60 mL -Plastic 500ml Plastic 500ml - unpreserved Plastic 60 mL - unpreserved Plastic 500ml - with Nitric Acid Plastic 500ml Plastic 60 mL - unpreserved Plastic 500ml Plastic 500ml - unpreserved Plastic 60 mL - unpreserved Plastic 500ml - with Nitric Acid Plastic 500ml - unpreserved Plastic 60 mL - unpreserved Plastic 500ml - with Nitric Acid Plastic 500ml Plastic 60 mL - unpreserved Plastic 500ml - with Nitric Acid Plastic 500ml - unpreserved Plastic 60 mL - unpreserved Plastic 500ml - with Nitric Acid Plastic 500ml - unpreserved Plastic 60 mL - unpreserved Plastic 500ml - with Nitric Acid Plastic 500ml - unpreserved Plastic 60 mL - unpreserved Plastic 500ml - with Nitric Acid Plastic 500ml Plastic 60 mL - unpreserved Container Type with Nitric Acid unpreserved with Nitric Acid unpreserved unpreserved unpreserved unpreserved unpreserved ۵ ۵ ۵ ۵ ۵ ۵ ۵ Δ ۵ ۵ Container pH Temi Temp Added Preservation Preservation Lot Number

# JOB DESCRIPTION

PREPARED FOR

Attn: Mr. Vincent Buening

1540 Eisenhower Place

Generated 10/23/2024 7:58:38 PM

TRC Environmental Corporation.

Ann Arbor, Michigan 48108-7080

**CCR DTE Sibley Quarry** 

**ANALYTICAL REPORT** 

# **JOB NUMBER**

240-212734-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

# **Eurofins Cleveland**

#### **Job Notes**

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

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# Authorization

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

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#### **Definitions/Glossary**

Client: TRC Environmental Corporation. Job ID: 240-212734-1 Project/Site: CCR DTE Sibley Quarry

#### **Qualifiers**

M	eta	Is

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.

Indicates the analyte was analyzed for but not detected.

#### **General Chemistry**

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

Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		
DL	Detection Limit (DoD/DOE)		
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		
DLC	Decision Level Concentration (Radiochemistry)		

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) EPA recommended "Maximum Contaminant Level" MCL

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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) TFO Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

**Eurofins Cleveland** 

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#### **Case Narrative**

Client: TRC Environmental Corporation.

Job ID: 240-212734-1 Project: CCR DTE Sibley Quarry

**Eurofins Cleveland** Job ID: 240-212734-1

#### Job Narrative 240-212734-1

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

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

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

#### Receipt

The samples were received on 10/10/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

#### Metals

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

#### **General Chemistry**

Method 9056A\_28D: The following sample was diluted due to the nature of the sample matrix: MW-107 (240-212734-5). Elevated reporting limits (RLs) are provided.

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

**Eurofins Cleveland** 

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# **Method Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

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

#### Protocol References:

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

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

#### Laboratory References:

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

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# **Sample Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-212734-1	MW-108A	Water	10/07/24 09:30	10/10/24 08:00
240-212734-2	DUP-01	Water	10/07/24 00:00	10/10/24 08:00
240-212734-3	MW-104	Water	10/07/24 10:20	10/10/24 08:00
240-212734-4	MW-101	Water	10/07/24 11:08	10/10/24 08:00
240-212734-5	MW-107	Water	10/07/24 12:04	10/10/24 08:00
240-212734-6	MW-105	Water	10/07/24 12:51	10/10/24 08:00
240-212734-7	MW-103	Water	10/07/24 13:46	10/10/24 08:00
240-212734-8	MW-106	Water	10/08/24 07:45	10/10/24 08:00
240-212734-9	MW-102	Water	10/08/24 09:00	10/10/24 08:00
240-212734-10	QUARRY SUMP	Water	10/08/24 09:30	10/10/24 08:00
240-212734-11	QUARRY DISCHARGE	Water	10/08/24 09:40	10/10/24 08:00

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# **Detection Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-108A

Job ID: 240-212734-1

Lab Sample ID: 240-212734-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1200		100	ug/L	1	_	6010D	Total
								Recoverable
Calcium	390000		1000	ug/L	1		6020B	Total
								Recoverable
Iron	640		100	ug/L	1		6020B	Total
								Recoverable
Chloride	1700		20	mg/L	20		9056A	Total/NA
Fluoride	1.1		0.25	mg/L	5		9056A	Total/NA
Sulfate	1100		20	mg/L	20		9056A	Total/NA
Total Dissolved Solids	10000		50	mg/L	1		SM 2540C	Total/NA

**Client Sample ID: DUP-01** 

Lab	Cample	ID: 240 242724 2
Lab	Sample	ID: 240-212734-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Boron	1200		100	ug/L	1	6010D	Total
							Recoverable
Calcium	390000		1000	ug/L	1	6020B	Total
							Recoverable
Iron	660		100	ug/L	1	6020B	Total
							Recoverable
Chloride	1700		20	mg/L	20	9056A	Total/NA
Fluoride	1.1		0.25	mg/L	5	9056A	Total/NA
Sulfate	1100		20	mg/L	20	9056A	Total/NA
Total Dissolved Solids	4300		50	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-104

#### Lab Sample ID: 240-212734-3

Analyte	Result Qualifier	r RL	Unit	Dil Fac	D Method	Prep Type
Boron	710	100	ug/L	1	6010D	Total
						Recoverable
Calcium	460000	1000	ug/L	1	6020B	Total
						Recoverable
Iron	230	100	ug/L	1	6020B	Total
						Recoverable
Chloride	260	2.0	mg/L	2	9056A	Total/NA
Fluoride	2.0	0.10	mg/L	2	9056A	Total/NA
Sulfate	1800	10	mg/L	10	9056A	Total/NA
Total Dissolved Solids	2600	20	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-101

#### Lab Sample ID: 240-212734-4

Lab Sample ID: 240-212734-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	330		100	ug/L	1	_	6010D	Total
								Recoverable
Calcium	210000		1000	ug/L	1		6020B	Total
								Recoverable
Chloride	270		10	mg/L	10		9056A	Total/NA
Fluoride	1.9		0.050	mg/L	1		9056A	Total/NA
Sulfate	540		10	mg/L	10		9056A	Total/NA
Total Dissolved Solids	1300		20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-107

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Boron	1400	100	ug/L	1	6010D	Total
						Recoverable

This Detection Summary does not include radiochemical test results.

**Eurofins Cleveland** 

10/23/2024

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Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

Lab Sample ID: 240-212734-6

Client Sample ID: MW-107 (Continued) Lab Sample ID: 240-212734-5

Analyte	Result	Qualifier F	L Unit	Dil Fac	D Method	d Prep Type
Calcium	1400000	1000	0 ug/L	10	6020B	Total
						Recoverable
Iron	1600	10	0 ug/L	1	6020B	Total
						Recoverable
Chloride	24000	100	0 mg/L	1000	9056A	Total/NA
Sulfate	4000	10	0 mg/L	. 100	9056A	Total/NA
Total Dissolved Solids	38000	100	0 mg/L	. 1	SM 254	10C Total/NA

Client Sample ID: MW-105

Analyte	Result	Qualifier R	L Unit	Dil Fac	D Met	hod	Prep Type
Boron	2500	10	ug/L	1	601	0D	Total
							Recoverable
Calcium	680000	100	) ug/L	1	602	0B	Total
							Recoverable
Iron	2300	10	) ug/L	1	602	0B	Total

50

50

50

0.25

mg/L

mg/L

mg/L

mg/L

50

5

50

9056A

9056A

9056A

SM 2540C

Lab Sample ID: 240-212734-7

Client	Sample	ID:	MW-103

**Total Dissolved Solids** 

Chloride

Fluoride

Sulfate

Client Sample ID: MW-103

3500

2100

8100

1.2

Analyte	Result Q	ualifier RL	Unit	Dil Fac	D Method	Prep Type
Boron	730	100	ug/L	1	6010D	Total
						Recoverable
Calcium	570000	1000	ug/L	1	6020B	Total
						Recoverable
Chloride	150	2.0	mg/L	2	9056A	Total/NA
Fluoride	1.9	0.10	mg/L	2	9056A	Total/NA
Sulfate	2000	20	mg/L	20	9056A	Total/NA
Total Dissolved Solids	3000	20	mg/L	1	SM 2540C	Total/NA

Client Sample ID: MW-106

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	710		100	ug/L	1	_	6010D	Total
								Recoverable
Calcium	550000		1000	ug/L	1		6020B	Total
								Recoverable
Iron	560		100	ug/L	1		6020B	Total
								Recoverable
Chloride	100		2.0	mg/L	2		9056A	Total/NA
Fluoride	1.7		0.10	mg/L	2		9056A	Total/NA
Sulfate	1900		20	mg/L	20		9056A	Total/NA
Total Dissolved Solids	3000		20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-102

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type	
Boron	130		100	ug/L	1	_	6010D	Total	
								Recoverable	
Calcium	240000		1000	ug/L	1		6020B	Total	
								Recoverable	

This Detection Summary does not include radiochemical test results.

**Eurofins Cleveland** 

Total/NA

Recoverable

Total/NA

Total/NA

Total/NA

Total/NA

Lab Sample ID: 240-212734-8

# **Detection Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

Client Sample ID: MW-102 (Continued)

Lab Sample ID: 240-212734-9

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Iron	2600	100	ug/L		6020B	Total
						Recoverable
Chloride	180	1.0	mg/L	1	9056A	Total/NA
Fluoride	1.8	0.050	mg/L	1	9056A	Total/NA
Sulfate	600	10	mg/L	10	9056A	Total/NA
Total Dissolved Solids	1600	20	mg/L	1	SM 2540C	Total/NA

**Client Sample ID: QUARRY SUMP** 

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Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	2500		100	ug/L	1	_	6010D	Total
								Recoverable
Calcium	710000		1000	ug/L	1		6020B	Total
								Recoverable
Iron	140		100	ug/L	1		6020B	Total
								Recoverable
Chloride	3900		50	mg/L	50		9056A	Total/NA
Fluoride	1.5		0.25	mg/L	5		9056A	Total/NA
Sulfate	2200		50	mg/L	50		9056A	Total/NA
Total Dissolved Solids	9100		50	mg/L	1		SM 2540C	Total/NA

**Client Sample ID: QUARRY DISCHARGE** 

#### Lab Sample ID: 240-212734-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D I	Method	Prep Type
Boron	2600		100	ug/L	1	_ (	6010D	Total
								Recoverable
Calcium	730000		1000	ug/L	1	6	6020B	Total
								Recoverable
Iron	120		100	ug/L	1	6	6020B	Total
								Recoverable
Chloride	3600		50	mg/L	50	(	9056A	Total/NA
Fluoride	1.5		0.25	mg/L	5	ç	9056A	Total/NA
Sulfate	2200		50	mg/L	50	ç	9056A	Total/NA
Total Dissolved Solids	8400		50	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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Client: TRC Environmental Corporation. Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-108A Lab Sample ID: 240-212734-1 Date Collected: 10/07/24 09:30

**Matrix: Water** 

Date Received: 10/10/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1200		100	ug/L		10/11/24 14:00	10/15/24 05:18	1
Method: SW846 6020B - Metals (ICI	P/MS) - Total	l Recoverable						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390000		1000	ug/L		10/11/24 14:00	10/14/24 15:34	1
Iron	640		100	ug/L		10/11/24 14:00	10/14/24 15:34	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	1700		20	mg/L			10/18/24 18:11	20
Fluoride (SW846 9056A)	1.1		0.25	mg/L			10/18/24 17:52	5
Sulfate (SW846 9056A)	1100		20	mg/L			10/18/24 18:11	20
Total Dissolved Solids (SM 2540C)	10000		50	mg/L			10/11/24 08:07	1

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Client: TRC Environmental Corporation.

Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: DUP-01 Lab Sample ID: 240-212734-2

Matrix: Water

Date Collected: 10/07/24 00:00 Date Received: 10/10/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1200		100	ug/L		10/11/24 14:00	10/15/24 05:23	1
Method: SW846 6020B - Metals (ICI	P/MS) - Total	Recoverable						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390000		1000	ug/L		10/11/24 14:00	10/14/24 15:48	1
Iron	660		100	ug/L		10/11/24 14:00	10/14/24 15:48	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	1700		20	mg/L			10/18/24 18:51	20
Fluoride (SW846 9056A)	1.1		0.25	mg/L			10/18/24 18:31	5
Sulfate (SW846 9056A)	1100		20	mg/L			10/18/24 18:51	20
Total Dissolved Solids (SM 2540C)	4300		50	mg/L			10/11/24 08:07	1

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Client: TRC Environmental Corporation.

Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-104 Lab Sample ID: 240-212734-3

Matrix: Water

Date Collected: 10/07/24 10:20 Date Received: 10/10/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	710		100	ug/L		10/11/24 14:00	10/15/24 05:27	1
Method: SW846 6020B - Metals (IC	P/MS) - Total	Recoverable						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	460000		1000	ug/L		10/11/24 14:00	10/14/24 15:51	1
Iron	230		100	ug/L		10/11/24 14:00	10/14/24 15:51	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	260		2.0	mg/L			10/18/24 19:11	2
Fluoride (SW846 9056A)	2.0		0.10	mg/L			10/18/24 19:11	2
Sulfate (SW846 9056A)	1800		10	mg/L			10/18/24 20:10	10
Total Dissolved Solids (SM 2540C)	2600		20	mg/L			10/11/24 08:07	1

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Client: TRC Environmental Corporation. Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-101 Lab Sample ID: 240-212734-4

Matrix: Water

Date Collected: 10/07/24 11:08 Date Received: 10/10/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	330		100	ug/L		10/11/24 14:00	10/15/24 05:31	1
Method: SW846 6020B - Metals (IC	P/MS) - Total	Recoverable	<b>)</b>					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210000		1000	ug/L		10/11/24 14:00	10/14/24 15:59	1
Iron	100	U	100	ug/L		10/11/24 14:00	10/14/24 15:59	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	270		10	mg/L			10/18/24 20:49	10
Fluoride (SW846 9056A)	1.9		0.050	mg/L			10/18/24 20:30	1
Sulfate (SW846 9056A)	540		10	mg/L			10/18/24 20:49	10
Total Dissolved Solids (SM 2540C)	1300		20	mg/L			10/11/24 08:07	

Client: TRC Environmental Corporation.

Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-107 Lab Sample ID: 240-212734-5

Matrix: Water

Date Collected: 10/07/24 12:04 Date Received: 10/10/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1400		100	ug/L		10/11/24 14:00	10/15/24 05:44	1
Method: SW846 6020B - Metals (IC	P/MS) - Total	Recoverable	<b>)</b>					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1400000		10000	ug/L		10/11/24 14:00	10/23/24 09:38	10
Iron	1600		100	ug/L		10/11/24 14:00	10/14/24 16:02	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	24000		1000	mg/L			10/18/24 21:29	1000
Fluoride (SW846 9056A)	5.0	U	5.0	mg/L			10/18/24 21:09	100
Sulfate (SW846 9056A)	4000		100	mg/L			10/18/24 21:09	100
Total Dissolved Solids (SM 2540C)	38000		1000	mg/L			10/11/24 08:07	1

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Client: TRC Environmental Corporation.

Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-105 Lab Sample ID: 240-212734-6

Matrix: Water

Date Collected: 10/07/24 12:51 Date Received: 10/10/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2500		100	ug/L		10/11/24 14:00	10/15/24 05:48	1
Method: SW846 6020B - Metals (IC	P/MS) - Total	Recoverable						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	680000		1000	ug/L		10/11/24 14:00	10/14/24 16:05	1
Iron	2300		100	ug/L		10/11/24 14:00	10/14/24 16:05	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	3500		50	mg/L			10/18/24 22:08	50
Fluoride (SW846 9056A)	1.2		0.25	mg/L			10/18/24 21:48	5
Sulfate (SW846 9056A)	2100		50	mg/L			10/18/24 22:08	50
Total Dissolved Solids (SM 2540C)	8100		50	mg/L			10/11/24 08:07	1

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Client: TRC Environmental Corporation. Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

Date Received: 10/10/24 08:00

**Client Sample ID: MW-103** Lab Sample ID: 240-212734-7 Date Collected: 10/07/24 13:46

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	730		100	ug/L		10/11/24 14:00	10/15/24 05:53	1
Method: SW846 6020B - Metals (IC	P/MS) - Total	Recoverable						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	570000		1000	ug/L		10/11/24 14:00	10/14/24 16:07	1
lron	100	U	100	ug/L		10/11/24 14:00	10/14/24 16:07	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	150		2.0	mg/L			10/18/24 22:28	2
Fluoride (SW846 9056A)	1.9		0.10	mg/L			10/18/24 22:28	2
Sulfate (SW846 9056A)	2000		20	mg/L			10/22/24 22:25	20
Total Dissolved Solids (SM 2540C)	3000		20	mg/L			10/11/24 08:07	1

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Client: TRC Environmental Corporation.

Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-106 Lab Sample ID: 240-212734-8

Matrix: Water

Date Collected: 10/08/24 07:45 Date Received: 10/10/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	710		100	ug/L		10/11/24 14:00	10/15/24 05:57	1
Method: SW846 6020B - Metals (IC	P/MS) - Total	Recoverable						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	550000		1000	ug/L		10/11/24 14:00	10/14/24 16:10	1
Iron	560		100	ug/L		10/11/24 14:00	10/14/24 16:10	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	100		2.0	mg/L			10/16/24 00:39	2
Fluoride (SW846 9056A)	1.7		0.10	mg/L			10/16/24 00:39	2
Sulfate (SW846 9056A)	1900		20	mg/L			10/16/24 00:58	20
Total Dissolved Solids (SM 2540C)	3000		20	mg/L			10/11/24 08:07	1

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Client: TRC Environmental Corporation.

Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-102 Lab Sample ID: 240-212734-9

Date Collected: 10/08/24 09:00 Matrix: Water
Date Received: 10/10/24 08:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	130		100	ug/L		10/11/24 14:00	10/15/24 06:02	
- Method: SW846 6020B - Metals (IC	P/MS) - Total	Recoverable	<b>)</b>					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	240000		1000	ug/L		10/11/24 14:00	10/14/24 16:13	
Iron	2600		100	ug/L		10/11/24 14:00	10/14/24 16:13	
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	180		1.0	mg/L			10/16/24 01:18	
Fluoride (SW846 9056A)	1.8		0.050	mg/L			10/16/24 01:18	•
Sulfate (SW846 9056A)	600		10	mg/L			10/16/24 01:38	10
Total Dissolved Solids (SM 2540C)	1600		20	mg/L			10/11/24 08:07	

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Client: TRC Environmental Corporation. Job ID: 240-212734-1 Project/Site: CCR DTE Sibley Quarry

**Client Sample ID: QUARRY SUMP** 

Date Received: 10/10/24 08:00

Lab Sample ID: 240-212734-10 Date Collected: 10/08/24 09:30

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2500		100	ug/L		10/11/24 14:00	10/15/24 06:06	1
Method: SW846 6020B - Metals (IC	P/MS) - Total	Recoverable						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	710000		1000	ug/L		10/11/24 14:00	10/14/24 16:16	1
Iron	140		100	ug/L		10/11/24 14:00	10/14/24 16:16	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	3900		50	mg/L			10/16/24 02:57	50
Fluoride (SW846 9056A)	1.5		0.25	mg/L			10/16/24 01:58	5
Sulfate (SW846 9056A)	2200		50	mg/L			10/16/24 02:57	50
Total Dissolved Solids (SM 2540C)	9100		50	mg/L			10/11/24 08:07	1

Client: TRC Environmental Corporation.

Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

**Client Sample ID: QUARRY DISCHARGE** 

Date Collected: 10/08/24 09:40 Date Received: 10/10/24 08:00 Lab Sample ID: 240-212734-11

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2600		100	ug/L		10/11/24 14:00	10/15/24 06:11	1
Method: SW846 6020B - Metals (IC	P/MS) - Total	l Recoverable						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	730000		1000	ug/L		10/11/24 14:00	10/14/24 16:19	1
iron	120		100	ug/L		10/11/24 14:00	10/14/24 16:19	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	3600		50	mg/L			10/16/24 03:36	50
Fluoride (SW846 9056A)	1.5		0.25	mg/L			10/16/24 03:16	5
Sulfate (SW846 9056A)	2200		50	mg/L			10/16/24 03:36	50
Total Dissolved Solids (SM 2540C)	8400		50	mg/L			10/11/24 08:07	1

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Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630492/1-A

**Matrix: Water** 

Analysis Batch: 630781

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

Prep Batch: 630492

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Boron 100 U 100 ug/L 10/11/24 14:00 10/15/24 04:36

Lab Sample ID: LCS 240-630492/2-A Client Sample ID: Lab Control Sample

**Matrix: Water** 

Analysis Batch: 630781

**Prep Type: Total Recoverable** 

**Prep Batch: 630492** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Boron 1000 1040 ug/L 104 80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-630492/1-A Client Sample ID: Method Blank

**Matrix: Water** 

**Analysis Batch: 630799** 

MB MB

**Prep Type: Total Recoverable** 

**Prep Batch: 630492** 

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Calcium 1000 U 1000 ug/L 10/11/24 14:00 10/14/24 15:28 Iron 100 U 100 ug/L 10/11/24 14:00 10/14/24 15:28

Lab Sample ID: LCS 240-630492/3-A

**Matrix: Water** 

Analysis Batch: 630799

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

**Prep Batch: 630492** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	25000	25000		ug/L		100	80 - 120	
Iron	5000	5050		ug/L		101	80 - 120	

Lab Sample ID: 240-212734-1 MS

**Matrix: Water** 

Analysis Batch: 630799

Client Sample ID: MW-108A **Prep Type: Total Recoverable** 

Prep Batch: 630492

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Calcium 390000 25000 409000 4 ug/L 60 80 - 120 Iron 640 5000 5750 ug/L 102 80 - 120

Lab Sample ID: 240-212734-1 MSD

**Matrix: Water** 

Analysis Batch: 630799

Client Sample ID: MW-108A **Prep Type: Total Recoverable** 

Prep Batch: 630492

Analysis Baton, coorse										Dutoii. 0	00402	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Calcium	390000		25000	414000	4	ug/L		80	80 - 120	1	20	
Iron	640		5000	5820		ug/L		104	80 - 120	1	20	

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10/23/2024

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-630745/3

Client Sample ID: Method Blank

**Matrix: Water** Prep Type: Total/NA

Analysis Batch: 630745

	MR	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	mg/L			10/15/24 15:06	1
Fluoride	0.050	U	0.050	mg/L			10/15/24 15:06	1
Sulfate	1.0	U	1.0	mg/L			10/15/24 15:06	1

Lab Sample ID: LCS 240-630745/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 630745

Spike LCS LCS %Rec Analyte Added %Rec Result Qualifier Unit Limits Chloride 50.0 50.3 mg/L 101 90 - 110 Fluoride 2.50 2.64 mg/L 106 90 - 110 Sulfate 50.0 52.1 mg/L 104 90 - 110

Lab Sample ID: MB 240-631516/3 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 631516

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	mg/L			10/18/24 16:13	1
Fluoride	0.050	U	0.050	mg/L			10/18/24 16:13	1
Sulfate	1.0	U	1.0	mg/L			10/18/24 16:13	1

Lab Sample ID: LCS 240-631516/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 631516

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	50.0	50.9		mg/L		102	90 - 110		_
Fluoride	2.50	2.65		mg/L		106	90 - 110		
Sulfate	50.0	53.0		mg/L		106	90 - 110		

Lab Sample ID: MB 240-631953/3 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 631953

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	mg/L			10/22/24 21:51	1

Lab Sample ID: LCS 240-631953/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 631953

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Sulfate	50.0	49.5		mg/L	 _	99	90 - 110	

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#### **QC Sample Results**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

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

Lab Sample ID: MB 240-630381/1 Client Sample ID: Method Blank

**Matrix: Water** Analysis Batch: 630381

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed

Total Dissolved Solids 10 U 10 mg/L 10/11/24 08:07

Lab Sample ID: LCS 240-630381/2 **Client Sample ID: Lab Control Sample** 

**Matrix: Water** Prep Type: Total/NA Analysis Batch: 630381

Spike LCS LCS %Rec

Added Analyte Result Qualifier Unit D %Rec Limits **Total Dissolved Solids** 721 596 mg/L 83 80 - 120

Lab Sample ID: 240-212734-9 DU Client Sample ID: MW-102

**Matrix: Water** Prep Type: Total/NA

Analysis Batch: 630381 DU DU RPD Sample Sample

Result Qualifier Result Qualifier Unit Limit Total Dissolved Solids 1600 1580 20 mg/L

Prep Type: Total/NA

Dil Fac

# **QC Association Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Metals

**Prep Batch: 630492** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-212734-1	MW-108A	Total Recoverable	Water	3005A	
240-212734-2	DUP-01	Total Recoverable	Water	3005A	
240-212734-3	MW-104	Total Recoverable	Water	3005A	
240-212734-4	MW-101	Total Recoverable	Water	3005A	
240-212734-5	MW-107	Total Recoverable	Water	3005A	
240-212734-6	MW-105	Total Recoverable	Water	3005A	
240-212734-7	MW-103	Total Recoverable	Water	3005A	
240-212734-8	MW-106	Total Recoverable	Water	3005A	
240-212734-9	MW-102	Total Recoverable	Water	3005A	
240-212734-10	QUARRY SUMP	Total Recoverable	Water	3005A	
240-212734-11	QUARRY DISCHARGE	Total Recoverable	Water	3005A	
MB 240-630492/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-630492/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-630492/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-212734-1 MS	MW-108A	Total Recoverable	Water	3005A	
240-212734-1 MSD	MW-108A	Total Recoverable	Water	3005A	

Analysis Batch: 630781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-212734-1	MW-108A	Total Recoverable	Water	6010D	630492
240-212734-2	DUP-01	Total Recoverable	Water	6010D	630492
240-212734-3	MW-104	Total Recoverable	Water	6010D	630492
240-212734-4	MW-101	Total Recoverable	Water	6010D	630492
240-212734-5	MW-107	Total Recoverable	Water	6010D	630492
240-212734-6	MW-105	Total Recoverable	Water	6010D	630492
240-212734-7	MW-103	Total Recoverable	Water	6010D	630492
240-212734-8	MW-106	Total Recoverable	Water	6010D	630492
240-212734-9	MW-102	Total Recoverable	Water	6010D	630492
240-212734-10	QUARRY SUMP	Total Recoverable	Water	6010D	630492
240-212734-11	QUARRY DISCHARGE	Total Recoverable	Water	6010D	630492
MB 240-630492/1-A	Method Blank	Total Recoverable	Water	6010D	630492
LCS 240-630492/2-A	Lab Control Sample	Total Recoverable	Water	6010D	630492

Analysis Batch: 630799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-212734-1	MW-108A	Total Recoverable	Water	6020B	630492
240-212734-2	DUP-01	Total Recoverable	Water	6020B	630492
240-212734-3	MW-104	Total Recoverable	Water	6020B	630492
240-212734-4	MW-101	Total Recoverable	Water	6020B	630492
240-212734-5	MW-107	Total Recoverable	Water	6020B	630492
240-212734-6	MW-105	Total Recoverable	Water	6020B	630492
240-212734-7	MW-103	Total Recoverable	Water	6020B	630492
240-212734-8	MW-106	Total Recoverable	Water	6020B	630492
240-212734-9	MW-102	Total Recoverable	Water	6020B	630492
240-212734-10	QUARRY SUMP	Total Recoverable	Water	6020B	630492
240-212734-11	QUARRY DISCHARGE	Total Recoverable	Water	6020B	630492
MB 240-630492/1-A	Method Blank	Total Recoverable	Water	6020B	630492
CS 240-630492/3-A	Lab Control Sample	Total Recoverable	Water	6020B	630492
240-212734-1 MS	MW-108A	Total Recoverable	Water	6020B	630492
240-212734-1 MSD	MW-108A	Total Recoverable	Water	6020B	630492

Job ID: 240-212734-1

# **QC Association Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

#### **Metals**

Analysis Batch: 632139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-212734-5	MW-107	Total Recoverable	Water	6020B	630492

#### **General Chemistry**

#### Analysis Batch: 630381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
240-212734-1	MW-108A	Total/NA	Water	SM 2540C	_
240-212734-2	DUP-01	Total/NA	Water	SM 2540C	
240-212734-3	MW-104	Total/NA	Water	SM 2540C	
240-212734-4	MW-101	Total/NA	Water	SM 2540C	
240-212734-5	MW-107	Total/NA	Water	SM 2540C	
240-212734-6	MW-105	Total/NA	Water	SM 2540C	
240-212734-7	MW-103	Total/NA	Water	SM 2540C	
240-212734-8	MW-106	Total/NA	Water	SM 2540C	
240-212734-9	MW-102	Total/NA	Water	SM 2540C	
240-212734-10	QUARRY SUMP	Total/NA	Water	SM 2540C	
240-212734-11	QUARRY DISCHARGE	Total/NA	Water	SM 2540C	
MB 240-630381/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-630381/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-212734-9 DU	MW-102	Total/NA	Water	SM 2540C	

#### Analysis Batch: 630745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-212734-8	MW-106	Total/NA	Water	9056A	
240-212734-8	MW-106	Total/NA	Water	9056A	
240-212734-9	MW-102	Total/NA	Water	9056A	
240-212734-9	MW-102	Total/NA	Water	9056A	
240-212734-10	QUARRY SUMP	Total/NA	Water	9056A	
240-212734-10	QUARRY SUMP	Total/NA	Water	9056A	
240-212734-11	QUARRY DISCHARGE	Total/NA	Water	9056A	
240-212734-11	QUARRY DISCHARGE	Total/NA	Water	9056A	
MB 240-630745/3	Method Blank	Total/NA	Water	9056A	
LCS 240-630745/4	Lab Control Sample	Total/NA	Water	9056A	

#### Analysis Batch: 631516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-212734-1	MW-108A	Total/NA	Water	9056A	
240-212734-1	MW-108A	Total/NA	Water	9056A	
240-212734-2	DUP-01	Total/NA	Water	9056A	
240-212734-2	DUP-01	Total/NA	Water	9056A	
240-212734-3	MW-104	Total/NA	Water	9056A	
240-212734-3	MW-104	Total/NA	Water	9056A	
240-212734-4	MW-101	Total/NA	Water	9056A	
240-212734-4	MW-101	Total/NA	Water	9056A	
240-212734-5	MW-107	Total/NA	Water	9056A	
240-212734-5	MW-107	Total/NA	Water	9056A	
240-212734-6	MW-105	Total/NA	Water	9056A	
240-212734-6	MW-105	Total/NA	Water	9056A	
240-212734-7	MW-103	Total/NA	Water	9056A	
MB 240-631516/3	Method Blank	Total/NA	Water	9056A	
LCS 240-631516/4	Lab Control Sample	Total/NA	Water	9056A	

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# **QC Association Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

### **General Chemistry**

#### Analysis Batch: 631953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-212734-7	MW-103	Total/NA	Water	9056A	
MB 240-631953/3	Method Blank	Total/NA	Water	9056A	
LCS 240-631953/4	Lab Control Sample	Total/NA	Water	9056A	

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-108A

Date Collected: 10/07/24 09:30 Date Received: 10/10/24 08:00 Lab Sample ID: 240-212734-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 05:18
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 15:34
Total/NA	Analysis	9056A		5	631516	JMR	EET CLE	10/18/24 17:52
Total/NA	Analysis	9056A		20	631516	JMR	EET CLE	10/18/24 18:11
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

Client Sample ID: DUP-01
Date Collected: 10/07/24 00:00

Date Collected: 10/07/24 00:00 Date Received: 10/10/24 08:00 Lab Sample ID: 240-212734-2

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 05:23
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 15:48
Total/NA	Analysis	9056A		5	631516	JMR	EET CLE	10/18/24 18:31
Total/NA	Analysis	9056A		20	631516	JMR	EET CLE	10/18/24 18:51
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

Client Sample ID: MW-104
Date Collected: 10/07/24 10:20

Date Received: 10/10/24 08:00

Lab Sample ID: 240-212734-3

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 05:27
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 15:51
Total/NA	Analysis	9056A		2	631516	JMR	EET CLE	10/18/24 19:11
Total/NA	Analysis	9056A		10	631516	JMR	EET CLE	10/18/24 20:10
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

Client Sample ID: MW-101 Date Collected: 10/07/24 11:08 Date Received: 10/10/24 08:00 Lab Sample ID: 240-212734-4

**Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 05:31
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 15:59
Total/NA	Analysis	9056A		1	631516	JMR	EET CLE	10/18/24 20:30

**Eurofins Cleveland** 

Job ID: 240-212734-1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-101

Date Collected: 10/07/24 11:08 Date Received: 10/10/24 08:00 Lab Sample ID: 240-212734-4

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9056A		10	631516	JMR	EET CLE	10/18/24 20:49
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

Client Sample ID: MW-107 Lab Sample ID: 240-212734-5

Date Collected: 10/07/24 12:04 Matrix: Water

Date Received: 10/10/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 05:44
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 16:02
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		10	632139	AJC	EET CLE	10/23/24 09:38
Total/NA	Analysis	9056A		100	631516	JMR	EET CLE	10/18/24 21:09
Total/NA	Analysis	9056A		1000	631516	JMR	EET CLE	10/18/24 21:29
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

Client Sample ID: MW-105 Lab Sample ID: 240-212734-6 Date Collected: 10/07/24 12:51

Date Received: 10/10/24 08:00

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 05:48
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 16:05
Total/NA	Analysis	9056A		5	631516	JMR	EET CLE	10/18/24 21:48
Total/NA	Analysis	9056A		50	631516	JMR	EET CLE	10/18/24 22:08
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

Client Sample ID: MW-103 Lab Sample ID: 240-212734-7

Chone Campio 121 mm 100	245 Gampio 12. 2.10 2.12. G. 1
Date Collected: 10/07/24 13:46	Matrix: Water
Date Received: 10/10/24 08:00	

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 05:53
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 16:07
Total/NA	Analysis	9056A		2	631516	JMR	EET CLE	10/18/24 22:28
Total/NA	Analysis	9056A		20	631953	JMR	EET CLE	10/22/24 22:25
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

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Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Lab Sample ID: 240-212734-8

Matrix: Water

Client Sample ID: MW-106 Date Collected: 10/08/24 07:45

Date Received: 10/10/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 05:57
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 16:10
Total/NA	Analysis	9056A		2	630745	JMR	EET CLE	10/16/24 00:39
Total/NA	Analysis	9056A		20	630745	JMR	EET CLE	10/16/24 00:58
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

Lab Sample ID: 240-212734-9

Matrix: Water

Date Collected: 10/08/24 09:00 Date Received: 10/10/24 08:00

**Client Sample ID: MW-102** 

Batch	Batch		Dilution	Batch			Prepared
Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 06:02
Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 16:13
Analysis	9056A		1	630745	JMR	EET CLE	10/16/24 01:18
Analysis	9056A		10	630745	JMR	EET CLE	10/16/24 01:38
Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07
	Type Prep Analysis Prep Analysis Analysis Analysis	Type         Method           Prep         3005A           Analysis         6010D           Prep         3005A           Analysis         6020B           Analysis         9056A           Analysis         9056A	Type         Method         Run           Prep         3005A           Analysis         6010D           Prep         3005A           Analysis         6020B           Analysis         9056A           Analysis         9056A	Type         Method         Run         Factor           Prep         3005A         1           Analysis         6010D         1           Prep         3005A         3005A           Analysis         6020B         1           Analysis         9056A         1           Analysis         9056A         10	Type         Method         Run         Factor         Number           Prep         3005A         630492           Analysis         6010D         1         630781           Prep         3005A         630492           Analysis         6020B         1         630799           Analysis         9056A         1         630745           Analysis         9056A         10         630745	Type         Method         Run         Factor         Number         Analyst           Prep         3005A         630492         XWS6           Analysis         6010D         1         630781         RKT           Prep         3005A         630492         XWS6           Analysis         6020B         1         630799         AJC           Analysis         9056A         1         630745         JMR           Analysis         9056A         10         630745         JMR	Type         Method         Run         Factor         Number         Analyst         Lab           Prep         3005A         630492         XWS6         EET CLE           Analysis         6010D         1         630781         RKT         EET CLE           Prep         3005A         630492         XWS6         EET CLE           Analysis         6020B         1         630799         AJC         EET CLE           Analysis         9056A         1         630745         JMR         EET CLE           Analysis         9056A         10         630745         JMR         EET CLE

**Client Sample ID: QUARRY SUMP** 

Date Collected: 10/08/24 09:30

Date Received: 10/10/24 08:00

Lab Sample ID: 240-212734-10 **Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 06:06
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 16:16
Total/NA	Analysis	9056A		5	630745	JMR	EET CLE	10/16/24 01:58
Total/NA	Analysis	9056A		50	630745	JMR	EET CLE	10/16/24 02:57
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

**Client Sample ID: QUARRY DISCHARGE** 

Date Collected: 10/08/24 09:40

Date Received: 10/10/24 08:00

	10/11/21 00:01
L	ab Sample ID: 240-212734-11
	Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6010D		1	630781	RKT	EET CLE	10/15/24 06:11
Total Recoverable	Prep	3005A			630492	XWS6	EET CLE	10/11/24 14:00
Total Recoverable	Analysis	6020B		1	630799	AJC	EET CLE	10/14/24 16:19
Total/NA	Analysis	9056A		5	630745	JMR	EET CLE	10/16/24 03:16

**Eurofins Cleveland** 

#### **Lab Chronicle**

Client: TRC Environmental Corporation. Job ID: 240-212734-1

Project/Site: CCR DTE Sibley Quarry

**Client Sample ID: QUARRY DISCHARGE** 

Lab Sample ID: 240-212734-11 Date Collected: 10/08/24 09:40

Matrix: Water

Date Received: 10/10/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9056A		50	630745	JMR	EET CLE	10/16/24 03:36
Total/NA	Analysis	SM 2540C		1	630381	TAV2	EET CLE	10/11/24 08:07

#### Laboratory References:

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

# **Accreditation/Certification Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-212734-1

#### **Laboratory: Eurofins Cleveland**

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

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

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Barberton, OH 44203

MICHIGAN
190 Chain of Custody Record

eurofins

Environment Testing

Figure (330) 497-9396 Phone (330) 497-0772	Sampler:	-		Lab F	PM:					Carrier Track	ng No(s):	COC No:	
Client Information Client Contact:	JAVIR		550		oks, K	ris M				0		240-124491-434	11.1
lacob Krenz	Phone: 734 90	14 33	10	E-Ma Kris.		ks@e	t.euro	finsus.co	om	State of Origin	1:	Page: Page of	
Company: TRC Environmental Corporation.			PWSID:					-	Analysis F	Requested		Job #:	
ddress: 540 Eisenhower Place	Due Date Request	ed:										Preservation Code D - HNO3	es:
city: Ann Arbor	TAT Requested (d	iys):		-	Ш	1						N - None	
State, Zip: Ali, 48108-7080	Compliance Project	et: A Yes	A No		Ш								
Phone: 813-971-7080(Tel) 313-971-9022(Fax)	PO#: 214272							Sulfate					
mall:  Krenz@trccompanies.com	WO #: 553931.0002		-		or No)	2		de and			9	100	<b>3</b>
Project Name: CCR DTE Sibley Quarry	Project #: 24016805		-		ample (Yes	500		Fluoride and			containers	240-2127	34 COC
iite: Aichigan	SSOW#:				ample D (Ve	Ca, Fe	TDS	Chloride,			of con	Other:	
Sample Identification	Sample Date	Sample	Type (C=comp,	Matrix (w=water, S=solid,	Field Filtered S	6010B Bo, 6020 C	2540C_Calcd - TI	9056A_28D - Chi			Total Number of	Constaller	A
Ampre Identification	Sample Date	Time	G=grab)   st-		XX	D		N				Special Ins	structions/Note:
MU-108-1	10/7/24	093	C	Water	VA		+	6			3		
Du 0 #0 1	LIV	_	Co	Water	14/	水	+	£			7		
MW 104	(1)	1030	4	Water	وباذ	1-4	7	4			3		
MW- 101	UI	3011	6	Water	14	4 4	X	4			3		
nu- 107	1111	POCI	6	Water	Nec	47	4	4			3		25
MW- 105	un	1251	ڼ	Water	Mr	14	*	X			3		7
MW- 103	in 17	1346	6	Water	4	41	4	4			3		79
MW -106	<b>७१६१३५</b>	0745	6	Water	ar i	44	1	4			3		
MW- 102	4 (7	du	6	Water	ひい	1 7	4	+			3		
Quarry Sump	4 6	0930		Water	20	11	F	7			7		
Quarry Discharge	111	oqide	C	Water	4:	1+	4	<b>1</b>			3		L
Possible Hazard Identification  Non-Hazard Flammable Skin Irritant Pois	on B Unkne				Sa				fee may b	e assessed if	samples are retaine ab Archi	ed longer than 1	
Peliverable Requested: I, II, III, IV, Other (specify)	on B \( \) Unkno	own R	Radiological		Sp			To Clie	C Requirer	Disposal By I	ab Archi	ve ror	Months
mpty Kit Relinquished by:		Date:			Time	:	_	_		Method	of Shipment		
relinquished by:	Date/Time: 124	110	Con	npany (		Rec	7/2	سر ح	-	1100	Date/Time:/24		Company
elinquished by Hewa	Date/Time: 10 /3	1 /2:		npany (RC		Rece	eived b	y. a	12	_	Date/Time: 19/24	1 1217	Company
elinquished by:	Date/Time: 10/9/24	1300	Con	DOTA		Rece	A APPLIE	EISS	LOAR		Date/Time: 0 - 2	V. C.	Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No	, , , , ,					Cool	er Tem	perature(s	s) °C and Other	Remarks:			

Cooler temperature upon-receipt COOLANT Wet Ice (CF 10.) Blue Ice C)°C) Foam Pla Observed Cooler Temp. Water See Multiple Cooler Form None °C Corrected Cooler Temp.

Ŋ Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were the seals on the outside of the cooler(s) signed & dated? Yes) No Yes) No X NA Receiving: checked for pH by Tests that are not

Shippers' packing slip attached to the cooler(s)? -Were tamper/custody seals intact and uncompromised?

UL 4F U Did custody papers accompany the sample(s)?

Were the custody papers relinquished & signed in the appropriate place?

Yes)No

Z

Oil and Grease TOC

~<u>~</u>

8

Yes No

9 Did all bottles arrive in good condition (Unbroken)? Was/were the person(s) who collected the samples clearly identified on the COC?

Could all bottle labels (ID/Date/Time) be reconciled with the COC?

Fee—No
For each sample, does the COC specify preservatives (YIN), # of containers (VIN), and sample type of grab/comp(YAN)?

Were correct bottle(s) used for the test(s) indicated?

17 Are these work share samples and all listed on the COC? Sufficient quantity received to perform indicated analyses?

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

13 14 Were all preserved sample(s) at the correct pH upon receipt?

Were VOAs on the COC?

Yes Yes) No

X

pH Strip Lo# HC447997

Page 34 of 35

5 Were air bubbles >6 mm in any VOA vials? Was a VOA trip blank present in the cooler(s)?

Was a LL Hg or Me Hg trip blank present? Trip Blank Lot #

Yes No

Date হ via Verbal Voice Mail Other

Contacted PM

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

19. SAMPLE CONDITION

Sample(s) Sample(s) were received after the recommended holding time had expired were received in a broken container

Sample(s) 20. SAMPLE PRESERVATION were received with bubble >6 mm in diameter (Notify PM)

Sample(s) \_\_\_\_\_\_ Time preserved. VOA Sample Preservation - Date/Time VOAs Frozen. Preservative(s) added/Lot number(s): were further preserved in the laboratory

10/10/2024

Temperature readings.

240-212734

10/23/2024

**Login Container Summary Report** 

Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
MW-108	240-212734-A-1	Plastic 60 mL - unpreserved	
WW-108	240-212734-B-1	Plastic 500ml - unpreserved	American designation of the control
MW-108	240-212734-C-1	Plastic 500ml - with Nitric Acid	<2
DUP-01	240-212734-A-2	Plastic 60 mL - unpreserved	
DUP-01	240-212734-B-2	Plastic 500ml - unpreserved	
DUP-01	240-212734-C-2	Plastic 500ml - with Nitric Acid	<b>△</b> 2
MW-104	240-212734-A-3	Plastic 60 mL - unpreserved	
MW-104	240-212734-B-3	Plastic 500ml - unpreserved	The state of the s
MW-104	240-212734-C-3	Plastic 500ml - with Nitric Acid	\$2
MW-101	240-212734-A-4	Plastic 60 mL - unpreserved	The state of the s
MW-101	240-212734-B-4	Plastic 500ml - unpreserved	
MW-101	240-212734-C-4	Plastic 500ml - with Nitric Acid	
MW-107	240-212734-A-5	Plastic 60 mL - unpreserved	
MW-107	240-212734-B-5	Plastic 500ml - unpreserved	
MW-107	240-212734-C-5	Plastic 500ml - with Nitric Acid	∆
MW-105	240-212/34-A-6	Plastic 60 mL - unpreserved	= 35
MW-105	240-212734-C-6	Plastic 500ml - with Nitric Acid	A   Pag
MW-103	240-212734-A-7	Plastic 60 mL - unpreserved	epiperiological designation of the control of the c
MW-103	240-212734-B-7	Plastic 500ml - unpreserved	
MW-103	240-212734-C-7	Plastic 500ml - with Nitric Acid	۵ 
MW-106	240-212734-A-8	Plastic 60 mL - unpreserved	
MW-106	240-212734-B-8	Plastic 500ml - unpreserved	
MW-106	240-212734-C-8	Plastic 500ml - with Nitric Acid	\$
MW-102	240-212734-A-9	Plastic 60 mL - unpreserved	
MW-102	240-212734-B-9	Plastic 500ml - unpreserved	
MW-102	240-212734-C-9	Plastic 500ml - with Nitric Acid	۵     
QUARRY SUMP	240-212734-A-10	Plastic 60 mL - unpreserved	
QUARRY SUMP	240-212734-B-10	Plastic 500ml - unpreserved	
QUARRY SUMP	240-212734-C-10	Plastic 500ml - with Nitric Acid	\$
QUARRY DISCHARGE	240-212734-A-11	Plastic 60 mL - unpreserved	
QUARRY DISCHARGE	240-212734-B-11	Plastic 500ml - unpreserved	
QUARRY DISCHARGE	240-212734-C-11	Plastic 500ml - with Nitrıc Acıd	\$

# PREPARED FOR

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

Generated 12/12/2024 7:34:57 PM

# **JOB DESCRIPTION**

**CCR DTE Sibley Quarry** 

# **JOB NUMBER**

240-216225-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

# **Eurofins Cleveland**

#### **Job Notes**

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

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

# **Authorization**

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

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## **Definitions/Glossary**

Client: TRC Environmental Corporation.

Job ID: 240-216225-1

Project/Site: CCR DTE Sibley Quarry

**Qualifiers** 

**Metals** 

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**General Chemistry** 

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

**Eurofins Cleveland** 

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#### **Case Narrative**

Client: TRC Environmental Corporation.

Project: CCR DTE Sibley Quarry

Job ID: 240-216225-1 Eurofins Cleveland

# Job Narrative 240-216225-1

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

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

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

#### Receipt

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

#### Metals

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

#### **General Chemistry**

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

**Eurofins Cleveland** 

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Job ID: 240-216225-1

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# **Method Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-216225-1

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

#### **Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

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

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# **Sample Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-216225-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-216225-1	MW-102	Water	12/06/24 07:57	12/07/24 08:00
240-216225-2	MW-107	Water	12/05/24 09:42	12/07/24 08:00
240-216225-3	MW-108A	Water	12/05/24 11:08	12/07/24 08:00
240-216225-4	DUP-01	Water	12/05/24 00:00	12/07/24 08:00
240-216225-5	DLIP-02	Water	12/05/24 00:00	12/07/24 08:00

# **Detection Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-216225-1

Client Sample ID: MW-1	02				Lab San	ple ID: 240	0-216225-1
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Calcium	250000		1000	ug/L		6020B	Total
							Recoverable
Iron	400		100	ug/L	1	6020B	Total
_							Recoverable
Client Sample ID: MW-1	07				Lab San	ple ID: 240	0-216225-2
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Calcium	1300000		10000	ug/L	10	6020B	Total
							Recoverable
Iron	370		100	ug/L	1	6020B	Total
_							Recoverable
Client Sample ID: MW-1	08A				Lab San	ple ID: 24	0-216225-3
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	3200		40	mg/L		2540 C-2020	Total/NA
Client Sample ID: DUP-	01				Lab San	ple ID: 240	0-216225-4
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Calcium	1300000		10000	ug/L		6020B	Total
							Recoverable
Iron	550		100	ug/L	1	6020B	Total
_							Recoverable
Client Sample ID: DUP-	02				Lab San	ple ID: 240	0-216225-5
_							
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type

This Detection Summary does not include radiochemical test results.

12/12/2024

Client: TRC Environmental Corporation.

Job ID: 240-216225-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-102 Lab Sample ID: 240-216225-1

Date Collected: 12/06/24 07:57 Matrix: Water

Date Received: 12/07/24 08:00

Method: SW846 6020B - Met	tals (ICP/MS) - 1	Total Reco	verable					
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250000		1000	ug/L		12/09/24 14:00	12/10/24 23:34	1
Iron	400		100	ug/L		12/09/24 14:00	12/10/24 23:34	1

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Client: TRC Environmental Corporation. Job ID: 240-216225-1

Project/Site: CCR DTE Sibley Quarry

**Client Sample ID: MW-107** Lab Sample ID: 240-216225-2 Date Collected: 12/05/24 09:42

**Matrix: Water** 

Date Received: 12/07/24 08:00

Method: SW846 6020B - Met	als (ICP/MS)	- Total Reco	verable					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1300000		10000	ug/L		12/09/24 14:00	12/11/24 19:09	10
Iron	370		100	ug/L		12/09/24 14:00	12/10/24 23:36	1

Client: TRC Environmental Corporation. Job ID: 240-216225-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: MW-108A Lab Sample ID: 240-216225-3 Date Collected: 12/05/24 11:08

**Matrix: Water** 

Date Received: 12/07/24 08:00

General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540	3200		40	mg/L			12/11/24 10:33	1
_C-2020)								

Client: TRC Environmental Corporation. Job ID: 240-216225-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: DUP-01 Lab Sample ID: 240-216225-4

Date Collected: 12/05/24 00:00 Matrix: Water Date Received: 12/07/24 08:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable Analyte Result Qualifier Unit Prepared Analyzed Dil Fac Calcium 1300000 10000 ug/L 12/09/24 14:00 12/11/24 19:17 10 100 12/09/24 14:00 12/10/24 23:39 ug/L Iron **550** 

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Client: TRC Environmental Corporation. Job ID: 240-216225-1

Project/Site: CCR DTE Sibley Quarry

Client Sample ID: DUP-02 Lab Sample ID: 240-216225-5

Date Collected: 12/05/24 00:00 Matrix: Water

Date Received: 12/07/24 08:00

General Chemistry							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540	3600	40	mg/L			12/11/24 10:33	1

C-2020)

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## QC Sample Results

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-216225-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-638086/1-A

**Matrix: Water** 

Analysis Batch: 638317

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

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample** 

Prep Batch: 638086

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 1000 Calcium 1000 U ug/L 12/09/24 14:00 12/10/24 22:31 Iron 100 U 100 ug/L 12/09/24 14:00 12/10/24 22:31

Lab Sample ID: LCS 240-638086/2-A

**Matrix: Water** 

Analysis Batch: 638317

**Prep Type: Total Recoverable** Prep Batch: 638086

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 80 - 120 Calcium 25000 25200 ug/L 101 5000 5200 104 Iron ug/L 80 - 120

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

Lab Sample ID: MB 240-638381/1

**Matrix: Water** 

Analysis Batch: 638381

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

Prep Type: Total/NA

MB MB Result Qualifier RL Unit Prepared Dil Fac Analyzed **Total Dissolved Solids** 10 Ū 10 mg/L 12/11/24 10:33

Lab Sample ID: LCS 240-638381/2

**Matrix: Water** 

**Analysis Batch: 638381** 

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

**Eurofins Cleveland** 

# **QC Association Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-216225-1

#### **Metals**

#### **Prep Batch: 638086**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216225-1	MW-102	Total Recoverable	Water	3005A	
240-216225-2	MW-107	Total Recoverable	Water	3005A	
240-216225-4	DUP-01	Total Recoverable	Water	3005A	
MB 240-638086/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-638086/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### **Analysis Batch: 638317**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216225-1	MW-102	Total Recoverable	Water	6020B	638086
240-216225-2	MW-107	Total Recoverable	Water	6020B	638086
240-216225-4	DUP-01	Total Recoverable	Water	6020B	638086
MB 240-638086/1-A	Method Blank	Total Recoverable	Water	6020B	638086
LCS 240-638086/2-A	Lab Control Sample	Total Recoverable	Water	6020B	638086

#### Analysis Batch: 638439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216225-2	MW-107	Total Recoverable	Water	6020B	638086
240-216225-4	DUP-01	Total Recoverable	Water	6020B	638086

## **General Chemistry**

#### **Analysis Batch: 638381**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216225-3	MW-108A	Total/NA	Water	2540 C-2020	
240-216225-5	DUP-02	Total/NA	Water	2540 C-2020	
MB 240-638381/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-638381/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

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#### **Lab Chronicle**

Client: TRC Environmental Corporation.

Project/Site: CCR DTE Sibley Quarry

Lab Sample ID: 240-216225-1

12/11/24 10:33

EET CLE

**Matrix: Water** 

Job ID: 240-216225-1

Date Collected: 12/06/24 07:57 Date Received: 12/07/24 08:00

Client Sample ID: MW-102

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			638086	BN	EET CLE	12/09/24 14:00
Total Recoverable	Analysis	6020B		1	638317	AJC	EET CLE	12/10/24 23:34

Client Sample ID: MW-107 Lab Sample ID: 240-216225-2

Date Collected: 12/05/24 09:42 **Matrix: Water** Date Received: 12/07/24 08:00

Batch Batch Dilution Batch Prepared Method **Prep Type Number Analyst** or Analyzed Type Run **Factor** Lab Total Recoverable 3005A 638086 BN EET CLE 12/09/24 14:00 Prep Total Recoverable 12/10/24 23:36 Analysis 6020B 638317 AJC EET CLE 1 Total Recoverable Prep 3005A 638086 BN EET CLE 12/09/24 14:00 Total Recoverable 6020B 638439 AJC EET CLE 12/11/24 19:09 Analysis 10

Client Sample ID: MW-108A Lab Sample ID: 240-216225-3

Date Collected: 12/05/24 11:08 **Matrix: Water** Date Received: 12/07/24 08:00

638381 PQD2

Batch Dilution Batch Prepared **Batch Prep Type** Type Method Run **Factor** Number Analyst or Analyzed Lab

Client Sample ID: DUP-01 Lab Sample ID: 240-216225-4

Date Collected: 12/05/24 00:00 **Matrix: Water** 

Date Received: 12/07/24 08:00

Analysis

2540 C-2020

Total/NA

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			638086	BN	EET CLE	12/09/24 14:00
Total Recoverable	Analysis	6020B		1	638317	AJC	EET CLE	12/10/24 23:39
Total Recoverable	Prep	3005A			638086	BN	EET CLE	12/09/24 14:00
Total Recoverable	Analysis	6020B		10	638439	AJC	EET CLE	12/11/24 19:17

Client Sample ID: DUP-02 Lab Sample ID: 240-216225-5

Date Collected: 12/05/24 00:00 **Matrix: Water** 

Date Received: 12/07/24 08:00

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

**Laboratory References:** 

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

**Eurofins Cleveland** 

12/12/2024

# **Accreditation/Certification Summary**

Client: TRC Environmental Corporation. Project/Site: CCR DTE Sibley Quarry

Job ID: 240-216225-1

## **Laboratory: Eurofins Cleveland**

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24
Wisconsin	State	399167560	08-31-25

**Eurofins Cleveland** 

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#### **Eurofins Canton** 180 S. Van Buren Ave



# **Chain of Custody Record**

eurofins

**Environment Testing** America

7.6/2.8

phone 330.497.9396 fax 330.497.0772	Regul	atory Pro	gram:	] wo [	NPDES	5 [	RC	:RA	Other:					<b>Eurofins Environment Testing America</b>
			incent Bue			1								COC No:
Client Contact	Email: Vbu	ening@trcc	companies.c	com		Site	Cor	ntaci	:	Date:	12-3	5-2L	1	1 of1 COCs
TRC Companies	Tel/Fax: 9	34-904-33	02			Lab	Cor	ntact	: Kris Brooks	Carri	er:			TALS Project #:
1540 Eisenhower Place	-	Analysis T	urnaround	Time		П	T	T						Sampler:
Ann Arbor Michigan, 48108	CALEN	DAR DAYS	_	RKING DAY		11								For Lab Use Only:
734-971-7080 Phone	TAT if	different fron	n Below	5 Days	3 Days	2	2						1   1	Walk-in Client:
NA		2	2 weeks		y	z)							111	Lab Sampling:
Project Name: DTE CCR Sibley Quarry Landfill		1	l week			ے[≺ا	ھ اھ	SS						
Site: Michigan		2	2 days			9 8	읽늗	F						Job / SDG No.:
P O # 214272		1	l day			E S	2 2	Pol	1				111	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	6020Total Iron (Fe)	2640C_Calcd - TDS						Sample Specific Notes:
MW-102	12-6-24	Q7:57	G	GW	1	NI	N X	Г						
MW-107	12-8-24		G	GW	1	NI	N X							
MW-108A		111:08	G	GW	1	NI	N	x						
DUP-01	12-5-24		G	GW	1	NI	N X							
DUP-02	12-5-24		G	GW	1	NI	N	х						
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3 Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Pleathe Comments Section if the lab is to dispose of the sample.  Non-Hazard Flammable Skin Irritant Special Instructions/QC Requirements & Comments: TR	ase List any	EPA Was			ample in			ple C	Disposal ( A fee ma	ay be asse			are reta	ined longer than 1 month)
Custody Scale latest:	Custodu S	'aal Na							Cooler Temp. (°C)	· Obe'd:		Corr'd:		Therm ID No.:
Custody Seals Intact: Yes No  Relinquished by:	Custody S Company:			Date/T	ime:	Ī	Rece	ived		. Obs u	Compa			Date/T/me:/
Maryada		7126		126-	-24 is	38		_	July M			EE'	M	1746/24
Relinquished by:	Company	NA		1376	754	F	Rece	ived	by: 43		Compa	WB		Date time 24 8:00
Relinquished by:	Company			Date/T	ime:	F	Rece	ived	in Laboratory by:		Compa	any:		Date/Time:

					-	
Burnfine Cooler # 50	Receipt After-hours Drop-off Date/Time	FedEx. 1st Grd Exp UPS FAS (Waypoint) Chent Drop Off Eurofins Courier Other	Cooler Received on 12)7/29	Client TRC	Europris - Cleveland Sample R Barberton Facility	
English Boy	ite/Time	AS (Waypour			eceipt Form/	
From Boy Client Cooler Boy Other		Chent Drop	Opened on 12/7/24	Site Name	Narrative .	
T C		Off E	2171:			
) } }	Storage Location	profins Courser	F		Login	
	1	Other	7	Cooler unpacked by	#	

Packing maternal used. COOLANT d. Bubble Wrap XOCI DIED. Blue Ice Foam Dry Ice Plastic Bag Water None None Other

Cooler temperature upon receipt RGUN# 村名 (CE APP) ţ Ğ Observed Cooler Temp. See Multiple Cooler Form °C Corrected Cooler Temp

Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were the seals on the outside of the cooler(s) signed & dated? 8 8 8 (3) (3) (3) (3) (3) (3) (4) Yes Yes (2) ₹(**3**) ä (3) NA Tests that are not checked for pH by VOAs Receiving:

Shippers' packing slip attached to the cooler(s)?

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Did custody papers accompany the sample(s)?

Were the custody papers relinquished & signed in the appropriate place?

Was/were the person(s) who collected the samples clearly identified on the COC?

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Oil and Grease TOC

Did all bottles arrive in good condition (Unbroken)?

Could all bottle labels (ID/Date/Time) be reconciled with the COC?

Yes (NO)

For each sample, does the COC specify preservatives (NN), # of containers (NN), and sample type of grab/comp(NN)? YES NO

Were correct bottle(s) used for the test(s) indicated?

Sufficient quantity received to perform indicated analyses?

Are these work share samples and all listed on the COC?

Were all preserved sample(s) at the correct pH upon receipt? If yes, Questions 13-17 have been checked at the originating laboratory

14 15 Were VOAs on the COC? Were air bubbles >6 mm in any VOA vials?

16 17 Was a VOA trip blank present in the cooler(s)?

Was a LL Hg or Me Hg trip blank present? Trip Blank Lot# Larger than thus Yes Yes

Ŷ via Verbal Voice Mail Other

Concerning

Contacted PM

Date

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

19 SAMPLE CONDITION

Sample(s) Sample(s) were received after the recommended holding time had expired. were received in a broken container

Sample(s)\_\_\_\_\_ Time preserved. 20. SAMPLE PRESERVATION Sample(s) Preservative(s) added/Lot number(s) were received with bubble >6 mm in diameter (Notify PM) were further preserved in the laboratory

VOA Sample Preservation -Date/Tume VOAs Frozen

WI-NC-099-110524 Cooler Receipt Form.doc

ON COL

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少5つ4 68 pH Strip Lo# HC4<del>48976</del>

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# **Login Container Summary Report**

240-216225

Temperature readings.			12/
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
MW-102	240-216225-A-1	Plastic 500ml - with Nitric Acid	\$
MW-107	240-216225-A-2	Plastic 500ml - with Nitric Acid	<2
MW-108A	240-216225-A-3	Plastic 500ml - unpreserved	
DUP-01	240-216225-A-4	Plastic 500ml - with Nitric Acid	<2
DUP-02	240-216225-A-5	Plastic 500ml - unpreserved	American services ser

Page 20 of 20 12/12/2024

Page I of I



PROJECT NAME:	DTE CCR SQLF 1SA24
PROJECT NUMBER:	553931.0002.0000
PROJECT MANAGER:	Vincent Buening
SITE LOCATION:	803 Fort Street Trenton MI, 48183
DATES OF FIELDWORK:	4/8/2024 TO 4/9/2024
PURPOSE OF FIELDWORK:	Semiannual CCR Event
WORK PERFORMED BY:	Andrew Whaley, Elric Rinehart



# **GENERAL NOTES**

PROJECT NAME:	DTE CCR SQLF 1SA	24	al Institu	TIME ADDIVED.
			4/18/24	TIME ARRIVED 750
PROJECT NUMBER:	553931.0002.0	0000 AUTH	OR: AW ER	TIME LEFT: 1530
			IFB.	
	~ ~ ~	WEAT!		
TEMPERATURE: SO	-70 °F WIND:	S & MP	T VISIB	ILITY: Clear - Aprily closely
	W	ORK / SAMPLIN	G PERFORMED	
	w/ site			
	water	levels		
Calibrate	YS1			
Sample N	1W-105, A	1W-101,1	1W-10Z, NW-1	07, MW-103, and
NW-106	·			
PROI	BLEMS ENCOUNTERE	D	CORREC	TIVE ACTION TAKEN
HO Quam	/ SUMP LA	s under	Collect Su	mp sample
maintenence			on 4-9-202	24 When in
			operation	
	,		1	
		COMMUNI	CATION	
NAME	REPRESENTING		SUBJECT / CO	MMENTS
Vincent Buening	TRC	Project Mana	ger / Updates	
Bob Haske	DTE	Site Contact:	734-716-3142 (Cell)	<u> </u>
	INVESTI	GATION DERIVI	D WASTE SUMMARY	
WASTE MATRIX	QUANTITY		COMME	NTS
GW	NM	To Ground		
	15 419	1201	5/	2 12/1

DATE

SIGNED



## **GENERAL NOTES**

PROJECT NAME: DTE CCR SQLF 1SA24 DATE: 4/9/4 TIME ARRIVEDORY PROJECT NUMBER: 553931 0002 0000 AUTHOR AW ER TIME LEFT: 1/0C  WEATHER  TEMPERATURE: 4/9-73 *F WIND: 2-8 MPH VISIBILITY: Clear  WORK / SAMPLING PERFORMED  Check in with site contact - Calibrate YSI Scample Mischarge, and Mus-108 A, avany Surep, avany hischarge, and Mus-108 A, avany Surep, avany hischarge, and Mus-109  PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  OMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS  GW NM TO Ground			1		<del>/ - 1</del>		Ι
WEATHER  TEMPERATURE: 49-73°F WIND: 2-8 MPH VISIBILITY: CLEAN  WORK / SAMPLING PERFORMED  Check in with site contact - Calibrate > SI  Sample MV-108A, Quarry Somp, Quarry Discharge, and MW-109  Deliver LL Hy Samples to Delab  PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  OMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	PROJECT NAME:	DTE CCR SQLF 1SA2	24	DATE: 4	<u> 19124</u>		TIME ARRIVED
TEMPERATURE: 49-73 °F WIND: 3-8 MPH VISIBILITY: CLEON  WORK / SAMPLING PERFORMED  Check in with site contact - Calibrate 751  Sample MV-108A, Quarry Surry, Quarry Pischarge, and MW-108 A Delab  PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  PROBLEMS ENCOUNTERED SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	PROJECT NUMBER:	553931.0002.0	0000	AUTHOR:	AW) ER		TIME LEFT: 160
TEMPERATURE: 49-73 °F WIND: 2-8 MPH VISIBILITY: CLEAR  WORK / SAMPLING PERFORMED  Check in with site contact - Calibrate > SI Sample MW-108A, Quarry Sump, Quarry Discharge, and MW-104  PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  PROBLEMS ENCOUNTERED SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS							
WORK / SAMPLING PERFORMED  Check in with Site contact - Calibrate 751  Sample MN-108A, Quarry Surry, Quarry Pischarge, and MN-109  PROBLEMS ENCOUNTERED  COMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	. 10						
Check in with site contact - Calibrate >SI Sample MW-108A, Quarry Surry, Quarry Discharge, and MW-109  Deliver LL Hy Samples to Delab  PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  NAME REPRESENTING SUBJECT/COMMENTS  Vincent Buening TRC Project Manager/ Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	TEMPERATURE: 4/4-	-73°F WIND:	3-83	MPH		VISIBILITY:	<u> aur</u>
PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  COMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS		W	ORK/SAM	IPLING PE	RFORMED		
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PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  COMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	Sample M	W-108A,	Quar	m Sur	7P, a	varry	Discharge,
PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  COMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	and MW-	104		7		· · · · · ·	- 4 /
PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  COMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS							
PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN  COMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	Deliver LL	Hy Same	ples	+0	selab		
COMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS							
COMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS							
COMMUNICATION  NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS						4	
NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	PRO	3LEMS ENCOUNTERE	D		COR	RECTIVE	ACTION TAKEN
NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS							
NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS							
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NAME REPRESENTING SUBJECT / COMMENTS  Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS							
Vincent Buening TRC Project Manager / Updates  Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	· · ·		СОМ	MUNICATION	ON		
Bob Haske DTE Site Contact: 734-716-3142 (Cell)  INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	NAME	REPRESENTING .			SUBJECT	T / COMMEN	NTS
INVESTIGATION DERIVED WASTE SUMMARY WASTE MATRIX QUANTITY COMMENTS	Vincent Buening	TRC	Project N	Manager /	Updates		
WASTE MATRIX QUANTITY COMMENTS	Bob Haske	DTE	Site Con	ıtact: 734-7	16-3142 (Cell	l)	
WASTE MATRIX QUANTITY COMMENTS			<u> </u>				
WASTE MATRIX QUANTITY COMMENTS		1					
		INVESTI	GATION D	ERIVED W	ASTE SUMMA	RY	
GW NM To Ground	WASTE MATRIX	QUANTITY			СО	MMENTS	
	GW	NM	To Grou	ınd			
1							
			<u> </u>				
a la			بملي			1	111
Colon Mu 419/24 la / 4/1 1/	elle L	Muy 9	14/24	/	lh	-//	4// 4/4/

DATE

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SIGNED



## **EQUIPMENT SUMMARY**

PROJECT NAME:	DTE CCR S	SQLF 1SA24	SAMPLER NAME:	Andrew Whaley, Elric Rinehart							
PROJECT NO.:	553931.000	02.0000	SAIVIPLER IVAIVIE.	Andrew Whaley, Eine Kinenart							
WATER LEVEL MEASU	IREMENTS COLL	ECTED WITH:									
HER	ON DIPPER-T		F	PROJECT DEDICATED							
NAME AND MODEL OF IN	ISTRUMENT	<del></del>	SERIAL NUMBER (IF APPLICABLE)								
PRODUCT LEVEL MEA	SUREMENTS CO	LLECTED WITH	l:								
	NA			NA							
NAME AND MODEL OF IN	ISTRUMENT		SERIAL NUMBER (I	IF APPLICABLE)							
DEPTH TO BOTTOM O	F WELL MEASU	REMENTS COLL	ECTED WITH:								
	NA			NA							
NAME AND MODEL OF IN	ISTRUMENT		SERIAL NUMBER (I	IF APPLICABLE)							
PURGING METHOD											
BLADDER	PUMP (DEDICAT	ED)	ı	PROJECT DEDICATED							
NAME AND MODEL OF P	UMP OR TYPE OF	BAILER	SERIAL NUMBER (I	IF APPLICABLE)							
SAMPLING METHOD											
BLADDER	PUMP (DEDICAT	ED)	ı	PROJECT DEDICATED							
NAME AND MODEL OF P	UMP OR TYPE OF	BAILER	SERIAL NUMBER (I	IF APPLICABLE)							
•	NA			NA							
NAME AND MODEL OF FI	ILTERATION DEVI	CE	FILTER TYPE AND	SIZE							
DEDICA	TED POLY TUBIN	NG	✓ LOW-F	LOW SAMPLING EVENT							
TUBING TYPE			-								
PURGE WATER DISPO	SAL METHOD										
✓ GROUND	DRUM	POTW	☐ POLYTANK [	OTHER							
DECONTAMINATION A	ND FIELD BLAN	K WATER SOUF	RCE								
ST	ORE BOUGHT			STORE BOUGHT							
POTABLE WATER SOUR	lu S	4/9/24 DATE	DI WATER SOURC	1 AT 4/1/2 DATE							

# TRC

#### **WATER LEVEL DATA**

DTE CCR	SQLF 1SA24			DATE	118/24	/
553931.00	02.0000			AUTHO	R: AW ER	
TIME	REFERENCE	DEPTH TO WATER (FEET)	вот	TOM	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
0817	TOC	118.50	N	A	NA	NM
OF30	TOC	153.98	N	1)	NA	MM
0820	TOC	113.80	N	7	AN	M
0900	Toc	19.63	N	1	NA	NM
0855	TOC	, •	11/	(	NA	M
082/7	TOC	, , ,	NI	}	NA	M
0838	TOC_	155.20	N	A	NA	NM
0757	TOC	51.43	NI	}	NA	VM
						-
	,					
				·		
	553931.00 TIME  0877 0875 0877	0817 TOC 0830 TOC 0870 TOC 0855 TOC 0835 TOC 0838 TOC	553931.0002.0000  TIME REFERENCE WATER (FEET)  0877 TOC 118.50  0870 TOC 113.80  0870 TOC 113.80  0875 TOC 163.80  0877 TOC 222.64  0878 TOC 155.20	553931.0002.0000  TIME REFERENCE WATER BOT (FEET)  OBJO TOC 118.50 N  OBJO TOC 113.80 N  OBJO TOC 113.80 N  OBJO TOC 163.80 N  OBJO TOC 163.80 N  OBJO TOC 155.20 N	553931.0002.0000  TIME REFERENCE WATER (FEET)  0817 TOC 118.50 NA  0830 TOC 183.98 NA  0830 TOC 183.98 NA  0835 TOC 183.80 NA  0835 TOC 163.80 UL  0847 TOC 222.64 NA  0838 TOC 155.20 NA	553931.0002.0000  AUTHOR: AW ER  TIME REFERENCE WATER (FEET)  D877 TOC 118.50 NA NA  O830 TOC 153.98 NA NA  O870 TOC 113.80 NA NA  O855 TOC 163.80 NA NA  O857 TOC 163.80 NA NA  O838 TOC 155.20 NA NA  O838 TOC 155.20 NA NA

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

SIGNED DATE

CHECKED



# WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE CCR SQLF 1SA24			MODEL: Y	SI Do	DSS	SAMPLER:	AW EF	₹
PROJECT NO.:	553931.0002.0000			SERIAL#:	PROJEC	T	DATE: 4/5	124	
PH	CALIBRATION CHECK			<del></del>	SPECI	FIC CONDU	CTIVITY CALIBI	RATION C	HECK
pH 7 (LOT #) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	pH 4 10 (LOT #): C K   H (EXP. DATE): NSV / S POST-CAL. READING / STANDARD	CAL. RANGE	TIME	/EV	CAL. RE OT#)(//) (P. DATE): CO POST-CAL. READ	0971	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
7.02 17.02	4001400	WITHIN RANGE	OPS	T'	260	1260	19.0	WITHIN RANGE	OHZ.
<del>'</del>	/	RANGE WITHIN			,	,		RANGE WITHIN	
,	/	RANGE			,	,		RANGE	
ORP	CALIBRATION CHECK	RANGE	l	J L	<u> </u>	D.O. CAL	  BRATION CHE	RANGE	
CAL. READING (LOT #): 23 7 1003 17 (EXP. DATE): SED. 24	TEMPERATURE (*CELSIUS)	CAL. RANGE	TIME		CAL. RE		TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD		1		POS	ST-CAL. READING	3/SATURATED AIR	( 5220,000)		
233.5 233.5	17.2	WITHIN	917		9.75	9.75	152	WITHIN RANGE	920
/		WITHIN RANGE			,			WITHIN	
/		RANGE			,			WITHIN	
		WITHIN						WITHIN RANGE	
<del></del>	ITY CALIBRATION CHEC	K	1	1 —	Allegant		COMMENTS		
(LOT #): 21680074 (EXP. DATE) 9/24	READING (NTU)  (LOT #): 2 6/010}  (EXP. DATE): 7/3/	CAL. RANGE	TIME		AUTOCAL \$ OT #): (P. DATE):	SOLUTION	LIST LOT NUMBERS	SOLUTION AND EXPIRATI BRATION CHE	ON DATES
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD	[ [E]		<b>├</b>	CALIBRATED P	ARAMETERS		ON RANGES <sup>(1</sup>	)
0.00 10.00	10001000	WITHIN RANGE	006_		☐ pH		pH: +/- 0.2 S.		
. /	/	WITHIN RANGE			☐ CON	D		F CAL. STAN	DARD
/	/	RANGE			☐ ORP		ORP: +/- 25 m\		
	/	RANGE			☐ D.O.		D.O.: VARIES		
	NOTES			,	TUR	3	TURB: +/- 5% OI	F CAL. STAN	DARD
Separate Tu	urbidity Meter LaMotte	2020t					(1) CALIBRATION RAN THE MODEL OF THE V		
							<u> </u>		
P	ROBLEMS ENCOUNTERED					CORRECTI	VE ACTIONS		
Cellen us	ling 4	19/24	_		EL	-0	M		1/4/20
SIGNED		DATE			CHECKED	B	1/	•	DATE



# WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE CCR SQLF 1SA24		· · · · · ·	MODEL:	YSI	Pro	Des	SAMPLER	 ₹:	AW	ER	
PROJECT NO.:	553931.0002.0000			SERIAL#	<del></del>	ROJEC		DATE:	la I	21/		
		** ***		!					174	<del>/                                    </del>		
pH 7	ph 10	<u> </u>		1 1			IFIC CONDL	TEMPER		RATION	CHE	:CK
(LOT #):36K 1372	(LOT #) SICILGY.	041					0971	TEMPER	ATURE	041		
(EXP. DATE): NOV/25	(EXP. DATE): \\ \( \D\\\\/\ \Z\)	CAL. RANGE	TIME		(EXP. DA			(°CELS	(2118)	CAL. RANG	╒║╶	TIME
POST-CAL, READING / STANDARD	POST-CAL. READING / STANDARD				•	· \ <b>X</b>	ing/Standard	( 0222	100)			
704 17.04	400 1400	WITHIN	0750		1220	9	11220	17.	3	X WIT	IIN 25	753
1	1	WITHIN RANGE					1			□ WIT		
1	1	WITHIN RANGE					1			□ WIT		
/	1	WITHIN					1			☐ WIT	HIN	
ORP	CALIBRATION CHECK	NANGE					D.O. CAL	IBRATIO	V CHE		<u>GEI</u>	
CAL. READING	TEMPERATURE			1 1	C	AL. R	EADING	TEMPER				
(LOT #):235/00212 (EXP. DATE):9/26	(°CELSIUS)	CAL. RANGE	TIME					(°CELS	SIUS)	CAL. RANG	E .	TIME
POST-CAL. READING / STANDARD		1	,		POST-CAL	READIN	G /SATURATED AIF					
232.1 / 232.1	17.0	WITHIN RANGE	2756		4.4	19	1949	16.	6	WIT RAN		758
1		WITHIN RANGE					1			☐ WIT		
1		WITHIN RANGE					1			☐ WIT		
1		WITHIN RANGE					1			☐ WIT		
TURBID	ITY CALIBRATION CHEC	K	l					COMME	NTS			-
CALIBRATION	READING (NTU)				רטא 🔲	TOCAL	SOLUTION	✓ ST	ANDARD	SOLUTION	ON (S)	,
(LOT #): 210-20074	(LOT#):521040103	CAL.	TIME		(LOT #):			LIST LOT N				
(EXP. DATE): 9/22	(EXP. DATE): 7/22	RANGE			(EXP. DA			ļ		BRATION C		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD	K71 WITHIN	a 65-	-		-	PARAMETERS	1		ON RANGE	S (1)	
0.00 0.00	10.0 10.0	<del> </del>	0800	)		рН		pH:	+/- 0.2 S.	Ú.		
. 1	/	☐ WITHIN RANGE				CON	1D	COND:	+/- 1% OI	F CAL. S1	AND/	\RD
1	1	WITHIN RANGE				ORF	•	ORP:	+/- 25 m\	/		
1	1	WITHIN RANGE				D.O		D.O.:	VARIES			
	NOTES			_		TUR	RB	TURB:	+/- 5% O	F CAL. ST	ANDA	١RD
Separate To	urbidity Meter LaMotte	2020t						(1) CALIBRA				
				_				THE MODEL	, OF THE	WATER Q	JALITY	METER
				<u></u>								
F	PROBLEMS ENCOUNTERED						CORRECT	IVE ACTIONS				
	1.											
11/11/11	Well W.	10/20	,		,	//		11	4	ç	1/1	1/2.
SIGNED	71	DATE	-		CH	HECKE	BY	1		$-\epsilon$	<u> </u>	ATE

# ○ STRC

PROJECT	NAME:	DTE C	CR SQLF 15	6A24	PREPARED				CHECKED		
PROJECT	NUMBER	R: 55393	1.0002.0000		BY: A	W ER	DATE//S	121	BY:	R	DATE:4/1/24
SAMPLE I	D: MC	s-10.	5	WELL	DIAMET	ER:	2" 🗸 4" 🗌	6"	OTHER	₹	
WELL MAT	ERIAL:	PVC	✓ss [	IRON [	GALVA	NIZED S	TEEL		OTHER	?	
SAMPLE T	/PE:	☑ GW	□ww □	] sw 🛚	DI		LEACHATE		OTHER	?	
PURG	SING	TIME	24 [	A41/21/24	/	S/	AMPLE	TIME	944	,	DATE//S/Z/
PURGE METHOD	. —	PUMP BAILER	BLADDER PU	IMP (DEDICA	ATED)	PH: (		U CO		VITY: _&	mg/L umhos/cm
DEPTH TO	WATER:	19.63	T/ PVC			TURBI	DITY: LA	NT	U		
DEPTH TO	воттом	NM	T/ PVC			иои 🔀		ĢHŢ		ODERATE	E VERY
WELL VOL	JME:	MM	LITERS	GALLO	NS	TEMPE	RATURE:l	1.6	.°C   01	THER:	
VOLUME REMOVED: 400 ILITERS GALLONS						COLOF	: <u>Clear</u>		OI	DOR:	None
COLOR:	LIC	Cet	C	DOR: NG	ne	FILTRA	TE (0.45 um)	YE	s 🔽	] NO	
			BIDITY			FILTRAT	E COLOR: NA				DDOR: NA
NONE			MODERATE		RY		<del></del>	MSD		J DUP-	01_
DISPOSAL	METHOD:	✓ GROUN	ND DRUM	Λ ☐ OTHEI	₹	СОММ	ENTS: LL	ta a	colle	cted	
TIME	PURGE RATE	PH	CONDUCTIVIT	Y ORP		D.O.	TURBIDITY	TEMP	ERATURE	WATE	L PURGE VOLUME
	(ML/MIN)	(SU)	(umhos/cm)	(mV)		mg/L)	(NTU)		(°C)	(FEE	
7724	Z00	6.04	8103	111.9	2	.80	5.29	11.	7	14,	
424		6.59	7852	314	<u>l.</u>	52	2.71	11.	6		1.0
934		6.67	7995	43.6	-1	48	2.31	11.	6		20
939		7.73	8025	45.0	> 1	45	1.66	11.0	6		7.0
944	4	6.76	(20027	41.5	1	45	1.19	11.	6		4.0
							\$.2.3.i				
							***************************************		***********************		
							may Bayahiya Abi,aryaza Ami'aryayina Ami bi galinda aban.		desis recorrence siarun de Punto		
			yraniceonicastrobenessa viewsnienissannien			. ************	n, righter de minimiter alle de lemañor de destant e se reconstituir des pai	ļ	kalantingka ja maalamanaj naaj Mhara		
									makin manya aman kampinan		
								<u> </u>			
NO pH: +/-		<b>LIZATION T</b> COND.: +/-		PLETE WHEI P: +/- NA		CESSIVI +/- NA			THIN THI or </td <td></td> <td>WING LIMITS: TEMP.: +/- 0.5°C</td>		WING LIMITS: TEMP.: +/- 0.5°C
BOTTLES	S FILLED	PRESERV	ATIVE CODE	A - NONE	В-	HNO3	C - H2SO4	1 D-	- <b>N</b> aOH	E -	HCL F
NUMBER	SIZE	TYPE	PRESERVA	TIVE FILT	ERED	NUMB	ER SIZE	TY	PE F	PRESERV	ATIVE FILTERED
Z	500mL	PLASTIC	А	ΠY	☑ N						
こ	500mL	PLASTIC	В	ΠY	☑ N						□Y □N
2	60mL	PLASTIC	Α	ΠY	☑ N					FAC-, A SEEBLE & M. CARACTE VA. 10.1.	□Y □N
1	40 mL	VOA	A	□ Y	☑ N			-			
				□ Y	□ N						□ Y □ N
SHIPPING	METHOD:	/ Micil	20	DATE SHIPP	ED: 4	1-10	-24	All	RBILL NU	JMBER:	
SHIPPING METHOD: Courier DATE SHIPPED: 4-19-24 AIRBILL NUMBER: —  COC NUMBER: — SIGNATURE: A. W.L. DATE SIGNED: 4-9-24						4-4-24					

# → TRC

PROJECT	NAME:	DTE C	CR SQLF 1	SA24	PREPARED				CHECKED		
PROJECT	NUMBER	R: 55393	1.0002.0000		BY: /	AW Æ	DATE:4/8	124 BY:	Au		DATE:49-24
SAMPLE II		ω~ ( □ PVC	<i>ပ (</i> ସss ြ	WELL	DIAMET	TER:	2" 🗸 4" 🗌		HER HER		
SAMPLE TY		☐ GW	☐ WW [	sw 🗆	DI		LEACHATE	·····	HER	· · · · · · · · · · · · · · · · · · ·	
PURG			025	DATE: U/8	124		AMPLE	TIME: 10	(-r)	Ь	ATE: 4/8/2 4
PURGE METHOD		PUMP	065	JMP (DEDICA		PH:	6.98 s	U CONDL	ICTIVIT	Y: <u>1</u> £	umhos/cm
	니	BAILER	T. D. C.					V DO:	1.4	C m	g/L
DEPTH TO		4 /4 /	T/ PVC			TURBII		NIU GHT □	MODE	ERATE	☐ VERY
WELL VOLU		MM	LITERS	GALLO	NS				OTHE		
VOLUME R			X LITERS	GALLO	DNS	COLOF			ODOF		Nous
COLOR:	Clou			DOR: NOY	1e	+	TE (0.45 um)	YES	√ V		
			BIDITY			FILTRA1	E COLOR: NA		FILTE	RATE OD	OR: NA
NONE	🔀 SLI		MODERATE	☐ VE	RY	QC SAI	MPLE: MS	/MSD		UP-	
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: Clife Collected											
TIME	PURGE RATE	PH	CONDUCTIVI	Y ORP		D.O.	TURBIDITY	TEMPERAT	URE	WATER LEVEL	CUMULATIVE PURGE VOLUME
									(GAL OR L)		
*	200	6.51	1593	-14./	\	01	17.7_	12.4		65.80	1
1030		6.55	1480	-17.2		,58	2.79	12.1			1.0
1035		6.75	1509	-18.0		- 5	1.81	12.1			Ζ.ω
1040		6.92	1526	-20.6		.49	1,07	12.1			3.6
1048		96-97	1539	-27.4		.46	0.47	12.1			4.0
1050		6.95	1540	-27.2	_ /1.	46	1.58	12.2			5.0
			****					THE OWNER OF THE PARTY OF THE OWNER OF THE PARTY OF THE OWNER OF THE PARTY OF THE OWNER OF THE OWNER.			
							***************************************				
***************************************			************************								
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:  pH: +/- 0.1 COND.: +/- 10 % ORP: +/- NA D.O.: +/- NA TURB: +/- 10 % or = 5 TEMP.: +/- 0.5°C</td											
BOTTLES	FILLED	PRESERV	ATIVE CODE	S A-NONE	В.	- HNO3	C - H2SO4	D - NaC	)H	E - H	CL F
NUMBER	SIZE	TYPE	PRESERVA	TIVE FILT	ERED	NUMBI	ER SIZE	TYPE	PRE	SERVAT	TIVE FILTERED
1	500mL	PLASTIC	А	□ Y	IJ N						□Y □N
	500mL	PLASTIC	В	□ Y	IJ N						Y N
	60mL	PLASTIC	Α	Y	☑ N						П У П и
6	40 mL	VOA	А		☑ N						
			100	ШΥ	N	1 6		<u> </u>			
SHIPPING N	METHOD:	(005	er	DATE SHIPP	ED: <u>4</u>	1-10-	24	2 AIRBILL			
COC NUMBER: SIGNATURE: SIGNATURE:							1140	DATE S	IGNED	:	4/4/24

# → TRC

PROJECT	NAME:	DTE C	CR SQLF 18	SA24	PREPARED				CHECKED		
PROJECT	NUMBER	: 55393	1.0002.0000		BY: A	W ER	DATE//	14	BY: E	12	DATE:4/4/24
SAMPLE	D: MU	J-103	2	WELL	DIAMET	ER: 2"	✓ 4" □	6" 🗌	OTHER		
WELL MAT	ERIAL:	PVC	✓ss [	] IRON	GALVA	NIZED STE	EEL		OTHER		
SAMPLE TY	/PE:	☑ GW	□ww [	]sw 🔲	DI	LE	ACHATE		OTHER		
PURG	SING	TIME:	10 1	DATE: C//8	124		MPLE	TIME:	205	D,	ATEL/ (S/24
PURGE		PUMP	BLADDER PL	JMP (DEDICA	ATED)		<u>91</u> s	u coi	IDUCTIV		26 umhos/cm
METHOD		BAILER				ORP: _	**********	V DO:	\$	<u> </u>	g/L
DEPTH TO		277.64	T/ PVC			TURBIDI		<b>7</b> NTU			
DEPTH TO	воттом	<del>-, v.,</del>	T/ PVC			NONE		GHT	∐ MOI	DERATE	☐ VERY
WELL VOL		NM	LITERS	GALLO		TEMPERA			с отн	IER:	
VOLUME F			X LITERS	GALLO		COLOR:	Uear	<u> </u>	ODO		Wone_
COLOR: Clear ODOR: None FILTRATE (0.45 um) YES V NO											
NONE	<b>⊠</b> s⊔		BIDITY MODERATE	□ve	RY	FILTRATE QC SAMI	COLOR: NA	/MSD	FIL	TRATE OD	OR: NA
	DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: [ ] Ha collected										
TIME PURGE DH CONDUCTIVITY OPP DO TURBIDITY TEMPERATURE WATER CUMULATIVE											
IIME	RATE (ML/MIN)	(SU)	(umhos/cm)			mg/L)	(NTU)		C)	LEVEL (FEET)	PURGE VOLUME (GAL OR (5)
1140	200	7.30)	1536	55.1	0		21.3	11.9		722.64	
1145	1	6.31	1428	38.	7		0.13	17	7	1	1.0
1150		6.87	1419	454	; =	9/1	(9	12.	<u>ے۔</u> ک		2.0
1155		690	1473	U99	Æ	OZ 4	, , , , , , , , , , , , , , , , , , ,	12.			3.0
1200		6.91	1423	52.5		1	1 /7	12.		<del></del>	4.0
	$\neg V \neg$			\$7.2			1.62 207				7.0
1205		6.41	1426	61.2	0	,01	-201	12.			S.O
			******************************				en automorphism en vince e transcribuscom un ou		a returne en anyone maneto v		
							hadar ha hala dhada dhari Wada dada dha a dahaan				
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:  ph: +/- 0.1 COND.: +/- 10 % ORP: +/- NA D.O.: +/- NA TURB: +/- 10 % or = 5 TEMP.: +/- 0.5°C</td											
BOTTLES			ATIVE CODE			HNO3	C - H2SO4		NaOH	E - H	
NUMBER	SIZE	TYPE	PRESERVA	1	ERED	NUMBER	т	TYP	<del>- 1</del>	RESERVAT	
7	500mL	PLASTIC	А	□ Y	☑ N						□Y □N
1	500mL	PLASTIC	В	ΠY	☑ N						□ Y □ N
	60mL	PLASTIC	А	ΠY	☑ N					AND A THE REST OF THE PARTY OF	□ Y □ N
6	40 mL	VOA	A	□ Y	☑ N						□Y □N
<b></b>				□ Y	□ N						□ Y □ N
SHIPPING METHOD: Corice DATE SHIPPED: 4/10/24 AIRBILL NUMBER:											
COMMERCIAL PROPERTY AND ADMINISTRATION OF THE PARTY.	AND THE PROPERTY AND ADMINISTRATION OF THE					1	l _				119124
	COC NUMBER: SIGNATURE: A. Way DATE SIGNED: 9/9/29										

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PROJECT NAME: DTE CCR SQLF 1SA2	24	PREPARED		CHECKED					
PROJECT NUMBER: 553931.0002.0000	BY:	AW ER DATEL/18	>// BY:	E/L	DATE: 4/1/24				
SAMPLE ID: MW-107	WELL DIAME	TER: 2" 4"	6" OTH	IER					
and the second s	RON GALV	ANIZED STEEL	□ отн	IER					
SAMPLE TYPE:	SW 🗌 DI	LEACHATE	□ отн	IER					
PURGING TIME: 1235 DAT	E418124	SAMPLE		55	DATE4/8/24				
PURGE ☑ PUMP BLADDER PUMF METHOD: ☐ BAILER	P (DEDICATED)	ED) PH: 686 SU CONDUCTIVITY: 35776 umhos/c							
DEPTH TO WATER: \$\frac{155.20}{25.20}\text{T/ PVC}	· · · · · · · · · · · · · · · · · · ·	TURBIDITY: 7.5	NTU		mg/L				
DEPTH TO BOTTOM		<b>⊣</b> ⊶ ====	GHT	MODERATI	E VERY				
WELL VOLUME: NM LITERS	GALLONS	TEMPERATURE:	<b>Z.¹</b> _°c	OTHER:	M-4				
VOLUME REMOVED: 6 D LITERS	GALLONS	COLOR: LIGAT		ODOR:	Strono				
	R: Strong	FILTRATE (0.45 um)	YES	√ NO					
TURBIDITY		FILTRATE COLOR: NA		<del>'</del>	ODOR: NA				
NONE SLIGHT MODERATE	VERY		/MSD	∐ DUP-					
DISPOSAL METHOD: GROUND DRUM: OTHER COMMENTS: LL Ha collected									
TIME PURGE PH CONDUCTIVITY	ORP	D.O. TURBIDITY	TEMPERATI	JRE WATE	L PURGE VOLUME				
(ML/MIN) (SU) (umhos/cm)	(mV)	(mg/L) (.36)TU)	(°C)	(FEE					
1235 -200 6.18 36727	147.7	540 -12.5	12.	7 1.30	A INITIAL				
1240 6.58 35932	159.4 1	1.3 1.17	12.3	153.	20 1-5				
1245 6.83 35626	-249.7 1	.25 1.12	12.1		2.0				
1250 6.85 35513	-761.6 1	1.25 2.57	12.2		4.5				
		.25 2.51	12.1	7/	6.0				
	****								
		a house and consideration of the constant of t	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Paragraphic and Control of the Contr					
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:									
pH: +/- 0.1 COND.: +/- 10 % ORP: +/- NA D.O.: +/- NA TURB: +/- 10 % or = 5 TEMP.: +/- 0.5°C</td									
BOTTLES FILLED PRESERVATIVE CODES /	A - NONE B	s - HNO3 C - H2SO4	D - NaO	H E-	- HCL F				
NUMBER SIZE TYPE PRESERVATIV	E FILTERED	NUMBER SIZE	TYPE	PRESER\	ATIVE FILTERED				
500mL PLASTIC A					N N				
) 500mL PLASTIC B	TY V				□Y □ N				
) 60mL PLASTIC A	YV	1			□Y □N				
6 40 mL VOA A		1			□ Y □ N				
		1			□ Y □ N				
SHIPPING METHOD: Lourier DA	SHIPPING METHOD: Lourier DATE SHIPPED: 4/10/24 AIRBILL NUMBER:								
COC NUMBER: SIGNATURE: A. While DATE SIGNED: 419124									

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PROJECT NAME:	DTE C	CR SQLF 19	6A24		PRE	EPARED ,	CHECKED					
PROJECT NUMBE	R: 55393	1.0002.0000		BY: A	AW ER	DATE:4	7 Y BY:	ER	DATE:4/4/24			
SAMPLE ID: M	20-62		WELL	DIAMET	ER:	2" 🗸 4" 🗌	6" OT	HER				
WELL MATERIAL:	☐ PVC	✓ss [	] IRON 🔲	GALVA	NIZED S	TEEL	ОТ	HER	PPENALPS - Handwood (Manufarines) side limit and the same amounts, reported the great beauty against and the same and the			
SAMPLE TYPE:	☑ GW	□ ww [	] sw 🛚	DI		_EACHATE	ОТ	HER				
PURGING	TIME: /	318	ATE:4/8/	24	SA	AMPLE	TIME: [3		DATE: 4/8/2 1			
PURGE ✓ METHOD:		BLADDER PL	IMP (DEDICA	ATED)				CTIVITY: 2				
L	BAILER						V DO:	1,55	mg/L			
DEPTH TO WATER:		T/ PVC			1 .	оту: <u>@9</u> 5						
DEPTH TO BOTTOM	1 11 1	T/ PVC			X NONE SLIGHT MODERATE VERY							
WELL VOLUME:	MM	LITERS	GALLO	NS	TEMPE		2.3 <sub>°C</sub>	OTHER:	<b></b>			
VOLUME REMOVED	4.0	LITERS	GALLO	/	COLOR	: Clear		ODOR:	Moderate			
COLOR: C		0	DOR: Sl'g	ht.	FILTRA	TE (0.45 um)	YES	√ NO				
		BIDITY				E COLOR: NA		·- <u>-</u>	ODOR: NA			
	.IGHT ☐	MODERATE	VE OTHER		QC SAI	<del></del>	/MSD	∐ DUP-				
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: L/ HG												
TIME PURGE RATE	6.7-76 (SU)	CONDUCTIVIT	Y ORP		D.O.	TURBIDITY	TEMPERAT	LEVE	EL PURGE VOLUME			
(ML/MIN)	``I``	(umhos/cm)	(mV)		mg/L)	(NTU)	(°C)	(FEE				
1318 200	7.17	2966	-120.9	( 4	.12	୬.¢∞	13.3	153				
123	6.93	2447	-1.19.9	1	.5	1.09	12.3		1.0			
128	7.06	2437	-252-	2 (	.56	1,44	12.2		2.0			
133	7.06	2430	-266.	3 1.	54	1.25	12.2		2.0			
1338	7.05	2450	-272.	=   :	.55	0.93	12.3	-1/	4.0			
						and the second second						
						Parametan (19 epoly policy da a group region remains de	Bert Talahan seringa per percakan Tropes e sering		And to the Control of			
	<del>                                     </del>					that propriesessore encountries are make at attention and						
	-											
NOTE: STAB pH: +/- 0.1	ILIZATION 1 COND.: +/-		PLETE WHEN P: +/- NA		CESSIVE +/- NA	E <b>READINGS</b> / -/- TURB: +		THE FOLLO	WING LIMITS: TEMP.: +/- 0.5°C			
BOTTLES FILLED					HNO3	C - H2SO4			- HCL F			
BOTTLES FILLED PRESERVATIVE CODES A - NONE  NUMBER SIZE TYPE PRESERVATIVE FILTERED					NUMBE	<del>- 1</del>	TYPE	PRESER				
500mL	PLASTIC	Α		V N					□Y □N			
500mL	PLASTIC	В		N [S					□ Y □ N			
60mL	PLASTIC	A	ΠY	✓ N					□Y □N			
40 mL	VOA	A	- Y	☑ N					□Y □N			
		The state and the set and the set of process and the set	Y	N	<u> </u>				□ Y □ N			
SHIPPING METHOD	Corsi		DATE SHIPP	ED: 4	10/	24	AIRBILL	NUMBER:				
SHIPPING METHOD: COUNTIES DATE SHIPPING NUMBER: SIGNATURE:					4. W.	lus		SIGNED:	4/9/24			

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PROJECT NAME: DTE CCR SQLF 1SA24				PREPARED CHE		CHEC	KED		
PROJECT NUMBER: 553931.0002.0000 BY				W ER	DATE//8	12/	BY: ' <b>E</b>	r	DATE:4/11/24
SAMPLE ID:	V-106	WELL	DIAMET	ER: 2	" 🗸 4" 🗌	6"	OTHER		
WELL MATERIAL:	☐ PVC ☑ SS	☐ IRON ☐	GALVAI	NIZED ST	EEL		OTHER	n <sub>v</sub> enga pangga	
SAMPLE TYPE:	☑ GW 🔲 W	w 🗌 sw 🗀	DI		EACHATE		OTHER		
PURGING	TIME: 1402	DATE	24	SA	MPLE	TIME:	1422		ATE: 4/18/24
PURGE METHOD:	] PUMP BLADI ] BAILER	DER PUMP (DEDICA	ATED)		<u>7.03</u> si 277.1 m		NDUCTIVI		umhos/cm
DEPTH TO WATER		· ·			TY: 0.42			- 1110	/ L
DEPTH TO BOTTO	1 1) 4 4			NONE		_		DERATE	☐ VERY
	·· <u></u> ·· · · ·	ERS GALLO	ONIC		ATURE: <b>/2.</b>			**********************************	
WELL VOLUME:	-	—							1010010
VOLUME REMOVE				COLOR:			ODC		Coderate
COLOR:	!ear	_ odor: <u><b>No)</b></u>			E (0.45 um)	∐ YES		The second secon	
NONE S	TURBIDITY LIGHT MODE		RY	FILTRATE QC SAM	COLOR: NA	MSD		RATE ODO	DR: NA
DISPOSAL METHO	D: GROUND	DRUM 🗌 OTHE	R	COMME	NTS:				
TIME PURGE RATE	PH COND	JCTIVITY ORP		D.O.	TURBIDITY	TEMPE	RATURE	WATER LEVEL	CUMULATIVE PURGE VOLUME
L (ML/MIN)	(SU) (umh	ios/cm) (mV)	(	mg/L)	(NTU)	('	'C)	(FEET)	(GAL OR
MOL ZOO	682 23	8523.8	> 3	62 C	5.39	13.	4	112.80	NITIAL
1407	7	35 127.	7 1.	43 (	9,04	12.	9		1.\$0
1412	7.03 23	37 243.	3 1.	51	0.68	12.	7		3,0
1417	7.04 23	37 -263.	8 1.		0.86	12.	5		4.5
1422		28 - 27			0.42	12.		$\bigvee$	60
					***************************************		ryandiri independenti anno erro erro erro erro		
								***************************************	
	-							er annara surversas anaracementas a	
							n toor day right through a contraders which		
NOTE: STAE pH: +/- 0.1	BILIZATION TEST IS COND.: +/- 10 %	ORP: +/- NA		CESSIVE +/- NA	READINGS A TURB: +/-		HIN THE I		NG LIMITS: TEMP.: +/- 0.5°C
BOTTLES FILLED	PRESERVATIVE	CODES A- NONE		HNO3	C - H2SO4		NaOH		CL F
NUMBER SIZE	TYPE PRES	SERVATIVE FILT	ERED	NUMBER		TYP		ESERVAT	<del></del>
<b>5</b> 00mL	PLASTIC	A 🔲 Y	☑ N						□Y □N
500mL	PLASTIC	в Гү	☑ N					mannes, en en jagennes (en e. e.)	□Y □N
60mL	PLASTIC	A 🔲 Y	☑ N					in de monte automatica de mandra de man	□Y □N
40 mL	VOA	A 🖂 Y	IJ N					al or I can be received a subfrage brus o	П Т П И
		Y	N				no established	i debased and another analysis of the analysis of the	□ Y □ N
SHIPPING METHOD	couriet	DATE SHIPP	ED: 4	110/25		AIR	BILL NUM	BER:	
COC NUMBER:		SIGNATURE	A	. who	N	DAT	E SIGNE	D: 4	19624

## → TRC

PROJECT	NAME:	DTE C	CR SQLF 1S	A24		PRE	PARED			CHEC	KED
PROJECT	NUMBER	R: 55393	1.0002.0000		BY: A	AW ER	DATE/A	121	BY: E/C	-	DATE: 4/4/24
SAMPLE I	D: MW	-108A		WELL	DIAMET	ER:	2" 🗸 4" 🗌	6"	OTHER		
WELL MAT	ERIAL:	PVC	✓ ss	IRON 🗀	GALVA	NIZED S	TEEL		OTHER		
SAMPLE T	YPE:	☑ GW	□ww □	sw 🗌	DI	<u></u>	EACHATE		OTHER		
PURC	SING	TIME	05 0	ATE:4/19	174	<u></u>	AMPLE	TIME:	1830	DA	TE4/19/24
PURGE METHOD	. —	PUMP BAILER	BLADDER PU	MP (DEDICA	ATED)		<i>-44.</i> 7 n	1V DO:	19	TY: <u>44</u> <b>Z_</b> mg	
DEPTH TO	WATER:	\$1.43	T/ PVC			TURBIC	OITY: O.7	P NTL			THE THE CONTRACT CONTRACT OF CONTRACT C
DEPTH TO		NM	T/ PVC			NON 💢		IGHT		DERATE	☐ VERY
WELL VOL	UME:	MW	LITERS	GALLO	NS.	TEMPE	RATURE: [	4	°С ОТЬ	IER:	
VOLUME F	REMOVED:	7.5	X LITERS	GALLO	NS	COLOR	: Clear		ODO	DR:	None
COLOR:	L	leac	0	DOR: NON	2	FILTRA	TE (0.45 um)	YES	; <u> </u>	NO	
			BIDITY			FILTRAT	E COLOR: NA		FIL	TRATE ODC	R: NA
NONE	<b>∑</b> 's⊔		MODERATE	VE		QC SAI		MSD		DUP-	
DISPOSAL	METHOD:	✓ GROU	ND DRUM	1 U OTHER	₹	СОММ	ENTS: [[	<u>Ha</u>	colla	tel	
TIME	PURGE RATE (ML/MIN)	6.7570	CONDUCTIVITY (umhos/cm)	ORP (mV)		D.O. mg/L)	TURBIDITY (NTU)		RATURE	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR
20805	400	5.66	44/7	108.3		- 29	11 6	11	<del>"</del> 7	51.43	INITIAL
080		6.03	4576	31.7	1	07	0.27		4		1.5
0815		6.60	4460	-36.5		98	<u>~</u> ;77	11.4	)	CONTRACTOR CONTRACTOR CONTRACTOR	30
0820		(2.74	4414	-480		96	175	110			45
2825		( 78	4414	-47.	. ,		Or86	116	./		6.0
0880	$ \psi$	779	4422	-44.7		1	0.79	114	7	V	7 2
	опираличной стори желен от да оси	7 يو	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7761	·	/	<u> </u>	1101	######################################		(-«3
	***************************************						neens and all an experient temperature frances (and a series				
			,						Transferration Communicate State Communicate Communica		
NO	TE: STABII	LIZATION 1	EST IS COMP	LETE WHEN	N 3 SUC	CESSIVE	E READINGS .	ARE WIT	HIN THE	FOLLOWIN	IG LIMITS:
pH: +/-	0.1	COND.: +/-	<b>10</b> % ORF	P: +/- NA	<b>D</b> .O.:	+/- NA	TURB: +/-	10 %	or =</td <td>5</td> <td>TEMP.: +/- 0.5°C</td>	5	TEMP.: +/- 0.5°C
BOTTLES	S FILLED	PRESERV	ATIVE CODES	A - NONE	В-	· HNO3	C - H2SO	4 D-	NaOH	E - HC	CL F
NUMBER	SIZE	TYPE	PRESERVAT	TIVE FILT	ERED	NUMBE	ER SIZE	TYP	E PR	ESERVATI	IVE FILTERED
1	500mL	PLASTIC	А	□ Y	N						□Y □N
j	500mL	PLASTIC	В	□ Y	N						☐ Y ☐ N
	60mL	PLASTIC	А	ΠY	☑ N						□Y □N
6	40 mL	VOA	А	□ Y	☑ N					Consumer or makeling consistent of the break	N N
				□ Y	□ N						□Y □N
SHIPPING	METHOD:	Lour	iet 1	DATE SHIPP	ED: 4	1101	24	AIR	BILL NUM	IBER:	
COC NUMI	BER:			SIGNATURE:		A.v	las	_ DA	TE SIGNE	D: <u>4</u>	1/9/24

<b>&lt;&gt;</b>	TR	C
	H H #	_

_										
PROJECT NAM	E: DTE C	CR SQLF 19	SA24		PREPARED CHECK			KED		
PROJECT NUM	BER: 55393	1.0002.0000		BY: A	W ER	DATE	ILH BY	(: E/C	_	DATE: 4/n/24
SAMPLE ID:	Luarry	Sump	WELL	DIAMET	ER: 🗌 2	2" 🗸 4" 🗌	6" C	THER		
WELL MATERIAL		√ss [	] IRON [	GALVA	NIZED ST	EEL	□ c	THER		
SAMPLE TYPE:	☑ GW	□ww □	]sw 🗆	DI	L	EACHATE		THER		A CONTRACTOR OF THE PROPERTY O
PURGING	TIME:	E	DATE: 4/9	4	SA	MPLE	TIME:	40	DA	ATE:4/9/24
PURGE METHOD:	✓ PUMP	BLADDER PU	JMP (DEDICA	(TED)		7 <u>.05</u> s 92.7 m		DUCTIVI	TY: <u>8</u>	*******************
DEPTH TO WAT	BAILER	T/ BVC				1TY: OVE	NTU		67 mg	/L
DEPTH TO BOT		T/ PVC			NON		NIO GHT [	⊐ мог	DERATE	<b>⊠</b> VERY
WELL VOLUME:	1 O W	LITERS	☐ GALLO	NS			2. <b>7</b> °c			Z VEIVI
VOLUME REMO	/EAT	LITERS	GALLO			Kry Uc		ODC		Moderate
COLOR:	<u></u>	· <u> </u>	DDOR:			E (0.45 um)	YES	[7]		- wacie
302011	THE	BIDITY				E COLOR: NA			RATE ODO	DP: NA
NONE [		MODERATE	U VE	RY		1PLE: MS			DUP-	(15)
DISPOSAL MET	HOD: GROU	ND DRUI	и 🗌 отнеғ	2	COMME	NTS:				
TIME PUR	I PH	CONDUCTIVIT	Y ORP		D.O.	TURBIDITY	TEMPERA	ATURE	WATER	CUMULATIVE
RA1		(umhos/cm)	(mV)	(	mg/L)	(NTU)	(°C	)	LEVEL (FEET)	PURGE VOLUME (GAL OR L)
910 M	V 7.05	8665	-92.	7 7.	691	9VeC	12.	7	NA	INITIAL
						<i></i>				
***************************************					and an all was as you as a second of the second	- Aveni versamentamento-atarquinapea es		***************		
		Million and the Colombia Bull's Geological (activity) and notice activity	t Jacobs se de la company			r ndungu rang na manasandah halamada sahi indi dan paggia nggang (ngu)		******************		
							***************************************		* ************************************	
l										
						Process Asserts 1900 and process or a serve		errormen of a set to be described as an amount	agur h ahliad ya sar gama an sarangan waga ayen	
ļ								i certhol a reen another	*********************	
						n, dental to her til defension skullet og styrrånskrivagna re				
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							<u> </u>
.										
NOTE: S	FABILIZATION	TEST IS COM	PLETE WHEN	1 3 SUC	CESSIVE	READINGS A	ARE WITH	IN THE I	FOLLOWIN	IG LIMITS:
pH: +/- <b>0.1</b>	COND.: +/-	10 % OR	P: +/- <b>NA</b>	D.O.:	+/- <b>NA</b>	TURB: +/-	10 %	or =</td <td>5</td> <td>TEMP.: +/- 0.5°C</td>	5	TEMP.: +/- 0.5°C
BOTTLES FILL	ED PRESERV	ATIVE CODE	S A - NONE	В-	HNO3	C - H2SO4	D - Na	аОН	E - HO	CL F
NUMBER SIZ	E TYPE	PRESERVA	TIVE FILT	ERED	NUMBE	R SIZE	TYPE	PR	ESERVAT	IVE FILTERED
500	mL PLASTIC	A	□ Y	IJ N						□Y □N
500	mL PLASTIC	В	□ Y	☑ N						□Y □N
<b>)</b> 60r	nL PLASTIC	А	<b>□</b> Y	☑ N						□Y □N
6 401	nL VOA	A	ΠY	IJ N						□Y □N
	ACCOUNTS NAMED OF STREET AND STREET AND STREET		ΠY	□N	T				************************	□Y □N
SHIPPING METH	OD: LOUR	25	DATE SHIPPI	ED: 4	1101	24	AIRBI	LL NUM	BER:	
COC NUMBER:			SIGNATURE:		A. W.	~_^	DATE	SIGNE	D: <u></u>	119/24

<b>&lt;&gt;</b>	RC
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PROJECT NAME:	DTE C	CR SQLF 1SA	24		PRE	PARED		CHE	CKED
PROJECT NUMBE	R: 55393	1.0002.0000		BY: /	AW ER	DATEC/K	1/24 BY:	EIL	DATE:4/11/21
SAMPLE ID:	)accy	Discharge	WELL	DIAMET	ER:  2		6" OTH	IER	
WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL					EEL	□ от⊦	IER		
SAMPLE TYPE:	☑ GW	□ww □	sw 🗌	DI	LI	EACHATE	□ отн	IER	
PURGING	TIME:	DA	TE:/	$\angle$		MPLE	TIME 09		DATE: 4/9/4/
PURGE METHOD:	] PUMP ] BAILER	BLADDER PUM	IP (DEDICA	ATED)	PH:	<b>7.55</b> s 630 m	U CONDUC	11.49 n	umhos/cm
DEPTH TO WATER	:	T/ Pye			TURBID	<sub>ITY:</sub> 3/,2	NTU		
DEPTH TO BOTTO	м	1/ PVC			П иои	E 🗌 SLI	GHT 🔀	MODERATE	□ VERY
WELL VOLUME:		LITERS	GALLC	NS	TEMPER	ATURE: <u>/2</u>	.&>°C	OTHER:	
VOLUME REMOVE	<i>-</i>	LITERS	GALLO	NS		Very Cla		ODOR:	Moderne
COLOR:		OD	OR:		FILTRAT	E (0.45 um)	YES	√ NO	
	TUR	BIDITY			FILTRATE	COLOR: NA	and distributed to contribute the description for a contribute and a contribute the description of the contribute and a contr	FILTRATE OF	OOR: NA
NONE S	_	MODERATE	U VE	RY	QC SAM		/MSD	DUP-	
DISPOSAL METHO	D: GROUI	ND 🗌 DRUM	OTHE	₹	COMME	NTS:			
TIME PURGE RATE	PH	CONDUCTIVITY	ORP		D.O.	TURBIDITY	TEMPERATU	LEVEL	PURGE VOLUME
0940 UM	7.55	(umhos/cm)	63. (		mg/L)	31. Z	(°C) 17. <i>f</i>	(FEET)	(GAL OR L) INITIAL
		·							
pH: +/- 0.1	COND.: +/-	TEST IS COMPL.  10 % ORP:	+/- NA		+/- NA	READINGS A		THE FOLLOW	ING LIMITS: TEMP.: +/- 0.5°C
BOTTLES FILLED	PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - NaOl	1 E-F	ICL F
NUMBER SIZE	TYPE	PRESERVATI	√E FILT	ERED	NUMBE	R SIZE	TYPE	PRESERVA	TIVE FILTERED
500mL	PLASTIC	А	□ Y	☑ N					□Y □N
500mL	PLASTIC	В	ΠY	☑ N	There is no management				□ Y □ N
60mL	PLASTIC	Α	□Y	☑ N			THE RESERVE OF THE PROPERTY OF	A TOTAL AND THE TOTAL AND THE TOTAL TOTAL PROPERTY.	OY ON
40 mL	VOA	A	□ Y □ Y	☑ N				CORE AND AND ADDRESS OF THE PARK SOUTH AND THE	
SHIPPING METHOD	: נסטרו	er DA	TE SHIPPI	ED: 4	1/10	174	AIRBILL	· NUMBER:	
COC NUMBER:	-	SIC	GNATURE:		A. 1	thy	DATE SI	GNED:	419124

<b>&lt;&gt;</b>	TRC	
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PROJECT NAME: DTE CCR SQLF	1SA24	PREPARED	CHECKED	
PROJECT NUMBER: 553931.0002.000	0 BY:	AW ER DATE	1121 BY:	E/L DATE: 4/11/24
SAMPLE ID: MW-104	WELL DIAME	ETER: 2"  4"	6"	ER
WELL MATERIAL: ☐ PVC ☑ SS	☐·IRON ☐ GALV	ANIZED STEEL	ОТНЕ	ER .
SAMPLE TYPE:	SW DI	LEACHATE	ОТНЕ	R
PURGING TIME: 1002	DATE 19124	SAMPLE	TIME: 1017	DATE 1914
METHOD:	PUMP (DEDICATED)	1=0/1		TIVITY: ZXOZ umhos/cm
DEPTH TO WATER: 1/8.50 T/ PVC			DO: _	1.06 mg/L
				MODERATE  VERY
DEPTH TO BOTTOM NM T/ PVC WELL VOLUME: NM T LITERS	GALLONS		-	
		, =		OTHER:
, , , , , , , , , , , , , , , , , , , ,	ODOR: None	color: <u>Lleas</u>		odor: Nonce
color: <u>Clear</u>	ODOR: NOTE	<u> </u>		✓ NO
TURBIDITY    ▼ NONE	- Dyspy	FILTRATE COLOR: NA		FILTRATE ODOR: NA
		<del></del>	/MSD [	DUP-
DISPOSAL METHOD: GROUND DR	UM U OTHER	COMMENTS:		
TIME PURGE PH CONDUCTIV	TTY ORP	D.O. TURBIDITY	TEMPERATUR	RE WATER CUMULATIVE LEVEL PURGE VOLUME
(ML/MIN) (SU) (umhos/cr	n) (mV)	( mg/L) (NTU)	(°C)	(FEET) (GAL OF(B)
1002 300 7.28 2370	-5.2	0.709.13	12.83	118.50 INITIAL
inc. 7 / 1 45 2761	-128 /	194 1.38	17.3	1 1.5
1012 703 229	-170.6	1.87 1.60	12.2	3.0
1017 \$ 7.03 2302		1.84 1.57	12.3	V 9.5
1011 4 1.03 2.50 2	107.7	1.06 1.32	16.3	V 9,3
			( AT TO 1 MOVE 1 MATERIAL TO 1 MOVE 1 MATERIAL TO 1 MATERI	der production and the state of
			Marine and a Vision of Plant ( p. V. d do vide vide vide and	
		·		
				\$2000 TAX \$2000
NOTE: STABILIZATION TEST IS CO	MPLETE WHEN 3 SII	ICCESSIVE READINGS	RF WITHIN TI	HE FOLLOWING LIMITS:
		D.: +/- <b>NA</b> TURB: +/-		= 5 TEMP.: +/- 0.5°C</td
BOTTLES FILLED PRESERVATIVE COD	ES A - NONE E	3 - HNO3 C - H2SO4	D - NaOH	E-HCL F-
NUMBER SIZE TYPE PRESERV			TYPE	PRESERVATIVE FILTERED
500mL PLASTIC A	V   V   C	v l		□Y □ N
500mL PLASTIC B		v l		TY N
60mL PLASTIC A				
/ 40 ml				
6 40 IIIL VOA A		<u> </u>	l ·	
			1 1	
SHIPPING METHOD: LOUSIES	DATE SHIPPED:	4/10/24	AIRBILL N	IUMBER:
COC NUMBER:	SIGNATURE:	A. Wley	DATE SIG	SNED: 4/9/24

## **Eurofins Cleveland**

180 S. Van Buren Avenue Barberton, OH 44203

WICTICAN
190 Chain of Custody Record

& curofins | Environment Testing

Phone: 330-497-9396 Fax: 330-497-0772			Confer Tracking No(s):	JOU No.
Client Information	Sampler /1. Whale / F. R.	C. y.e.her Brooks, Kris M	1000	240-119185-31882.1
Client Contact: Jacob Krenz	2-92	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin. Mi	Page 1 of
Company. TRC Environmental Corporation.	PWSID:	Analysis R	Requested	Dreservation Codes:
Address: 1540 Eisenhower Place	Due Date Requested: 소년하게 있다			ion coa
City. Ann Arbor	TAT Requested (days):			C - Zn Acetate P - Na2O4S D - Nitric Acid Nacoca
State, Zip: MI, 48108-7080	Compliance Project: A Yes A No			E-NaHSO4 R-NaZS2O3 F-MeOH S-HZSO4
Phone: 313-971-7080(Tel) 313-971-9022(Fax)	199408 - 2023 553931.6003	No)		nchlor corbic Acid
Email: JKrenz@trccompanies.com	wo# 518728.0002 - 500.0002	(O)	1481418012	J-Di Water W-pH 4-5 K-EDTA
Project Name: CCR DTF Sibley Quarry	Project #: 24016805		CASSISSAC	>
Site:	SSOW#:	SD(N DS	SERVE POR	Other:
renority et i	Sample	Matrix September   Matrix Wewster, September   Matrix Orwante/oil, September   Matrix Sep	Total Numbe	Special Instructions/Note:
Sample Identification	© Breselv	X N D	X	
WW-101	4/18/14 1050 6	water WXXX		
MW-102	418/24 1205 G	water V N X X		
MW-103	4/18/24 1338 6	Water ZXXX		
MW-104	4/9/24/1017 6	water UN XXX		
MW-105	418th SAM G	water WUXXX		
MW-106	418124 WEZ G	water VVXX		
WW-107	4/18/124/1255/6	water NNXXX		
MW-108A	0880	water NNXXX		
QUARRY SUMP	6/ 0160 Helph	water MNXXX		
QUARRY DISHCARGE	1020	water NWXXX		
DUP-01	I	water VMXXX		
e Hazard Identification	Poison B 🗘 Unknown 🗀 Radiological	Sample Disposal ( A fee	may be assessed if samples are retained longer  Disposal By Lab Archive For	tained longer than 1 month) Archive For Months
Other (specify)	ジブ	Special Ins		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 14/21/ 1777	Company Received by:	Date/Time:	Company
Relinguished-by.		Company Received by:	Date/Time:	Company
Relinquished by,	Date/fime	Company Received by:	Date/Time:	Company
Custody Seals Intact:   Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	er Remarks:	
Δ Yes Δ NO				



PROJECT NAME:	DTE CCR SQLF 2SA24
PROJECT NUMBER:	553931.0002.0000
PROJECT MANAGER:	Vincent Buening
SITE LOCATION:	803 Fort Street Trenton MI, 48183
DATES OF FIELDWORK:	10/7/2024 TO 10/8/2024
PURPOSE OF FIELDWORK:	Semiannual CCR Event
	Javier Jasso
WORK PERFORMED BY:	

SIGNED

DA

10/9/24

CHECKED BY DATE



### **GENERAL NOTES**

PROJECT NAME:	DTE CCR SQLF 2SA	24 DATI	= 15 15 15 15 15	TIME ARRIVED: ( 4 ) ( )
			101/10	TIME LEFT: (400
PROJECT NUMBER:	553931.0002.0	0000 AUTI	TUK: JJ	THINE LEFT: 1400
		WEAT	HED	
TEMPERATURE, F. P.	a °F WIND:			NOUTY A 10 / 1
TEMPERATURE: <u>ょ</u>	°F WIND:	IO ME	<u>'H</u> VIS	SIBILITY: OUR-COU
		ORK / SAMPLIN	IG PERFORMED	•
water	eves_			
wells SA	moled = Mu i	DEA, DUR	104 mw 104	, Ma - 10/Ma 107
MW-109	5, MW-10	3		, mw - 101, mw 107
	•			
PRO	BLEMS ENCOUNTERE	D	CORRE	CTIVE ACTION TAKEN
		COMMUN	ICATION	
NAME	REPRESENTING		SUBJECT / (	COMMENTS
Vincent Buening	TRC	Project Mana	ager / Updates	
Bob Haske	DTE	Site Contact	734-716-3142 (Cell)	
	INVESTI	CATION DEBIN	ED WASTE SUMMAR	
WASTE MATRIX	QUANTITY	GATION DEIGN		MENTS
GW	NM	To Ground		
		10 010 0110		
<u></u>	<u> </u>	1		
	16 18/24		The	200/ 10/9/24
SIGNED	(0)	DATE	CHECKED BY	DATE



### **GENERAL NOTES**

PROJECT NAME:	DTE CCR SQLF 2SA2	4 DATE:	10/8/24	TIME ARRIVED
PROJECT NUMBER:	553931.0002.00			TIME LEFT: 0950
<u></u>		1ATE A 74 II		
1		WEATH		
TEMPERATURE: 4	°F WIND:	[О мрн	٠٧	ISIBILITY: OUL COUL
		RK / SAMPLING		
wells >	14m RC W	lu-10	Co Will	102 Quarry Sun
Quarry	Discharg	Ll		
				,
PRO	BLEMS ENCOUNTERED		CORF	RECTIVE ACTION TAKEN
				· · · · · · · · · · · · · · · · · · ·
		COMMUNIC	PATION	
NAME	REPRESENTING	COMMUNIC		/ COMMENTS
Vincent Buening	TRC	Project Manag	er / Updates	
Bob Haske	DTE	1	34-716-3142 (Cell)	
		-		
	INVESTIG	SATION DERIVE	D WASTE SUMMAI	RY
WASTE MATRIX	QUANTITY			MMENTS
GW	NM	To Ground		
	1. (21)			16h
	10 9124		le f	10/9/24
SIGNED `		DATE	CHECKEDBY	' DATE



### **EQUIPMENT SUMMARY**

PROJECT NAME:	DTE CCR SQLF 2SA24	SAMPLER NAME: Javier Jasso
PROJECT NO.:	553931.0002.0000	OAWI LLIVIVANL. Javiel Jassu
MATERIEVE MEAGU	IDENTITY COLUMNIA	
WATER LEVEL MEASU	REMENTS COLLECTED WITH:	
HER	ON DIPPER-T	PROJECT DEDICATED
NAME AND MODEL OF IN	STRUMENT	SERIAL NUMBER (IF APPLICABLE)
PRODUCT LEVEL MEA	SUREMENTS COLLECTED WITH	l:
	NA	NA
NAME AND MODEL OF IN	STRUMENT	SERIAL NUMBER (IF APPLICABLE)
DEPTH TO BOTTOM O	F WELL MEASUREMENTS COLL	ECTED WITH:
	NA	NA
NAME AND MODEL OF IN	STRUMENT	SERIAL NUMBER (IF APPLICABLE)
PURGING METHOD		
BLADDER	PUMP (DEDICATED)	PROJECT DEDICATED
NAME AND MODEL OF P	UMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)
SAMPLING METHOD		
BLADDER	PUMP (DEDICATED)	PROJECT DEDICATED
NAME AND MODEL OF P	UMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)
	NA	NA
NAME AND MODEL OF FI	LTERATION DEVICE	FILTER TYPE AND SIZE
DEDICA	TED POLY TUBING	✓ LOW-FLOW SAMPLING EVENT
TUBING TYPE	TED   OE1 TODING	- EOW 1 EOW 0/11/11 EING EVENT
PURGE WATER DISPO	ACAL METHOD	
PURGE WATER DISPO	SAL WETHOD	
☑ GROUND	☐ DRUM ☐ POTW	POLYTANK OTHER
DECONTAMINATION A	ND FIELD BLANK WATER SOUR	RCE
ST	ORE BOUGHT	STORE BOUGHT
POTABLE WATER SOUR	CE	DI WATER SOURCE
	16 alsu	SI IMIT Walate
SIGNED	DATE	CHECKED BY DATE
	DATE	

## → TRC

### WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE CCR SQLF 2SA24			MODEL: YSI Pr	oDS9	3	SAMPLER:	JJ	
PROJECT NO.:	553931.0002.0000				RC		DATE: 16 17	,	_
PROJECT NO	333931.0002.0000			SERIAL#. I	KC /	n2	DAIL 16 19	134	
	CALIBRATION CHECK						CTIVITY CALIBF	RATION C	HECK
pH 7	pH 4 / 10			1		READING	TEMPERATURE		
(LOT #)36.369/4	(LOT #): LIGO 1317 (EXP. DATE): 4/24	CAL. RANGE	TIME			5/159	(80E) OH(O)	CAL. RANGE	TIME
(EXP. DATE): / C/ ) F POST-CAL. READING/STANDARD	POST-CAL. READING / STANDARD	IVAIIGE		1 1		S / / ` EADING / STANDARD	(°CELSIUS)	IVANGE	
	40 140	WITHIN	08 <b>a</b> d	(		1 1304	.30	WITHIN	chiet
700 / 100	12 , 12	RANGE WITHIN	<u>DB GD</u>	''	,	/ [] U	30	TRANGE	Cenar
	,	RANGE WITHIN				,		RANGE WITHIN	+
	1	RANGE				/		☐ RANGE	<u> </u>
1		WITHIN RANGE						WITHIN RANGE	
	CALIBRATION CHECK			. —			IBRATION CHEC	K	1
CAL READING	TEMPERATURE				CAL.	READING	TEMPERATURE		
(LOT #):333 (CG3/) (EXP. DATE): 6/36	(°CELSIUS)	CAL. RANGE	TIME				(°CELSIUS)	CAL.	TIME
POST-CAL. READING / STANDARD				POST-C	AL. REA	ADING /SATURATED AIR	( 0223.30)		1
230 /230	20	WITHIN	OH GO	9.	<u>a (</u>	19.31	18	WITHI	
	<u> </u>	☐ WITHIN	() to the	"	•	1		☐ WITHI	1
<u>'</u>		RANGE WITHIN		-		. '		RANGI	
		RANGE WITHIN				,		RANGI	=
/		RANGE		<u> </u>				RANG	
***************************************	ITY CALIBRATION CHEC	K	1	1 🗀	ITOO	AL COLUTION	COMMENTS	SOLUTION	1.(0)
	READING (NTU)			A'		AL SOLUTION	✓ STANDARD		
(EXP. DATE):	(EXP. DATE):	CAL. RANGE	TIME	(EXP. D			LIST LOT NUMBERS A UNDER CALIE		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD	†			<u>.</u>	ED PARAMETERS	CALIBRATI	ON RANGES	(1)
0/0	1	WITHIN	10(61)		Ŀ	oH	pH: +/- 0.2 S.	U.	
100 / 14/	1	WITHIN	- C		(	COND	COND: +/- 1% O	F CAL. STA	NDARD
100 100	,	WITHIN	9		(	ORP	ORP: +/- 25 m\	,	
	. ,	RANGE WITHIN		_				•	
	1	RANGE		]   [		0.0.			
	NOTES			,   🖰	1	TURB	TURB: +/- 5% O	F CAL. STA	NDARD
					_		(1) CALIBRATION RAI		
					_		THE MODEL OF THE	WATER QUA	LITY METER
				-			<u> </u>		
				<u>;</u>					
P	ROBLEMS ENCOUNTERED				2	CORRECT	IVE ACTIONS		
		-							
							·		
		2						,	***
	16/9/20	1			/	///	MI	101	9/24
SIGNED		DATE	-	G	CHEC	KED B			DATE
1/									

### → TRC

### WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE CCR SQLF 2SA24			MODEL: YSI ProDSS	SAMPLER:	JJ
PROJECT NO.:	553931.0002.0000				DATE: (C)	124
PH (	CALIBRATION CHECK			SPECIFIC CONDUC	CTIVITY CALIBE	
(LOT #): 36 JONES (EXP. DATE): (6) \ POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): U 6 D 1 3 C  (EXP. DATE): V 6 C  POST-CAL. READING / STANDARD	CAL. RANGE	TIME	CAL. READING (LOT #): LICE EST (CEP. DATE):  POST-CAL. READING/STANDARD	TEMPERATURE (*CELSIUS)	CAL TIME
700 1700	Herite	WITHIN RANGE WITHIN RANGE	067	1304 /1360	<b>)</b>	WITHIN RANGE
1	1	□ WITHIN RANGE	:	1		WITHIN RANGE
1	1	WITHIN RANGE		/		WITHIN RANGE
	CALIBRATION CHECK			, <u>, , , , , , , , , , , , , , , , , , </u>	BRATION CHEC	K
CAL READING (LOT #) 2 (CO ) (CO ) (EXP. DATE): (CO )	TEMPERATURE (*CELSIUS)	CAL. RANGE	TIME	CAL. READING	TEMPERATURE	CAL. RANGE TIME
POST-CAL. READING / STANDARD  /	20	WITHIN RANGE WITHIN RANGE	Xe3 (	POST-CAL READING /SATURATED AIR	18	WITHIN RANGE WITHIN RANGE WITHIN RANGE
	ITY CALIBRATION CHEC	WITHIN RANGE		/	COMMENTS  STANDARD	WITHIN RANGE
(LOT #): #20 (T)	(LOT#): (EXP. DATE):	CAL. RANGE	TIME.	(LOT #): (EXP. DATE):	LIST LOT NUMBERS A UNDER CALIE	ND EXPIRATION DATES
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		W -> =	CALIBRATED PARAMETERS		ON RANGES (1)
10 100 1100	1	RANGE WITHIN RANGE	0631	]	pH: +/- 0.2 S.  COND: +/- 1% O	CAL. STANDARD
, , , , , , , , , , , , , , , , , , ,	1	RANGE WITHIN RANGE		-   -   -	D.O.: VARIES	
	NOTES		1	TURB	TURB: +/- 5% O	CAL. STANDARD
						IGES ARE SPECIFIC TO WATER QUALITY METER
F	PROBLEMS ENCOUNTERED			CORRECTION	VE ACTIONS	
N1010	x / 2.4			in the	2.16	7-10/9/2
SIGNED	ι	DATE		CHECKED BY		DATE



### **WATER LEVEL DATA**

PROJECT NAME:	DTE CCR SQLF 2SA24	DATE:	10	76/18/
PROJECT NUMBER:	553931.0002.0000	AUTHOR:	JJ	<b>y</b>

PROJECT NUMBER:	553931.00	02.0000		AUTHO	R: JJ	
WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-104	0710		118.10			
MW-103	5730		154,2			
MW-106	6737		114.00			
MW-105	0695		23.60			
MW-101	unos		<b>B</b> 3.40			
MW-102	400 (					
MW-107	074Ce		191.10			
MW-108A	0845		57.50	·		
			-			
MW-107	0607		220.90			
					•	
	-	-				
L		1	1	1	I	<u></u>

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

SIGNED DATE CHECKED DATE

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PROJECT NAME: DTE CCR SQLF 2SA24							PREPARED CHE					KED	
PROJECT	NUM	BER	t: 55393 <sup>-</sup>	1.0002.0000		BY:	JJ	DATĘυ(α	74	BY: E		DATE: 19/2/24	
SAMPLE	D: N	กบ	U 10	80 F	WELL (	DIAME	TER:	2" 🗸 4" 🗌	6"	OTHER			
WELL MAT	ERIAL		☐ PVC	✓ ss 🗌	IRON	GALV	'ANIZED S	TEEL		OTHER			
SAMPLE T	YPE:		☑ GW	□ww □	sw 🗆	DI		LEACHATE		OTHER			
PURC	SING		TIME: 69	105 D	ATE:10171	14		AMPLE	•	0930		TE: 10/7/04	
PURGE METHOD	<b>)</b> :	=	PUMP BAILER	BLADDER PUI	MP (DEDICA	TED)	PH: (		U CC		ITY: <u>63</u> mg/		
DEPTH TO	WAT	ER:	32.05	T/, PVC			TURBII	OITY: 7.0	ン NT				
DEPTH TO	ВОТ	гом	3	T/ PVC	146		∏_NON	NE 🗌 SLI	GHŢ	□ мог	DERATE	☐ VERY	
WELL VOL	UME:		NA	LITERS	GALLO	NS	TEMPE	RATURE: <u>[</u>	).[	.°С ОТ⊦	HER:		
VOLUME F	REMO	VED:	_5_	☑ LITERS	☐ GALLO	NS	COLOF	· Clu	24	ODO	DR:		
COLOR:	_		cley	<u> </u>	OR: <u>5/19</u>	nt	FILTRA	TE (0.45 um)	YE	s 🗸	NO		
			TURI	BIDITY	.,		FILTRA	TE COLOR: NA		FiL	TRATE ODO	R: NA	
NONE		SLI	GНТ 🗌	MODERATE	☐ VEI	₹Y	QC SA	MPLE: 🗌 MS	/MSD	X	DUP- 40		
DISPOSAL	MET	HOD:	☑ GROUN	ND 🗌 DRUM	OTHER	₹	сомм	ENTS:			-		
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE LEVEL PURGE VOLUME													
	RAT (ML/N		(SU)	(umhos/cm)	(mV)		( mg/L)	(NTU)		(°C)	(FEET)	(GAL OR L)	
0905	20		بأنو	6303	236	C	125	5.0		\(\frac{1}{2}\)	52.00	INITIAL	
0910			6.72	6336			(.) [	5.0	13	. つ	5005		
0965			695	4255	- 230		096	7.0	13	2	530 T	Ż	
0420			4.95	6314	- 215		280	7.0	17.		530 7	3	
7690	_		495	4337	-215		080	7.0	12.		5200		
0930			(e.95	(1376	- 216	- 1	076	7.0	12	•	530 T	+	
0935			Ser C			_	1010		( 2		5201	- i	
64-71	}					-					3,00		
										-			
								E READINGS A					
pH: +/-	0.1		COND.: +/-	10 % ORP	: +/- NA	D.C	).: +/- <b>NA</b>	: TURB: +/-	10 %	or =</td <td>5</td> <td>TEMP.: +/- 0.5°C</td>	5	TEMP.: +/- 0.5°C	
BOTTLES	S FILLI	ΞD	PRESERV	ATIVE CODES	A - NONE	В	B - HNO3	C - H2SO4	D-	NaOH	E - HC	L F	
NUMBER	SIZ	Έ	TYPE	PRESERVAT	IVE FILT	ERED	NUMBI	ER SIZE	TY	PE PR	RESERVATI	VE FILTERED	
Ĺ	500	mL	PLASTIC	Α									
2	500	mL	PLASTIC	В	□ Y	1							
3 60mL PLASTIC A □Y ☑N □Y □N													
					□Y		1					□ Y □ N	
					□ Y		1					□ Y □ N	
SHIPPING	METH	OD:		0	ATE SHIPPE	 ΞD:			Alf	RBILL NUM	IBER:		
COC NUM	BER:			s	IĞNATURE:			$\widehat{}$			<u>-</u>	lalse	
	COC NUMBER: DATE SIGNED: OF GLAD												

## 

PROJECT I	NAME:	DTE C	CR SQLF 2S.	424			PR	EPARED		CHECKED			
PROJECT I	NUMBER	: 55393°	1.0002.0000		I	BY:	JJ	DATE: (o	BY:	E	h	DATE: 10/9/24	
SAMPLE ID	):Mu	1.10c	f	WEI	.L. D	DIAME	TER:	2" 🗸 4" 🗌	6" OTH	ER	-		
WELL MATE		☐ PVC	V ✓ SS	IRON		GALVA	NIZED S	STEEL	ОТН	ER			
SAMPLE TY	PE:	☑ GW	□ww □	sw		DI		LEACHATE	□ отн	ER			
PURG		TIMEOG	5 T D	ATE(OL)	li	24		AMPLE	TIME: (C)	Ö	DA	TEIGITIAY	
PURGE METHOD:	_	PUMP BAILER	BLADDER PUI	MP (DED	ICA	TED)				IVITO ), C	TY: <u>ろ</u> な。 で mg/		
DEPTH TO		1 1 /2 .	T/ PVC					DITY: ().6					
DEPTH TO	воттом		T/ PVC				ON			MOE	DERATE	☐ VERY	
WELL VOLU	ME:	MM	LITERS	GAL	LOI	NS	ТЕМРЕ	RATURE:	<u>2.4</u> °c	ОТН	IER:	, , ,	
VOLUME RI	EMOVED:	_5_	✓ LITERS	☐ GAL			COLO	R: <u>( ( (</u>	عز	ODC	DR:	1640 4ª	
COLOR:		\@cv	OI	OR:	採	<del>4</del> 7	FILTRA	TE (0.45 um)	YES	V	NO		
			BIDITY				-	TE COLOR: NA		FILT	RATE ODO	R: NA	
MONE			MODERATE		VEF	RY	QC SA	MPLE: MS	/MSD		DUP-		
DISPOSAL	METHOD:	✓ GROUN	ND DRUM	П ОТН	IER		COMM	IENTS:					
TIME	PURGE RATE	PH	CONDUCTIVITY	OF	₹P		D.O.	TURBIDITY	TEMPERATU	IRE	WATER LEVEL	CUMULATIVE PURGE VOLUME	
	(ML/MIN)	(SU)	(umhos/cm)	(m	V)		( mg/L)	(NTU)	(°C)		(FEET)	(GAL OR L)	
1790	200	7.626	325 5	-16	. 4	1	6.0	6.5	15.8		118	INITIAL	
1600		691	3226	-21	7	(	2.50	4.0	130		118	ĺ	
1005		7.14	3209	- 28			1.00	1.0	12.4		118	2	
1010		7,30	3201	- 3			574	075	12.4		118	3	
1015		7,09	3 200	7			らもつ	075	1 73, 1	`	118	Ý	
1030		7.30	3203	- 3	λĊ	) ز	b lec	065	12.3		118	\$	
1025											118	$\varphi$	
							·····						
			,										
NOT	E: STABII	LIZATION T	EST IS COMP	LETE WH	IEN	3 SUC	CESSIV	E READINGS	ARE WITHIN	THE F	OLLOWIN	G LIMITS:	
pH: +/- <b>0</b>	).1 (	COND.: +/-	10 % ORP	: +/- <b>NA</b>		D.O.	: +/- NA	TURB: +/-	<b>10 %</b> or	=</td <td>5</td> <td>TEMP.: +/- 0.5°C</td>	5	TEMP.: +/- 0.5°C	
BOTTLES	FILLED	PRESERV	ATIVE CODES	A - NOI	٧E	В	- HNO3	C - H2SO4	D - NaOl	1	E - HC	L F	
NUMBER	SIZE	TYPE	PRESERVAT	IVE F	ILTE	ERED	NUMB	ER SIZE	TYPE	PR	ESERVATI	VE FILTERED	
(	500mL	PLASTIC	А		Υ	☑ N						☐ Y ☐ N	
1	500mL	PLASTIC	В		Υ	N						□Y □N	
	60mL	PLASTIC	А		Υ	IJ N						□ Y □ N	
					Υ	N						Y N	
					Υ	□ N						□Y □N	
SHIPPING N	/IETHOD:		С	ATE SHI	PPE	ED:			AIRBILL	NUM	BER:		
COC NUMB	ER:		s	IGNATU	RE:				DATE SI	GNEI	D:	Walse	
<u> </u>													

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PROJECT NAME:	DTE C	CR SQLF 2	SA24		PR	EPARED		CHECKED				
PROJECT NUMBE	R: 55393	1.0002.0000		BY:	IJ	DATE (Q)	BY:	en	-	DATE: p/1/4		
SAMPLE ID:	010	1	WELL	DIAME	TER:	2" 🗸 4" 🗌	6" OT	HER				
WELL MATERIAL:	☐ PVC	√ss [	] IRON [	GALV	ANIZED S	STEEL	ΓΟ 🗌	OTHER				
SAMPLE TYPE:	☑ GW		] sw [	DI DI		LEACHATE	O1	HER				
PURGING	TIME: O	13	DATE: (U)	124		AMPLE	TIME: ((			TE 107/124		
PURGE  METHOD:	PUMP BAILER	BLADDER PO	JMP (DEDIC	ATED) -		77 : 3	U CONDI		ry: <u>'2 (</u> 0 2 1 mg/	DE umhos/cm ′L		
DEPTH TO WATER	1013 Liv	T/ PVC			TURBI	DITY: _20	NTU					
DEPTH TO BOTTON	1	T/ PVC			T∯-NO	NE 🗌 SLI	GHT _	] MOD	ERATE	☐ VERY		
WELL VOLUME:	IUM	LITERS	☐ GALLO	ONS	TEMPE	RATURE:	7.4 ℃	отн	ER:			
VOLUME REMOVED	:5_	☑ LITERS	GALLO	ONS	COLO	r: <u>C/4</u>	50N	ODO	R:	-		
COLOR:	<u> </u>		DDOR: 5114	9nº	FILTRA	NTE (0.45 um)	YES	V I	NO			
	TUR	BIDITY			FILTRA	TE COLOR: NA		FILT	RATE ODO	R: NA		
		MODERATE	☐ VE	RY	QC SA	MPLE: MS	/MSD		DUP-			
DISPOSAL METHOL	D: ✓ GROUN	ND DRU	M 🗌 OTHE	R	COMM	MENTS: Wat	e back	<u>v1</u>	mal	funtiony		
TIME PURGE RATE	PH	CONDUCTIVIT	ry ORP	İ	D.O.	TURBIDITY	TEMPERA	TURE	WATER LEVEL	CUMULATIVE PURGE VOLUME		
(ML/MIN)	(SU)	(umhos/cm)	(mV)		( mg/L)	(NTU)	(°C)	•	(FEET)	(GAL OR L)		
W43 200	7.17	218/	-20	3	8.5	50	12-	بيا	103.00	INITIAL		
1046	7.46	2124	- 33	i	1,00	4.3	12.6			į		
1053	7.43	2113	- 24		087	(0.7)	12.4			2		
1050	7.39		- 25		Overl	7.0	12. 4	P		5		
1103	7. 39	2110			075	7.0	123			7		
1108	-239	2104	-a*		075	7.0	12.4	- 1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	† /" - '		, , , , ,			7.0	1					
	1											
					<del></del>							
NOTE: STAE	II IZATION I	EST IS COM	DI ETE MUE	N 2 CII	CCESSIV	E DEADINGS	ADE MITHIN	LTHE		G LIMITS:		
oH: +/- 0.1	COND.: +/-		PLETE WHE P: +/- NA		).: +/- NA			N INE F		TEMP.: +/- 0.5°C		
BOTTLES FILLED	-	ATIVE CODE	<del></del>		B - HNO3	C - H2SO4			E - HC			
NUMBER SIZE	TYPE	PRESERVA	<del></del>	TERED		BER SIZE	TYPE	PRI	ESERVATI			
( 500mL	PLASTIC	A							***************************************			
[ 500mL	PLASTIC	В										
( 60mL	PLASTIC	Α										
								_	******************************			
	<u> </u>		Y		1		<u> </u>					
SHIPPING METHOD	:		DATE SHIPF	PED:			AIRBIL	L NUM	BER:			
COC NUMBER:			SIGNATURE	:			DATE	SIGNE	o: (C	5 (9124		
					7	1	- Contract C					

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PROJECT NA	AME:	DTE C	CR SQLF 28	SA24			PREPARED					Ī	CHECKED						
PROJECT NU	UMBER	: 553931	1.0002.0000			В	Y:		JJ	D	ATE (de	()4		BY:	Eh	,	ב	DATE: 10/4/2	24
SAMPLE ID:	MU	0) - د	, 7	V	VEL	L DI	ΑM	ETE	R: 🗌	2" [	✓ 4" <u></u>	] 6"		OTH	IER				
WELL MATER	RIAL:	PVC	√ss [	RON	۱ [	G	AL'	VAN	NIZED S	STEE	_			OTH	IER			****************************	_
SAMPLE TYPE	E:	☑ GW	□ ww   [.	sw	[		)I			LEAC	HATE			OTH	IER				
PURGIN	NG	TIME: [ ]	34 1	DATE:	ol	7/	14		S	AMF	LE	TIN	ΛE:	• 17	04			TE: 10/7/20	
PURGE METHOD:	_	PUMP BAILER	BLADDER PU	JMP (D	EDI	ICAT	ED)	)	PH: ORP:			nV	COI	NDÚ		тү: <u>Ч</u> <b>%</b> ©		19 Sumhos/c	m
DEPTH TO W			T/ PVC	440 F 1140		_			TURBI				NTU	.,	<u> </u>	<u> </u>	mg/L		
DEPTH TO BO		1-71: (0	T/ PVC			,			MOI			≌⊃. IGH1			MOI	DERATI	E	☐ VERY	
WELL VOLUM		NM	LITERS		GAL	LON	IS	$\dashv$	TEMPE			3,4	1	 °C	ОТН	IER:			
VOLUME REN	MOVED:	ie	✓ LITERS		3AL	LON	IS		COLO	R: _	( lu	2 cy	_		ODO	DR:		100	
COLOR:	_cl	vey/		DOR:	O	14	7	.	FILTRA	ATE (C	.45 um)		YES		V	NO		•	
		TURE	BIDITY					$\exists$	FILTRA	TE C	DLOR: NA	<u> </u>			FILT	TRATE (	ODOF	R: NA	
NONE	SLI	ЗНТ 🗌	MODERATE		]	VER'	Υ		QC SA	MPLI	E:	s/MS	D			DUP-			
DISPOSAL MI	IETHOD:	✓ GROUN	ND 🔲 DRUI	и 🔲 (	OT⊦	IER			COMM	/ENT	iwat.	ev-	را	ه ن ۵	1	nulu	₹	malfun	√tiþi
IIME   F	PURGE RATE	PH (SU)	CONDUCTIVIT		OF				D.O.	ì	RBIDITY	TE		RATU	JRE	WATE LEVE	EL	CUMULATIVE PURGE VOLUM	
	ML/MIN)	7.607	(umhos/cm)		(m)		-		mg/L)	<del></del>	NTU) 13	-	î	°C) ). U		(FEE		(GAL OR L) INITIAL	$\dashv$
W. V - W	00	694	50376			<u>0</u> 59	$\dashv$		0.0 YE	ļ	19	-	<u>い</u>	J		しつト	16	<i>I</i>	
139		1				10	-				<u> </u>	'		<u> </u>				2	-
1144		(e.) (e.)	50133				$\dashv$		(00)	E	<u>/</u>		<u>ろ</u>						
1144		1			~~~~	30			(er	7	( <b>D</b>	-	١3.					3	
1154			4900						54	N.		-		4				<u> </u>	
1159	\	7.15	4900			uc			52		<u>)                                    </u>	<u> </u>		U					
1204		7.15	4899	<u> </u>		40	_	0	<u>50</u>		3. 2	-	13	<u>ز</u>	7			(y	
											***************************************	-				ļ			
												-							
												<u> </u>				<u></u>			
			EST IS COM																
pH: +/- 0.1		COND.: +/-		P: +/-					+/- NA		URB: +/-				=</td <td></td> <td></td> <td>EMP.: +/- <b>0.5°</b></td> <td></td>			EMP.: +/- <b>0.5°</b>	
BOTTLES FI			ATIVE CODE						HNO3	—	- H2SO	4 T		NaO	т —		- HCL		_
4.	SIZE	TYPE	PRESERVA	TIVE .	F	ILTE			NUMB	BER	SIZE	_	TYF	Έ	PR	RESER	/ATI\		$\dashv$
	500mL	PLASTIC	A	 	믜			N 				-			<del> </del>				N
( 5	500mL	PLASTIC	В					N				ļ			-				N
	60mL	PLASTIC	A			Y [	=	N		_									N
						Υ [		N		_		_			<b> </b>				N
						Υ [		N											N
SHIPPING ME	ETHOD:			DATE	SHII	PPE	D:					_	AIR	BILL	NUM	BER:			
1								~							****				

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PROJECT	NAME:	DTE C	CR SQLF 2	SA24		PR	EPARED		CHECKED			
PROJECT	NUMBER	R: 55393°	1.0002.0000	)	BY:	IJ	DATE: 1	uby by	E	R	DATE:10/9/29	
SAMPLE	D: M(	۱^ لا	05	WELL	DIAME	TER:	2" 🗸 4" 🗌	6" O	THER			
WELL MAT	ERIAL:	PVC	✓ss [	] IRON [	] GALV	'ANIZED S	STEEL	o	THER			
SAMPLE T	YPE:	☑ GW	□ ww [	] sw [	] DI		LEACHATE	o	THER			
PURC	SING	TIME(3)		DATE:(0(7	124		AMPLE	TIME: 13	51	DA	TE: 70 /7 /26	
PURGE METHOD		PUMP BAILER	BLADDER P	UMP (DEDIC	ATED) -		<u>7,40</u> s 2 <b>5</b> 4.9 m		<u> () 5</u>		L Tumhos/cm	
DEPTH TO	WATER:	23,10	T/ PVC		to.	TURBIDITY: 2.5 NTU						
DEPTH TO	воттом		T/ PVC			NO		GHT L	MOI	DERATE	☐ VERY	
WELL VOL	UME:		LITERS	GALL	ONS	TEMPE	RATURE: LC		ОТН	IER:		
VOLUME F	REMOVED	<u>:_(e_</u>	✓ LITERS	GALL	ONS	COLO	R: <u>UN</u>	cy	ODO	DR:	10re	
COLOR:		Clear		ODOR: 5/19	<u>n+</u>	FILTRA	NTE (0.45 um)	YES	V	NO		
·		TURI	BIDITY	-		FILTRA	TE COLOR: NA		FILT	TRATE ODO	R: NA	
DNONE	☐ SL	IGHT 🗌	MODERATE	. U	ERY	QC SA	MPLE: MS	/MSD		DUP-		
DISPOSAL	METHOD	: GROUN	ND 🗌 DRU	М 🗌 ОТНЕ	R	COMM	MENTS:					
TIME	PURGE RATE	PH	CONDUCTIVI			D.O.	TURBIDITY	TEMPERA		WATER LEVEL	CUMULATIVE PURGE VOLUME	
1461	(ML/MIN)	(SU)	(umhos/cm	-	<del></del>	( mg/L) {~ }	S.I	16°		(FEET) みつら	(GAL OR L)  INITIAL	
1201	200		1100				3.4	14.		27 PO	f	
		7.64				1.61				<del> </del>	2	
1231		7.44	11789			1065	3.8	19.		27r		
234		7,40	1149	- 28		067	2.5	140		2760		
1711		7,40	11911	-31	٢	058	2.4	14.	0_	3760	4	
1244	/	7.40	11900	15-31	<u>r</u>	<u>058                                    </u>	3.5	14,	0	2260	2	
1251		7.40	1190	T - 251	1.9	054	3. Vg	140	<u>ت</u>	2)bc		
							j j		······································			
						<del></del>			······································			
NO	TE: STAB	LIZATION T	EST IS COM	IPLETE WHE	N 3 SU	ICCESSIV	E READINGS	ARE WITHI	N THE	FOLLOWIN	IG LIMITS:	
pH: +/-	0.1	COND.: +/-	<b>10</b> % OF	RP: +/- <b>NA</b>	D.C	D.: +/- <b>NA</b>	TURB: +/-	<b>10</b> %	or =</td <td>5</td> <td>TEMP.: +/- <b>0.5°C</b></td>	5	TEMP.: +/- <b>0.5°C</b>	
BOTTLES	S FILLED	PRESERV	ATIVE CODE	S A-NONE	<u> </u>	3 - HNO3	C - H2SO4	D - Na	ЮН	E - HC	L F	
NUMBER	SIZE	TYPE	PRESERV		TERED	NUME	BER SIZE	TYPE	PR	RESERVATI		
(,	500mL	PLASTIC	A		-=+							
	500mL	PLASTIC	В			4		ļ		*****************************		
-(	60mL	PLASTIC	А	Y		٧		1			Y N	
					-=+	V				PROVINCE ALEMAN SON AV STORM.	Y N	
L				L  Y		V					M M	
SHIPPING	METHOD:			DATE SHIP	PED:			AIRBI	LL NUM	IBER:		
COC NUM	BER:			SIGNATURE	<u> </u>			DATE	SIGNE	D:	10/9/24	
			'					A CONTRACTOR OF THE PARTY OF TH				

## 

PROJECT NAME:	DTE CCR S	SQLF 2SA24	4	PREPARED CHEC					KED			
PROJECT NUMBE	R: 553931.000	02.0000	E	BY:	JJ	DATE: ¿ o [ ]	SOM BY:	EP.	DATE:10/9/24			
SAMPLE ID: MC	U- (U)	3	WELL D	IAMET	ER:	2" 🗸 4" 🗌	6" OTHE	R				
WELL MATERIAL:	☐ PVC ✓ S	SS   IR	RON [	SALVAI	VIZED S	TEEL	OTHE	R				
SAMPLE TYPE:	☑ GW   V	vw 🗆 s	W 🔲 [	Ol	<u> </u>	EACHATE	OTHE	R				
PURGING	TIME:(3 a 1		E: 6/7/	-		<del></del>	TIME: (344 DATE: 1017/144) J CONDUCTIVITY: 3378 umhos/cm					
PÜRGE ∠ METHOD:	PUMP BLAD BAILER	DDER PUMP	(DEDICAT	ΓED)	-	<u>7いい</u> si <u>多48</u> m		TVITY: <u>うづ</u> 70 mg/				
DEPTH TO WATER:	139,70 T/ P	, VC			TURBIC	DITY: 78	<b>C</b> >NTU					
DEPTH TO BOTTOM		PVC			MON	_ ,	_	ODERATE	☐ VERY			
WELL VOLUME:	NNL	ITERS [	GALLON	18	TEMPE	RATURE: _	9 0 0	THER:				
VOLUME REMOVED	: <u>    5                                </u>	ITERS [	GALLO	<b>1</b> S	COLOR	: <u>Cle</u>	<u>4</u>	DOR: (	195			
COLOR:	loca	ODOI	RNOK	<u>)</u>	FILTRA	TE (0.45 um)	YES [	√ NO				
	TURBIDIT					E COLOR: NA		ILTRATE ODO	R: NA			
<u> </u>		ERATE	VER	Y		MPLE: MS/						
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: water Level muter net work is												
TIME PURGE	PH CONI	DUCTIVITY	ORP		D.O.	TURBIDITY	TEMPERATUR	E WATER LEVEL	CUMULATIVE PURGE VOLUME			
(ML/MIN)	1	nhos/cm)	(mV)		mg/L)	(NTU)	(°C)	(FEET)	(GAL OR L)			
132 1 20C	1	/ / -	-179		1,29	14.5	17.4	159.30	INITIAL			
13ace	775 3		- 190		343	12.5	13. V		1			
1331			- 310	1.	lo	7.80	12.9		3			
1334	725 3	369	- B47	7 0	74	7.80	12.9		3			
1341	725 3	372	- 347	150	2,2	7.20	12.8		4			
1344	7.25 3:	378	<u>- 348</u>	5 0	20	7.80	12.4		\$			
NOTE: STAE pH: +/- 0.1	BILIZATION TEST  COND.: +/- 10 %				CESSIVI +/- NA				IG LIMITS: TEMP.: +/- 0.5°C			
BOTTLES FILLED	PRESERVATIVI	E CODES A	- NONE	В-	HNO3	C - H2SO4	D - NaOH	E - HC	L F			
NUMBER SIZE	TYPE PRE	ESERVATIVE	E FILTE	RED	NUMBI	ER SIZE	TYPE	PRESERVATI	VE FILTERED			
∫ 500mL	PLASTIC	Α	□ Y	√ N					□Y □N			
<b>(</b> 500mL	PLASTIC	В	Y	IJN					□Y □N			
( 60mL	PLASTIC	Α	Y	√ N					Y N			
			□ Y	□N					DY DN			
			□ Y	□N					N Y N			
SHIPPING METHOD	:	DAT	E SHIPPE	.D:			AIRBILL N	UMBER:				
COC NUMBER:	***************************************	sıgı	NATURE:				DATE SIG	NED:	10/9/14			
		—. J			6							

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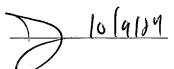
PROJECT	E:	DTE C	CR SQLF 2SA	<b>\24</b>	PREPARED CHECKED						KED	
PROJECT	NUM	BER	: 553931	1.0002.0000	-	BY:	JJ	DATE; U	64	BY:	l	DATE: 10/1/24
SAMPLE	D:M	U	٥- د	ت)	WELL	DIAME	TER:	2" 🗸 4" 🗌	6"	OTHER		
WELL MATI	ERIAL	: [	PVC	✓ SS 🔲	IRON 🗌	GALVA	ANIZED S	TEEL		OTHER		
SAMPLE TY	/PE:		☑ GW	□ww □	sw 🗌	DI		LEACHATE		OTHER		
PURG	SING		TIME:00	5 L	TE: W/B	124		AMPLE		०७५		TE:10/8/14
PURGE METHOD	):	_	PUMP BAILER	BLADDER PUN	//P (DEDICA	TED)	PH:	<u>がく</u> s <u>ろで</u> m		7,	ITY: <b>3 3 3</b> 00 mg/	
DEPTH TO	10/ATI						TURBI		V DO NT		1119/	
DEPTH TO			`				MON-MON		— ' <b>'</b> '' GHT		DERATE	☐ VERY
WELL VOL		· · · ·		LITERS	☐ GALLC	NS	_J	RATURE: LA		°C OTH		
VOLUME F		/ED:	ìc	 ✓ LITERS	GALLO	NS	COLOF	r 1		ODO		
COLOR:			ea	OE	OR:\$1(9)	nt	FILTRA		☐ YE	:s 🔽	NO	
		-6-	•	BIDITY			<del></del>	TE COLOR: NA		T	TRATE ODO	R: NA
NONE	Ø	SLI	ЭНТ <u></u>	MODERATE	☐ VE	RY	QC SA	MPLE: MS	/MSD		DUP-	
DISPOSAL	METH	HOD:	☑ GROUN	ID 🗌 DRUM	OTHE	₹	сомм	ENTS:				
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE LEVEL PURGE VOLUME												
	(ML/N	IIN)	(SU)	(umhos/cm)	(mV)		( mg/L)	(NTU)		(°C)	(FEET)	(GAL OR L)
doi	30	P	44	1777	232		7.21	42	<u> </u>	<u>5. U</u>	114.00	INITIAL
0100			6,40	3204	-16		1.86	3(e	12	). Կ	114.00	ſ
0705			6.41	3194	- 270		093	37		<u>۱. ک</u>	114(2)	, a
0110			(a (ei	3300	-300	<b>)</b>	078	45	ίl	· E	114 6	3
8715			6.74	3307	-330	(	>73	(eO	()	2. [	1144	4
1770		V	695	37) [	-340	2 0	,82	40	12	1.3	111-16	4
67) 5			705	3737	-341	1	,72	30	l,	). <u>J</u>	11400	4
0730			705	3236	-340	1 1	771	20	12	- 3	11400	フ
0735			フロマ	3233	-350	- 1	20	20	12	(. 3	114.4	€/
2016			705	3335	- 350		270	20		(د ٠)	1140	G
	TE: S	ΓAΒΙΙ			-		CCESSIV	E READINGS A	ARE W	ITHIN THE	FOLLOWIN	G LIMITS:
pH: +/-			COND.: +/-		+/- <b>NA</b>		.: +/- NA			or =</td <td></td> <td>TEMP.: +/- 0.5°C</td>		TEMP.: +/- 0.5°C
BOTTLES	S FILLI	ΞD	PRESERV	ATIVE CODES	A - NONE	В	- HNO3	C - H2SO4	D	- NaOH	E- HC	L F
NUMBER	SIZ	E	TYPE	PRESERVAT	IVE FILT	ERED	NUMB	ER SIZE	TY	PE PF	RESERVATI	VE FILTERED
	500	mL.	PLASTIC	A	☐ Y	☑ N						□ Y □ N
i	500	mL	PLASTIC	В	Y	☑ N					**************************************	☐ Y ☐ N
	60n	nL	PLASTIC	Α	Y	☑ N					work was a second a s	
					Y		1					
					Υ	□ N	1		<u> </u>			
SHIPPING	METH	IOD:		D	ATE SHIPP	ED:			Al	RBILL NU	MBER:	
COC NUM	BER:			s	IGNATURE	:			D/	ATE SIGNE	D: [	0(91)4



(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	DTE CCR SQLF 2SA24		PREP	ARED		CHEC	KED
PROJECT NUMBER:	553931.0002.0000	BY:	JJ	DATE: Well	BY:	ER	DATE: 10/1/24

SAMPLE	ID: M	<u>٠</u> - (	06						
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O.	TURBIDITY (NTU)	TEMPERATURE	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
our	290	705	3336	-300	070	20	12.3	114.0	(C
0,,				>-	0,70	<u> </u>		17.6.	
	<b>├</b> ─/─	-		ļ					
	<del> /</del>	ļ							
	<b>├-</b> /					······································			
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ACCUPANT OF THE PARTY OF THE PA	-th bea'd differ constructions are a shift you was more a		areas and an excellent to the second deliver of the Martine - victoria county they		anna a a a a a a a a a a a a a a a a a		na a fearaigh fheilige an aithr dheiltheil an fearaigh (a gaile an ghlean ghlean ghlean dhe fha fha dheilth fh		
		<u> </u>							
		<b></b>		<del> </del>				ļ	



DATE SIGNED:	

<b>&lt;&gt;</b>	TRC	
	11/	

PROJECT	NAME:	DTE C	CR SQLF 2SA	.24	PF	REPARED		CHEC	KED
PROJECT	NUMBER	R: 55393	1.0002.0000	B'	Y: JJ	DATEN	BY:	ER	DATE: 10/1/29
SAMPLE	iD: M ن	U	03	WELL DIA	AMETER:	2" 🗸 4" 🗌	] 6" □ OTH	IER	1
WELL MAT	ERIAL:	☐ PVC	✓ss 🗆	IRON G	ALVANIZED	STEEL	□ от⊦	IER	
SAMPLE T	YPE:	√ GW	□ww □	SW 🗆 D	ı	LEACHATE	□ от⊦	IER	
PUR	SING	TIME	DA DA	TE: jul & l					TEROLETSE
PURGE METHOD		PUMP BAILER	BLADDER PUM	IP (DEDICATI		- 6.3	ONDUC	TIVITY: <u>えい</u> 3.0 <b>じ</b> mg/	umhos/cm
DEPTH TO	WATER:	220-70	T/ PVC				NTU		
DEPTH TO	воттом		T/ PVC		MÎN	ONE SL	IGHT 🗌	MODERATE	☐ VERY
WELL VOL	UME:		LITERS	GALLON	S TEMP	ERATURE: //	<u>4</u> °c	OTHER:	
VOLUME I	REMOVED		✓ LITERS	GALLON:	s cold	OR: <u>Llue</u>	cV	ODOR:	jorg
COLOR:	<u> </u>	Cheg	<u>OD</u>	OR: NONC	FILTR	ATE (0.45 um)	YES	✓ NO	
_ <i>,</i>			BIDITY			ATE COLOR: NA		FILTRATE ODO	R: NA
MONE		7	MODERATE	VER)			S/MSD	DUP-	
DISPOSAL	_ METHOD	:☑ GROUI	ND   DRUM	OTHER	COM	MENTS:	<u> </u>		
TIME	PURGE RATE	PH	CONDUCTIVITY	ORP	D.O.	TURBIDITY	TEMPERATU	JRE WATER	CUMULATIVE PURGE VOLUME
	(ML/MIN)	(SU)	(umhos/cm)	(mV)	( mg/L)	(NTU)	(°C)	(FEET)	(GAL OR L)
7135	200	لوج	3623	-3087	6.75	40	4.3	22070	INITIAL
<i>0</i> 630		6.40	2033	- 192	3,34	le O	11.3	22400	Ì
7 (30		700	2039	-174	40	58	11.3	334,0	Ì
0830		7.00	2037	-173		<i>p</i> , .	11.4	2244	3
083V		700	2038	-185	3,15	1	114	2344	4.
(80 kg)		7.60	2039	. 188	3.00		11.4	22466	5
084		7.00	2034	- 187	3.09	30	11.4	2744	نها
0850		700	2036	. 180	3.08		11.4	22400	ラ
1780		7.00	2038	- 180			11.4	734.60	8
0900	7	7.00	2039	-180	3.06		11.4	3344	9
<u> </u>	TE: STABI		EST IS COMPL					THE FOLLOWIN	G LIMITS:
pH: +/-		COND.: +/-		+/- <b>NA</b>	D.O.: +/- <b>N</b> /				TEMP.: +/- 0.5°C
BOTTLES	SFILLED	PRESERV	ATIVE CODES	A - NONE	B - HNO3	C - H2SO	1 D - NaOl	H E-HC	L F
NUMBER	SIZE	TYPE	PRESERVATI	VE FILTER	RED NUM	BER SIZE	TYPE	PRESERVATI	VE FILTERED
	500mL	PLASTIC	A		2 N				O Y O N
	500mL	PLASTIC	В		2 N				O Y O N
(	60mL	PLASTIC	А		7 N				□Y □N
					] N				□ Y □ N
				Y_	] N				☐ Y ☐ N
SHIPPING	METHOD:		DA	ATE SHIPPED	):		AIRBILL	NUMBER:	
COC NUM	BER:		SI	GNATURE:			DATE SI	GNED: 6	10/14
							- 1	1,04	11/1

<b>&lt;&gt;</b>	TRC

PROJECT	NAME:	DTE C	CR SQLF 2	SA24		PRI	PARED			CHEC	KED	
PROJECT	NUMBER	: 553931	1.0002.0000	)	BY:	JJ	DATE: (6)	Lijol BY	El	L	DATE: 10 9	29
SAMPLE	D: Chu	arry	Sam	WELL	DIAME	TER:	2" 🗸 4" 🗌	6" O	THER			
WELL MAT	ERIAL:	□ PVC \	IJss [	IRON [	GALV	A <b>NI</b> ZED S	TEEL	□ 0	THER			
SAMPLE TY	/PE:	☑ GW	□ ww [	」sw □	DI		LEACHATE	0	THER			
PURG	SING	TIME:		DATE:			AMPLE	TIME:	93		1 4	la Çê
PURGE METHOD	. —	PUMP BAILER i	BLADDER P	UMP (DEDIC	ATED)		)./1 s -21~ m	U COND		TY: <u>/2</u> - <i>}C</i> mg		s/cm
DEPTH TØ	<u> </u>		T/ F/C		-	TURBII		NTU			, <u> </u>	:
DEPTH/TO	<del>-\</del>		T/ VC			NOI		о GHT [	] MOE	DERATE	☐ VER	<sub>Y</sub> :
WELL/OLI	<del></del>		LITERS	GALLO	DNS	TEMPE	RATURE: 13	<u>।.                                    </u>	ОТН	IER:		
VOL UME F	<del></del>		LITERS	GALLO	ONS	COLOF	e Ca	<u>.                                    </u>	ODC	DR: Uc	en	
COLOR:		<i></i>		ODOR:		FILTRA	TE (0.45 um)	YES	V	NO.		
		TURI	BIDITY			FILTRA	TE COLOR: NA		FILT	RATE ODC	R. NA	
NONE	SLI	GHT	MODERATE	_ VE	RY	QC SA	MPLE: MS	/MSD		DUP-		
DISPOSAL	METHOD:	☑ GROUN	ND 🗌 DRU	М 🗌 ОТНЕ	R	СОММ	ENTS:					
TIME	PURGE RATE	PH	CONDUCTIVI			D.O.	TURBIDITY	TEMPERA		WATER LEVEL	CUMULATI PURGE VOL	.UME
	(ML/MIN)	(SU)	(umhos/cm	) (mV)		( mg/L)	(NTU)	(°C)		(FEET)	(GAL OR INITIAL	1
												***************************************
			***************************************				The second of th					
									.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		·										
			***************************************									
NO.	TE: STABI	I IZATION T	EST IS COM	IPI FTF WHF	N 3 SU	CCESSIV	E READINGS	ARE WITH	N THE I	FOLLOWIN	IG LIMITS:	
pH: +/-		COND.: +/-		RP: +/- <b>NA</b>		).: +/- <b>NA</b>			or =</td <td></td> <td>TEMP.: +/- 0</td> <td>).5°C</td>		TEMP.: +/- 0	).5°C
BOTTLES	SFILLED	PRESERV	ATIVE CODE	S A - NONE	В	3 - HNO3	C - H2SO4	D - Na	ЮН	E - H0	CL F	
NUMBER	SIZE	TYPE	PRESERV	ATIVE FIL	TERED	NUMB	ER SIZE	TYPE	PR	ESERVAT	IVE FILTE	RED
۲	500mL	PLASTIC	А	□ Y	☑ N	ı					□ Y [	□N
(,	500mL	PLASTIC	В	□ Y	<b>図</b> N	ı				an i dhiriy da'an ka an an ka ji ka dhaan i dhaa dh'a a ba'dha 'i Rain	Y [	⊒ N
	60mL	PLASTIC	А	□ Y	V V	1					□ Y [	N
				□ Y		1						N
				ΠY		N				**************************************	□ Y □	П
SHIPPING	METHOD:			DATE SHIPF	PED:	<u> </u>		AIRBI	LL NUM	IBER:		
COC NUMI				SIGNATURE	<del></del>				SIGNE		3 (91)1	 U
		<del></del>						- 1		[	<del></del>	<del> </del>
						/	<i>'</i>					

### TRC

PROJECT	NAME:	DTE C	CR SQLF 2	SA24			PI	REP	ARED			CHE	CKED
PROJECT	NUMBER	: 55393 <sup>-</sup>	1.0002.0000			BY:	JJ		DATE: ) & (	un	BY: E	L	DATE: 10 9 29
SAMPLE	9 Du	arry	Dish	4100	ĵ2L [	DIAME	TER:	] 2"	✓ 4"	6" [	OTHER		
WELL MAT		PVC	✓ ss [	RON			'ANIZEC				OTHER		
SAMPLE T	YPE:	☑ GW	□ww □	sw		DI		] LEA	CHATE		OTHER		
PUR	SING	TIME:	1	DATE:					IPLE	TIME:	040		PATE: COLENIAL
PURGE METHOE	)·	PUMP BAILER	BLADDER PU	JMP (DED	ICA	(TED)		<u> </u>		U CO	NDUCTIV	71 <sup>:</sup>	g/L umhos/cm
DEPTH TO	WATER:		T/ PVC				TUR	BIDIT	Y: (06	NT	U		
DEPTH TO	воттом		T/ PVC	1			□□и	ONE	SL	GHT	□ мс	DERATE	☐ VERY
WELL VO	UME:		LITERS	☐ GAI	LLO	NS	TEMF	ERA	TURE; 🚺	<u>.</u>	<u> </u>	HER:	
VOLUME	ŘEMOVED:		✓ LITERS	☐ GAI	LLO	NS	COL	OR:	<u>C(a</u>	<u>م کناز</u>	OD	OR: NC	27.7
COLOR:				DDOR:			FILTF	ATE	(0.45 um)	YE	s 🔽	NO	
_			BIDITY				_		COLOR: NA		FIL	TRATE OD	OR: NA
NONE	SLI		MODERATE		VEI	RY	QC S	AMP	LE: MS	/MSD		DUP-	
DISPOSAL	METHOD:	✓ GROUN	ND DRUI	и 📙 оті	HEF	₹	COM	MEN.	TS:				
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVIT		RP 1V)		D.O. ( mg/L)	T	URBIDITY (NTU)		ERATURE	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
			,		·				, ,		,		INITIAL
								1					
		··			~			+					
***************************************			**************************************					+-				<del> </del>	
												-	
								-					
										<u> </u>		<b>_</b>	
								ļ		<u> </u>	***************************************		
NO	TE: STABI	LIZATION T	EST IS COM	PLETE W	HEN	N 3 SU	ICCESS	IVE R	EADINGS .	ARE WI	THIN THE	FOLLOW	ING LIMITS:
pH: +/-	0.1	COND.: +/-	<b>10</b> % OR	P: +/- <b>NA</b>		D.C	D.: +/- N	A	TURB: +/-	10 %	or =</td <td>: 5</td> <td>TEMP.: +/- 0.5°C</td>	: 5	TEMP.: +/- 0.5°C
BOTTLES	S FILLED	PRESERV	ATIVE CODE	<u>S</u> A - NO	NE	E	3 - HNO	3	C - H2SO4	4 D-	· NaOH	E-H	ICL F
NUMBER	SIZE	TYPE	PRESERVA	TIVE F	ILT	ERED	NUM	BER	SIZE	TY	PE PI	RESERVA	TIVE FILTERED
r	500mL	PLASTIC	Α		Υ	\ <u>\</u>	٧						□Y □N
ľ	500mL	PLASTIC	В		Y	Q N	V						□ Y □ N
j	60mL	PLASTIC	A		Y	<b>过</b>	N			1		magazako majari da Wili Abilian biber ar	DY DN
					Y		v						DY DN
					Y		v l			1			DY DN
SHIPPING	METHOD:		•	DATE SH	IPPI	FD.			1	Δ1	RBILL NUI	MBFR:	1.1.1.1
													tologo
COC NUM	BEK:			SIGNATU	KE:		· .	/	$\widehat{}$	_   D/	ATE SIGNE	Ξ <b>U</b> : -	01911
							- 4	_					

# **Chain of Custody Record**

్ట్రికి eurofins | | Environment Testing

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

Client Information	A CALON	ASSC		Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No:  240-124491-43411.1	
Client Contact:	Phone:	,		E-Mail:	State of Origin:	ı	т
Jacob Krenz	154 107	5		is.Brooks@et.eurofinsus.com		Page of	
Company: TRC Environmental Corporation.		PWSID:		Analysis Requested	equested	Job #;	
Address: 1540 Eisenhower Place	Due Date Requested:					Preservation Codes: D - HNO3	<del></del>
City: Ann Arbor	TAT Requested (days):					N - None	
State, Zip: MI, 48108-7080	Compliance Project:	A Yes A No					
Phone: 313-971-7080(Tel) 313-971-9022(Fax)	PO#: 214272						
Email: JKrenz@trccompanies.com	WO#. 553931.0002			(ON	(6)		
Project Name: CCR DTE Sibley Quarry	Project #: 24016805			10 Se	eu je ji		
Ste: Michigan	SSOW#:			SD (Y Ca, Fe TDS	100, 10	Other:	
Sample Identification		Sample Type Sample (C=comp,		Seriora Micheledi Seriora Micheledi Seriora Micheledi Seriora Micheledi	Jedmuk Jejo	Special Instructions Note:	<del></del>
		N Pre	Preservation Code:				8352
M12-1081	00 41/101		Water	かの大十六			
D. 0 #0 (	1 7 17	0 -	Water	オナメール	É		
My log	(i 1) [c	a) (oxo)	> Water				***
10) · 3W	1 0 17	9 30	> Water	44 イイイ しっ			
(C) - MW	11 11 15	ا <u>ب</u> ري:	Water	アシングイン	~		Y
MW. 105	() 11 H	1251 6	Water	ナイン			
mw. 103	11 11 13	1346 G	Water	ナナナナ			Po
MC - 106	10 holalon	0745 6	Water	ナナナナ			١
Mw- 102	(i 1 )	Sec. 6	Water	シストナイナ			<u> 19</u>
Quarry Sump	رد د د	09.30	Water	プライナイグ	<i>(</i> )		<u>'</u>
Guarrie Dischare	11100	oure c	Water	ルバードブー	2		, L
Possible Hazard Identification	ison B	Radiological	nical	Sample Disposal ( A fee may b	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	ed longer than 1 month) Months	
sted: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:	ients:		19
Empty Kit Relinquished by:	Date:	e:		Time:	Method of Shipment:		
Relinquished by:	Date/The //	3)	Company		11CC CEPTINE:		,
Relinquished by Meuro	Date/Time: / クソ	12:17	Company	,	Date/Tipe: [a] A	Grei	,
	Date/fime: '		Company			Company	
Custody Seals Intact: Custody Seal No.:  Δ Yes Δ No				Cooler Temperature(s) °C and Other Remarks:	Remarks:		, , , , , , , , , , , , , , , , , , ,
						Ver: 05/06/2024	1



PROJECT NAME:	DTE CCR SQLF 2SA24 Verification
PROJECT NUMBER:	553931.0002.0000
PROJECT MANAGER:	Vincent Buening
SITE LOCATION:	803 Fort Street Trenton MI, 48183
DATES OF FIELDWORK:	12/5/2024
PURPOSE OF FIELDWORK:	Semiannual Verification CCR GW Monitoring Event
WORK PERFORMED BY:	Andrew Whaley



### **GENERAL NOTES**

PROJECT NAME:	DTE CCR SQLF 2SA2	4 Verifica	DATE: 12-05-20	DZ((	TIME ARRIV	/ED:0800		
PROJECT NUMBER:	553931.0002.00	000	AUTHOR: AW		TIME LEFT:			
		V	VEATHER					
TEMPERATURE: 20	°F WIND:	5-15	MPH	VISIBILITY:	Clear			
	WO	RK / SAN	IPLING PERFORMED					
Sign in	et sob trai	ler						
Sample Man	-107 and N	1 20 - 10	× A			, 1		
Du	P-01)	(DUP-C	2					
					ei,			
PROB	LEMS ENCOUNTERED	) .	co	RRECTIVE	ACTION TAK	EN		
Bladder pump		-	le Return	20 1	2/6 1-	1.1		
			different	CONFR	of Pox	(inshit		
to reach Sufficient pressure different control box. Chosn't to bring up water at MW102 available at time of sampling								
to bring up water at MW102 available at time of sampling due to depth of water								
	COMMUNICATION							
NAME	REPRESENTING			CT / COMME	NTS			
Vincent Buening	TRC	Project 1	Manager / Updates					
Bob Haske	DTE	Site Cor	ntact: 734-716-3142 (Ce	ell)				
	INVESTIG	ΑΤΙΟΝ Π	ERIVED WASTE SUMN	MARY				
WASTE MATRIX	QUANTITY	THE REPORT OF THE PERSON OF TH		OMMENTS				
GW	NM	To Grou	and					
			<u> </u>					
_								
	<u> </u>	-	$\bigwedge$	0 .1				
Coller 11	/m/ 12	-6-21	1 10	Guile	<u>ر</u>	12/9/14		
SIGNED	<del>V.X</del>	DATE	CHECKED			DATE		



### **GENERAL NOTES**

PROJECT NAME:	DTE CCR SQLF 2SA2	24 Verifica D	ATE: 12-6	-24	TIME ARRIVED 0700		
PROJECT NUMBER:			UTHOR: AW		TIME LEFT: 08:15		
View Mil							
		. WE	ATHER				
TEMPERATURE: 2(	°F WIND:	5-10	MPH	VISIBILITY	Overcost - snow		
	W	ORK / SAMP	LING PERFOR	RMED			
Check in	a job travie	<u>-</u> -					
Calibrate:	Ins:tu						
Sample N	NW-102						
Sandas las	ivered to C	-1 00		110			
simples all	ivered to c	<u>as</u> Sc	rvice i	enter			
10111	BLEMS ENCOUNTERE	D		CORRECTIVE	ACTION TAKEN		
None							
		20111	UNICATION				
NAME	REPRESENTING	COIVIIVI	UNICATION	SUBJECT / COMME	NTS		
Vincent Buening	TRC	Project M	nager / Updates				
Bob Haske	DTE	1	act: 734-716-31				
				- (- )			
			-				
	INVESTI	GATION DE	RIVED WASTE	SUMMARY			
WASTE MATRIX	QUANTITY		THE WATER	COMMENTS	<u></u>		
GW	NM	To Groun	ıd				
				Λ			
/ /			1		NIAIAII		
Calm VM	12-6	-24		White	14/9/14		
SIGNED	r	DATE	CHE	CKED BY	DATE		



### **EQUIPMENT SUMMARY**

PROJECT NAME:	DTE CCR S	SQLF 2SA24 Veri	i SAMPLER NAME: Andrew Whaley						
PROJECT NO.:	553931.000	02.0000	OAWII LEIVINAINIE. Allulew Wildley						
WATER LEVEL MEASU	PREMENTS COLL	ECTED WITH:							
HEF	RON DIPPER-T		PROJECT DEDICATED						
NAME AND MODEL OF IN	ISTRUMENT		SERIAL NUMBER (IF APPLICABLE)						
PRODUCT LEVEL MEA	SUREMENTS CO	DLLECTED WITH	:						
	NA		NA						
NAME AND MODEL OF IN	ISTRUMENT		SERIAL NUMBER (IF APPLICABLE)						
DEPTH TO BOTTOM O	F WELL MEASUR	REMENTS COLLE	ECTED WITH:						
	NA		NA						
NAME AND MODEL OF IN	ISTRUMENT		SERIAL NUMBER (IF APPLICABLE)						
PURGING METHOD									
BLADDER	PUMP (DEDICAT	ED)	PROJECT DEDICATED						
NAME AND MODEL OF P	UMP OR TYPE OF	BAILER	SERIAL NUMBER (IF APPLICABLE)						
SAMPLING METHOD									
BLADDER	PUMP (DEDICAT	ED)	PROJECT DEDICATED						
NAME AND MODEL OF P	UMP OR TYPE OF	BAILER	SERIAL NUMBER (IF APPLICABLE)						
	NA		NA						
NAME AND MODEL OF F	ILTERATION DEVIC	CE	FILTER TYPE AND SIZE						
DEDICA	TED POLY TUBIN	NG	✓ LOW-FLOW SAMPLING EVENT						
TUBING TYPE			-						
PURGE WATER DISPO	SAL METHOD								
✓ GROUND	☐ DRUM	POTW	☐ POLYTANK ☐ OTHER						
DECONTAMINATION A	ND FIELD BLAN	K WATER SOUR	CE						
ST	ORE BOUGHT		STORE BOUGHT						
POTABLE WATER SOUR	CE //		DI WATER SOURCE						
SIGNED VI	ling	12-6-24 DATE	CHECKED BY DATE						

## → TRC

### WATER QUALITY METER CALIBRATION LOG

			MODEL VOLDEDOS CAMPLED AVAI							
PROJECT NAME:	DTE CCR SQLF 2SA24 Ver	ification		MODEL: YSI ProDSS			SAMPLER	:	AW	
PROJECT NO.:	553931,0002.0000			SERIAL #	#: RENTA	\L 	DATE:	12-	5-24	
PH (	CALIBRATION CHECK			•	SPE	CIFIC CONDU	CTIVITY	CALIBR	ATION C	HECK
pH 7	pH 4 / 10			]	CAL, F	READING	TEMPER	ATURE	. "	
(LOT #): 468 1040	(LOT #): UCH1156	CAL.	TIME		(LOT#): 40			٠	CAL.	TIME
(EXP. DATE): UZ	(EXP. DATE): 8126	RANGE	*****		(EXP. DATE):		(°CELS	IUS)	RANGE	
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD			<u> </u>		ADING / STANDARD			WITHIN 🚺	
7.00 / 7.00	4.00 14.00		0814		1330	11330	22.0	1	RANGE	3P17
/	1	WITHIN RANGE	`			1			WITHIN RANGE	
1	1	WITHIN RANGE		]		1			WITHIN RANGE	
1	1	WITHIN RANGE				1			WITHIN RANGE	
ORP	CALIBRATION CHECK	101102	l	1		D.O. CAL	IBRATION	N CHEC		
CAL. READING	TEMPERATURE			]	CAL. F	READING	TEMPER	ATURE		
(LOT #): 4 61 1619	(°CELSIUS)	CAL.	TIME						CAL.	TIME
(EXP. DATE): 1125	( 0220/00)	RANGE	''''-		-		(°CELS	iUS)	RANGE	
POST-CAL. READING / STANDARD		Γ <b>Ψ</b> 1		4		ING /SATURATED AIR			<b>☑</b> within	
220 /220	25.08	WITHIN RANGE	24C	4	8.22	12.55	24	۵.	T RANGE	O\$26
/		☐ WITHIN RANGE		]		1			WITHIN RANGE	
/		☐ WITHIN RANGE				1			☐ WITHIN RANGE	
1		WITHIN RANGE		1		1			WITHIN RANGE	
TURBID	_			COMME	NTS		I			
CALIBRATION	READING (NTU)			7	AUTOCA	L SOLUTION	✓ STA	ANDARD	SOLUTION	(S)
(LOT #):	(LOT #): 24 E 24011494	CAL.	TIME		(LOT #):				ND EXPIRAT	
(EXP. DATE):	(EXP. DATE): 5 25	RANGE	'		(EXP. DATE):				RATION CHE	
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD	WITHIN		4		D PARAMETERS	+		ON RANGES	
0 10	100 100	RANGE	12.8°	Ф			pH:	+/- 0.2 S.U	J.	
	./	WITHIN				DND	COND:	+/- 1% OF	CAL. STAN	NDARD
1	1	WITHIN RANGE				₹P	ORP:	+/- 25 mV	•	
1	1	WITHIN RANGE		1	D.	0.	D.O.:	VARIES		
	NOTES	1	·	-J	🗆 ти	JRB	TURB:	+/- 5% OF	CAL. STAN	NDARD
None										
None									IGES ARE SF VATER QUAL	
				_			.]			
F	PROBLEMS ENCOUNTERED					CORRECT	IVE ACTIONS			
				<del>                                     </del>						
				-						
L						<u> </u>				
	0 -					1/100			10 10	1/211
Calle U/h	m 12-6-2	4	-		A	· WYC	we		101	11 0
SIGNED	•	DATE			CHECK	ED BY				DATE



### WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE CCR SQLF 2SA24 Ver	ification	MODEL: IN-SITU AQUATROLL 600	SAMPLER: AW
PROJECT NO.:	553931.0002.0000		SERIAL#: TRC A2	DATE: 12-6-24
PH	CALIBRATION CHECK		SPECIFIC CONDIT	CTIVITY CALIBRATION CHECK
PH 7 (LOT #): YGB (QUO (EXP. DATE): 2/26	PH (2) 10 (LOT #): <b>UGH (1 56</b> (EXP. DATE): 8126	CAL. TIME	CAL. READING (LOT #): 461172 (EXP. DATE): \$12.5 POST-CAL. READING / STANDARD	TEMPERATURE CAL. (*CELSIUS) RANGE TIME
POST-CAL. READING/STANDARD	POST-CAL READING/STANDARD	MITHIN RANGE	POST-CAL. READING? STANDARD	10.07 X WITHIN RANGE 0714
. /	1	WITHIN RANGE WITHIN RANGE	/	WITHIN RANGE
1	1	WITHIN	,	WITHIN
ORP	CALIBRATION CHECK	IVANGE	D.O. CAL	IBRATION CHECK
CAL. READING	TEMPERATURE		CAL. READING	TEMPERATURE
(LOT #): (EXP. DATE):  POST-CAL. READING / STANDARD	(°CELSIUS)	CAL. RANGE TIME	POST-CAL. READING /SATURATED AIR	(°CELSIUS) CAL. RANGE TIME
	10.18	WITHIN 717	11.05 / 11.05	WITHIN
Z31,2 /231.2	10:13	RANGE LL	/ /	10.80 A RANGE 721
1		WITHIN RANGE	/	WITHIN RANGE
1		WITHIN RANGE		WITHIN RANGE
	DITY CALIBRATION CHEC	K	1	COMMENTS
(LOT #): (EXP. DATE):	(LOT #): 24 FZ46189 (EXP. DATE): 5/25	CAL. TIME	(LOT #):  (EXP. DATE):	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
POST-CAL. READING / STANDARD			CALIBRATED PARAMETERS	CALIBRATION RANGES (1)
O 1.0	124 124	WITHIN RANGE 725	PH □ pH	pH: +/- 0.2 S.U.
1	/	WITHIN	COND	COND: +/- 1% OF CAL. STANDARD
/	/	WITHIN	│	ORP: +/- 25 mV
	1	WITHIN RANGE		D.O.: VARIES
	NOTES		TURB	TURB: +/- 5% OF CAL. STANDARD
None				(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
	PROBLEMS ENCOUNTERED		CORRECT	IVE ACTIONS
SIGNED	why 1	<u>2-6-24</u> DATE	CHECKED BY	l 12/9/124

## 

	PROJECT	NAME:	DTE C	CR SQLF 2	6A24 Verific		PREF	PARED			CHEC	KED
	PROJECT	NUMBER	:: <b>55</b> 393′	1.0002.0000		BY:	ΑŴ	DATE 12 1	G-24 E	3Y: 1	6	DATE: \2/9/24
Ī	SAMPLE I	D: <b>M</b> \	W-10	2	WELL	DIAME	ΓER:	<b>√</b> 4" □	6"	OTHER		
j	WELL MAT	ERIAL:	☐ PVC	√ss [	] IRON [	GALVA	NIZED STE	EEL		OTHER		
	SAMPLE T	YPE:	☑ GW	□ ww [	]sw [	] DI	LE	ACHATE		OTHER		
[	PURG			<u> </u>	DATE:/2 -		<del>                                     </del>	MPLE		7:57		TE12-6-24
	PURGE METHOD	. —	PUMP BAILER	BLADDER PU	JMP (DEDIC	ATED)	PH: <b>(</b> g.		U CON		TY: <u>185</u> , 9 mg	umhos/cm
	DEPTH TO	WATER:	247.11	T/ PVC			TURBIDIT	гу: <u>1.4</u>	Z_ NTU			maranga, maranga karabanga mbaharan pang 1-1 majarah kanasanda karaba <del>n manandara</del>
	DEPTH TO	воттом	NM	T/ PVC			NONE	SLI	GHT	МОГ	DERATE	☐ VERY
	WELL VOL	UME:	NM	LITERS	GALL		TEMPERA	ATURE: 10	<u>.73 °</u>	с отн	IER:	
.	VOLUME F	REMOVED:	30_	✓ LITERS	GALL		COLOR:	llea	<u>W</u>	ODC	DR:	None
	COLOR:		1eus		DOR: NO	ne	FILTRATE	(0.45 um)	YES		NO	
				BIDITY			_	COLOR: NA			TRATE ODC	R: NA
	NONE			MODERATE		ERY	QC SAME		/MSD		DUP-	
Į	DISPOSAL	.METHOD:	✓ GROUN	ID DRUI	и 🗌 отне	R	COMMEN	NTS:				
,	TIME	PURGE RATE (ML/MIN)	6.5 <sup>PH</sup> (SU)	CONDUCTIVIT		l	D.O. (mg/L)	TURBIDITY (NTU)		RATURE C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
77:42	A 701	200	6.52	13672	116.5	_	·UC	2.86			247.11	INITIAL
74.19	07:47	-4	1	1360.	_	1 4	1/1	7 11	10		1	1.0
	27.2		(0.10)	1360.9			.24	0,75		64 (		2.0
f	07/57	- <b>U</b> -(	6.75	1358.0		.6 0		1.42		, 73	4	3.0
	١٠٥١ (		w. 19	1930.0	<u> </u>	*Ø   O	. 0 7	1176		<i>,</i> 10		J#
		***************************************									***************************************	-
		~~						and the state of t				
										r Samurana, generyskyczy a nasonanskim i arr		
								migumin e distription de la company de la co			namin marcon trees and motor secure	and the second section of the
-								TAME OF THE WINDOWS STREET, ST		~~~~		
	NO	TE: STABII	LIZATION T	EST IS COM	PLETE WHE	EN 3 SUC	CCESSIVE I	READINGS A	ARE WIT	HIN THE	FOLLOWIN	IG LIMITS:
	pH: +/-	0.1	COND.: +/-	<b>10</b> % OR	P: +/- <b>N</b> A	D.O.	.: +/- <b>NA</b>	TURB: +/-	10 %	or =</td <td>5</td> <td>TEMP.: +/- 0.5°C</td>	5	TEMP.: +/- 0.5°C
	BOTTLES	FILLED	PRESERV	ATIVE CODE	S A - NONI	Е В	- HNO3	C - H2SO4	D - 1	NaOH	E - HC	L F
	NUMBER	SIZE	TYPE	PRESERVA	TIVE FIL	TERED	NUMBER	SIZE	TYP	E PR	ESERVATI	VE FILTERED
		500mL	PLASTIC	А	□ Y	N						□Y □N
		500mL	PLASTIC	В	ΠY	IJ N		***************************************			territorian due, e gant divini, na Juant divini	□Y □N
		***************************************	*****	A Labor Lancescon Consequence of the special section of the sectio	ΠY	_ N					- Pilled Brands, John Brandski, Kalani, 1 - Ad Myses	□Y □N
				yn magantain a'r dy' arll Wei y Elech del yn y gell ac ben en		N			No. of American Street Street Street			N Q Y
						. □ N					**************************************	
	SHIPPING	METHOD:	T _1_ T		DATE SHIPI			1,	ΔIRI	BILL NUM	IBER:	
			Lab L		-		12-6-2 A Who	·Y			CONTRACTOR AND ADDRESS OF THE PARTY.	2 /
	COC NUME	⊃⊏ <b>K</b> .			SIGNATURE	<u> </u>	4. Uhr	w <sub>S</sub>	. DAT	E SIGNE	<u>. 1</u>	2-6-24

## → TRC

PROJECT	NAME:	DTE C	CR SQLF 2	2SA24 Verifica		PRE	PARED			СН	ECKED
PROJECT	NUMBER	R: 55393°	1.0002.000	0	BY:	AW	DATE: 12	-5-24	BY:	16	DATE: 12/01/14
SAMPLE	D: M	w-10.	7	WELL	DIAMET	ER: 🔲 2	2" 🗸 4" 🗌	] 6" [	OTHER		
WELL MAT	ERIAL:	PVC	✓ ss	☐ IRON ☐	GALVA	NIZED ST	reel		OTHER		
SAMPLE T	/PE:	☑ GW	□ ww □	□ sw □	DI -		EACHATE		OTHER		
PURG	SING	TIME:04	17	DATE: 12 - 5	-24		MPLE		0942		DATE/2-5-24
PURGE METHOD		PUMP BAILER	BLADDER F	PUMP (DEDICA	ATED)	***************************************	<u>6.94</u> s -334.2 n			VITY: <u>3</u> .02_	mg/L umhos/cm
DEPTH TO	WATER:	152.20	ー ) PVC			TURBID	ITY: <b>4.5</b>	<b>5</b> NT			
DEPTH TO		100 4	T/ PVC			МОИ 🔯		IGHT		DDERAT	E VERY
WELL VOL	JME:	NA	LITERS	GALLC	NS	TEMPER	RATURE:	00	_°с  от	HER:	M =
VOLUME F	REMOVED	7.5	✓ LITERS	GALLO	NS	COLOR	Tinkel	blach	00	OOR:	Moderate
COLOR:	Lle	ar		ODOR: Mo	derat	<b>≇IL</b> TRAT	E (0.45 um)	☐ YE	s 🔽	] NO	
			BIDITY	110		FILTRAT	E COLOR: NA	١	FI	LTRATE	ODOR: NA
NONE	☐ SL		MODERATE	E UE	RY		IPLE: MS			DUP-	
DISPOSAL	METHOD	GROUN	ND 🗌 DRI	JM 🔲 OTHER	₹	СОММЕ	ENTS: Buil	40.4	ON	probe	from edoes of
TIME	PURGE RATE	6.5 PH	CONDUCTIV			D.O.	TURBIDITY	TEMP	ERATURE	WAT	ER CUMULATIVE EL PURGE VOLUME
	(ML/MIN)	(SU)	(umhos/cn	<del> </del>		mg/L)	(NTU)	ļ	(°C)	(FEE	
0917	300	6.16	31,600	1 -6.	7 4	.40	2.27	<u>ځ</u> ـ	_3	133	.2¢ INITIAL
0922		6.49	1539	-260.	40	.50	3. 25	4	, ح		1.5
0927	1	6.83	32,58	3-304	90.	. 16	9.07	ic	2.7		3.0
0932			35370	0 -320.	7 0.	,05	r. 76	10	.4		4.5
0937		6.44	35,52		1		4.23	1	, Z		6.0
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# **Chain of Custody Record**

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## Appendix C Data Quality Reviews

## Laboratory Data Quality Review Groundwater Monitoring Event April 2024 (Detection Monitoring) DTE Electric Company Sibley Quarry Landfill (DTE SQLF)

Groundwater samples were collected by TRC for the April 2024 sampling event. Samples were analyzed for anions, total metals, and total dissolved solids by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory reports 240-202632-1 and 240-202632-2.

During the April 2024 sampling event, a groundwater sample was collected from each of the following wells:

•	MW-101	•	MW-102	•	MW-103
•	MW-104	-	MW-105	•	MW-106
•	MW-107	-	MW-108A	•	QUARRY SUMP
•	QUARRY DISCHARGE	•		-	

Each sample was analyzed for one or more of the following constituents:

Analyte Group	Method
Anions (Chloride, Fluoride, Sulfate)	SW846 9056A
Total Boron	SW846 3005A/6010D
Total Arsenic, Calcium, and/or Iron	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 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 as well as iron and arsenic 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**

- Target analytes were not detected in the method blanks.
- An equipment blank and field blank were not submitted with this data set.
- MS/MSD analyses were performed on sample MW-101 for total boron, calcium, and iron. The percent recovery for calcium in the MS was below the acceptance limits. However, the result for calcium in the parent sample was >4x the spike concentration; therefore, this is no impact on data usability due to this issue.
- A laboratory duplicate analysis was performed on sample MW-106 for TDS. The relative percent difference (RPD) met the acceptance criteria.
- Samples DUP-01/MW-105 were submitted as a field duplicate pair with this data set; all criteria were met.
- Boron was reported with an RL (100 µg/L) lower than required in the QAPP (200 µg/L).
   Boron was detected in sample MW-102 (120 µg/L) below the QAPP-specified RL.

## Laboratory Data Quality Review Groundwater Monitoring Event October 2024 (Detection Monitoring) DTE Electric Company Sibley Quarry Landfill (DTE SQLF)

Groundwater samples were collected by TRC for the October 2024 sampling event. Samples were analyzed for anions, total metals, and total dissolved solids by Eurofins Environment Testing America (Eurofins), located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-212734-1.

During the October 2024 sampling event, a groundwater sample was collected from each of the following wells:

MW-101
 MW-102
 MW-103
 MW-105
 MW-106

■ MW-107 ■ MW-108A ■ QUARRY SUMP

QUARRY DISCHARGE

Each sample was analyzed for the following constituents:

Analyte Group	Method
Anions (Chloride, Fluoride, Sulfate)	SW846 9056A
Total Boron	SW846 3005A/6010D
Total Calcium and Iron	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 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 as well as iron 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**

- Target analytes were not detected in the method blanks.
- An equipment blank and field blank were not submitted with this data set.
- MS/MSD analyses were performed on sample MW-108A for total calcium and iron. The percent recovery for calcium in the MS was below the acceptance limits. However, the result for calcium in the parent sample was >4x the spike concentration; therefore, there is no impact on data usability due to this issue.
- Laboratory duplicate analysis was performed on sample MW-102 for TDS. The relative percent difference (RPD) met the acceptance criteria.
- Samples DUP-01/MW-108A were submitted as the field duplicate pair with this data set; all criteria were met with the following exception:
  - The RPD for TDS in samples DUP-01 and MW-108A was above 30%. Therefore, the
    positive results for TDS in all groundwater samples in this data set should be
    considered estimated, as summarized in the attached table, Attachment A.
- Boron was reported with an RL (100 μg/L) lower than the QAPP-specified RL (200 μg/L). Boron was detected in sample MW-102 (130 μg/L) below the QAPP-specified RL.

•	The nondetect RL for fluoride in sample MW-107 (5.0 mg/L) was higher than the QAPP-specific RL (0.05 mg/L) due to dilution required due to sample matrix (i.e., elevated concentrations of chloride and sulfate).

#### Attachment A

### Summary of Data Non-Conformances for Groundwater Analytical Data CCR DTE Sibley Quarry Trenton, Michigan

Samples	Collection Date	Analyte	Non-Conformance/Issue
MW-108A	10/7/2024	TDS	Field duplicate variability (relative percent difference greater than acceptance criteria); potential uncertainty exists for the listed results.
DUP-01			
MW-104			
MW-101			
MW-107			
MW-105			
MW-103			
MW-106	10/8/2024		
MW-102			
QUARRY SUMP			
QUARRY DISCHARGE			

## Laboratory Data Quality Review Groundwater Monitoring Event December 2024 (Detection Verification Monitoring) DTE Electric Company Sibley Quarry Landfill (DTE SQLF)

Groundwater samples were collected by TRC for the December 2024 sampling event. Samples were analyzed for total calcium and iron and/or total dissolved solids by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-216225-1.

During the December 2024 verification event, a groundwater sample was collected from each of the following wells:

■ MW-102 ■ MW-107 ■ MW-108A

Each sample was analyzed for one or more of the following constituents:

Analyte Group	Method
Total Calcium and Iron	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 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 as well as iron 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**

- Target analytes were not detected in the method blanks.
- An equipment blank and field blank were not submitted with this data set.
- LCS recoveries for all target analytes were within laboratory control limits.
- MS/MSD and laboratory duplicate analyses were not performed on a sample from this data set.
- Samples DUP-01/MW-107 and DUP-02/MW-108A were submitted as the field duplicate pairs with this data set; all criteria were met with the following exception:
  - In field duplicate pair DUP-01/MW-107, the result for iron was <5x the RL in the parent sample (MW-107) and was >5x the RL in the duplicate sample (DUP-01); the absolute difference (180  $\mu$ g/L) was greater than the RL (100  $\mu$ g/L). Therefore, the positive results for iron should be considered estimated in samples MW-102, MW-107, and DUP-01, as summarized in the attached table, Attachment A.

#### Attachment A

Summary of Data Non-Conformances for Groundwater Analytical Data CCR DTE Sibley Quarry Trenton, Michigan

Samples	Collection Date	Analyte	Non-Conformance/Issue
MW-102	12/6/2024		Field duplicate variability (one result <5x the reporting limit [RL] and other result > 5x the RL; absolute difference
MW-107	12/5/2024	Iron	,
DUP-01	12/5/2024		greater than the RL); potential uncertainty exists for the listed results.